Wednesday, April 22, 2026
Plan Commission Regular Meeting Agenda

PUBLIC NOTICE - in accordance with the applicable statutes of the state of Illinois and Ordinances of the Village of Wheeling, notice is hereby given that the Regular Meeting of the Wheeling Plan Commission will be held in the Board Room, Wheeling Village Hall, 2 Community Boulevard, Wheeling, Illinois, at 6:30 PM, during which meeting it is anticipated there will be discussion and consideration of and, if so determined, action upon the matters contained in the following agenda:

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Roll Call**
4. **Changes to the Agenda**
5. **Citizen Concerns and Comments**
6. **Consent Items**
7. **Items for Review**

   A. Docket No. PV25-0016, Request for a Variation to Reduce the Front Yard Setback From 25 feet to 9 Feet on the North Property Line Associated with the Construction of a 6' Tall Fence (157 W. Jeffery Avenue). **PUBLIC HEARING**

   B. Docket No. PSU26-0003, Request to Amend Ordinance No. 3665, Which Granted Special Use and Site Plan Approval for a Public Park to the Wheeling Park District, Associated with the Reconstruction of the Wheeling Aquatics Center Facility (105 Community Boulevard). **PUBLIC HEARING**

   C. Docket No. PV26-0006, Request for a Variation to Reduce the Minimum Required Number of Parking Spaces from 356 Spaces to 192 Spaces Associated with the Redevelopment of the Wheeling Aquatics Center (105 Community Boulevard). **PUBLIC HEARING**

   D. Docket No. PV26-0007, Request for a Variation to Increase the Uniformity (Avg/Min) Lighting Level from 4:1 to 6:1 Associated with the Redevelopment of the Wheeling Aquatics Center (105 Community Boulevard). **PUBLIC HEARING**

   E. Docket No. PSPMAJ26-0006, Request for Major Site Plan and Building Appearance Approval for the Construction of the Wheeling Park District Aquatics Center and Associated Site Improvements (105 Community Boulevard).

   F. Docket No. PV25-0015, Request for a Variation to Reduce the Minimum Required Side Yard Setback on the North Property Line From 15 Feet to 0.5 Feet for Construction of Ground-Mounted Equipment Associated with a Proposed Rooftop Solar Collection System for Cubsemart, L.P. (1004 S. Milwaukee Avenue). **PUBLIC HEARING**

   G. Docket No. PV26-0008, Request for a Variation to Reduce the Minimum Required Front Yard Setback Along Milwaukee Avenue from 25 Feet to 4.7 Feet for the Installation of a 40-Foot-Tall Utility Pole Associated with a Proposed Roof Top Solar Collection System for Cubesmart, L.P. (1004 S. Milwaukee Avenue). **PUBLIC HEARING**

H. Docket No. PSPMIN26-0004, Request for Minor Site Plan and Appearance Approval for Construction of Ground-Mounted Equipment Associated with a Proposed Rooftop Solar Collection System for Cubsemart, L.P. (1004 S. Milwaukee Avenue).

I. Docket No. PV25-0014, Request for a Variation to Reduce the Minimum Sideyard Setback from 25 Feet to 8.4 Feet for Construction of Ground-Mounted Equipment Associated with a Proposed Rooftop Solar Collection System for Cubsemart, L.P. (1042 S. Milwaukee Avenue). **PUBLIC HEARING**

J. Docket No. PSPMIN26-0005, Request for Minor Site Plan and Appearance Approval for Construction of Ground-Mounted Equipment Associated with the Installation of a Proposed Rooftop Solar Collection System for Cubsemart, L.P. (1042 S. Milwaukee Avenue).

K. Docket No. PV26-0005, Request for a Variation to Increase the Maximum Fence Height Associated with Facility Upgrades for the Village of Wheeling (77 W. Hintz. Rd.). **PUBLIC HEARING**

L. Docket No. PSPMIN26-0003, Request for Minor Site Plan Approval for Facility Upgrades and Related Site Improvements to the Vehicle Fueling Area for the Village of Wheeling (77 W. Hintz. Rd.).

8. **Approval of Minutes**

A. Approval of Minutes of the Regular Meeting of March 11, 2026 (including the Findings of Fact for Docket No's. PSU25-0012, PV26-0003 and PV26-0004) and March 25, 2026 (including the Findings of Fact for Docket No. PSU25-0004).

9. **Other Business**

10. **Adjournment**

This meeting will be televised on channels 17 and 99. If you would like to attend a Village meeting but require an auxiliary aid such as a sign language interpreter, call 847-499-9085 AT LEAST 72 HOURS PRIOR TO THE MEETING. To view the full agenda packet, visit https://wheelingil.portal.civicclerk.com/.

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PV25-0016, Request for a Variation to Reduce the Front Yard Setback From 25 feet to 9 Feet on the North Property Line Associated with the Construction of a 6' Tall Fence (157 W. Jeffery Avenue). **PUBLIC HEARING**
RECOMMENDED ACTION: **Recommend approval of Docket No. PV25-0016** granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections, to permit the installation of a six-foot tall fence to encroach sixteen (16) feet into the required front yard setback along W. Jeffery Avenue for the property located at 157 W. Jeffery Avenue, in accordance with the Plat of Survey provided by the petitioner and subject to the following:

1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence. Upon demonstration of compliance with all Village regulations, the building permit shall be issued upon payment by the petitioner in which the building permit fee shall be doubled pursuant to the Schedule of Village Fees and Charges.

EXECUTIVE SUMMARY

PUBLIC HEARING INFORMATION
Docket No. PV25-0016: Mohammed Khan (representative for the property owner of 157 W. Jeffery Avenue, Wheeling, IL 60090), is seeking a variation to permit the installation of a six-foot tall fence to encroach sixteen feet into the required front yard building setback along W. Jeffery Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District, and associated sections.

GENERAL PROPERTY INFORMATION
Applicant: Mohammed Khan (representative for property owner)

Property size: 7,885 sq. ft.

Neighboring Property Land Use(s):
North: W. Jeffery Avenue (Single Family Residential across W. Jeffery Ave.)
West: Jeanne Terrace (Single Family Residential across Jeanne Terrace)
South/East: Single Family Residential

Existing Use of Property: Single family home

Existing Zoning: R-3A, Single Family Residential

Comprehensive Plan Designation: Residential

Zoning History:

- Ordinance 5696, approved November 4, 2024, granting a variation to permit a reduction in the minimum

required front setback from 25 feet to 9 feet on the north property line for the installation of a six foot tall privacy fence (Docket No. PV24-0011)

SUMMARY OF REQUEST

Mohammed Khan, representative for the property owner, is seeking a variation to permit the installation of a six-foot tall fence at the northeast corner of the subject property. The proposed fence would encroach sixteen feet into the required front yard setback along W. Jeffery Avenue, reducing the minimum required setback from 25 feet to 9 feet, which the Wheeling Zoning Code requires a maximum four foot tall fence within the front yard.

VARIANCE ANALYSIS

A Variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

The petitioner obtained a variation (Docket No. 5696, approved November 4, 2024) to permit the installation of a six-foot tall fence encroaching into the required front yard setback along W. Jeffery Avenue. The approved variation reduced the required setback from 25 feet to 9 feet. As part of that approval, the Plan Commission and Village Board imposed a condition requiring the fence to be angled at the point where it abuts the adjacent property to the east. This condition was specifically intended to preserve adequate sight distance for vehicles and pedestrians and to mitigate potential impacts on the neighboring driveway.

Subsequently, the petitioner obtained a building permit on November 7, 2024 and installed the fence in full conformance with the approved variance, including the required angled section. Following installation, the petitioner requested staff authorization to remove the angled portion of the fence and reconstruct that segment to run parallel with W. Jeffery Avenue. Staff advised the petitioner that such modification was not permitted by the conditions of the authorizing variance Ordinance No. 5696 and the approved permit. Notwithstanding, the petitioner proceeded to remove the required angled fence section and reconstruct the fence in violation of the authorizing Ordinance and permit. As a result, the property was subsequently issued a citation for violation of the Village Code.

The petitioner is now requesting a variation to allow the non-permitted fence segment to remain, without the angled configuration required by Ordinance No. 5696. Staff's review of this request has determined that no such conditions of the subject site have changed preventing the petitioner from complying with the granted variation ordinance and the imposed condition. Moreover, the fact that the petitioner initially installed the fence in full compliance with Ordinance No. 5696 and all conditions, demonstrates that there is no unique or physical hardship in complying with the granted variance. The angled fence condition was a critical component of the original variation, intended to maintain visibility at the driveway immediately east of the subject property thus not endangering the public safety – as required by the standards for variance. Removal of the angled section results in a continuous fence line parallel to W. Jeffery Avenue, which creates a visibility obstruction for both vehicles exiting the adjacent driveway and pedestrians traveling along the public sidewalk.

Based on the foregoing, staff finds that the proposed modification undermines the intent of the original approved variance and creates a public safety hazard. Therefore, staff does not support the requested variation and recommends denial of this request.

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request. (Any staff comments follow the petitioner's response)

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.**

   Applicant: My hardship is that we live on a property with two front yards, with a very small rear yard.

   Staff: Under the prior variation petition, the Commission determined the site presented particular conditions that justified the installation of a six-foot tall privacy fence to encroach 16 feet into the front yard setback along Jeffery Avenue. However, in order for the fence not to be injurious to the public safety, the Commission required the fence be modified to angle at the point where it abuts the adjacent property to the east. Since the

granting of the variation by Ordinance No. 5696, the physical surroundings, shape, or topographical conditions of the subject site have not changed; as such, strict application of the Code does not result in a hardship in this property in complying with the authorizing variance Ordinance, but rather a mere inconvenience.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other properties or uses.**

   Applicant: This is a unique situation only to corner lots in certain configurations.

   Staff: The condition described by the applicant is not unique, as corner lots with dual front yard setbacks exist throughout the Village. The subject property does not exhibit any added unusual physical characteristics, such as irregular shape or topographical constraints, from that of the initial variation granted by Ordinance No. 5696. Therefore, no unique circumstances have been identified.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**

   Applicant: We did not own the property when the lot was created.

   Staff: While the lot configuration predates the current ownership, the petitioner previously obtained a variation to reduce the required setback from 25 feet to 9 feet, subject to specific conditions, including the angled fence requirement. The current hardship arises from the petitioner's decision to deviate from the approved plans and reconstruct the fence without the Village approvals. As a result, the hardship is self-imposed.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**

   Applicant: My grandkids do come here often. My grandkids and we are deaf. We use American Sign Language as communication each other. 25 ft setback fence would help to protect us because we are deaf and avoid any misunderstood with language we use while go to backyard to play.

   Staff: The property is currently improved with a single-family residence and will continue to function as such regardless of the requested variation. The previously approved fence configuration allows for an acceptable level of privacy and usability of the yard that was permitted to extend beyond the strict letter of the fence regulations. The requested variation is not necessary for the property to yield a reasonable return or to be used in a manner consistent with permitted residential uses.

5. **State how the granting of the variation will not alter the essential character of the locality.**

   Applicant: The fence will only encroach 8 feet into the 25 foot setback and will not alter the essential character of the area.

   Staff: To clarify applicant's response, the requested variance would allow the additional fence to encroach approximately 9 feet into the required 25-foot front yard setback. Additionally, such relief has been granted subject to the angled fence section, in part to prevent negatively impacting the character of the immediate area and use of the neighboring property.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.**

   Applicant: The fence will only encroach 8 feet into the 25 ft setback and will not alter the essential character of the area.

   Staff: The granting of the petitioner's previous fence variation to allow for reduction in the front yard setback was subject to the condition imposed by the Commission that the fence be angled at the point where it abuts the adjacent property to the east so that the fence would not be injurious to the public safety. The petitioner's self-elimination of the angled fence section creates a visibility obstruction for vehicles exiting the adjacent driveway and pedestrians along the sidewalk. The Commission's condition of Ordinance No. 5696 addresses

legitimate public safety concerns of the neighborhood. Accordingly, the requested variation is not consistent with the intent of the Code and may endanger public safety.

STAFF REVIEW

Fire Prevention Bureau Review: The Fire Prevention Bureau does not have any comments at this time.

Engineering Division Review: The Engineering Division does not have any comments at this time.

Staff Recommended Actions: Staff does not recommend approval of the variation to modify the location of the fence at the northeast corner of the property.

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If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of the variation, the appropriate motion would be to:

Recommend approval of Docket No. PV25-0016granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections, to permit the installation of a six-foot tall fence to encroach sixteen (16) feet into the required front yard setback along W. Jeffery Avenue for the property located at 157 W. Jeffery Avenue, in accordance with the Plat of Survey provided by the petitioner and subject to the following:

1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence. Upon demonstration of compliance with all Village regulations, the building permit shall be issued upon payment by the petitioner in which the building permit fee shall be doubled pursuant to the Schedule of Village Fees and Charges.

ATTACHMENTS:

Attachments to Staff Report (Staff)
Plat of Survey submitted by the petitioner
Photo of the Fence Section submitted by the petitioner
Ordinance No. 2024-5696 with Approved Site Plan
Building Permit Plan (November 2024)



LOCATION MAP



ZONING MAP



Aerial Photo



Photo of Existing Fence Facing Southwest from W. Jeffery Ave.



Photo of 157 W. Jeffery Ave. Facing East From W. Jeffery Ave./Jeanne Terr.



Photo of the Side Yard of 157 W. Jeffery Ave. and the Adjacent Sidewalk Facing East From W. Jeffery Ave./Jeanne Terr.



MURRY AND MOODY, LTD.

Land Surveyors

Illinois Professional Land Surveying Firm Corporation License No. 048-000087

933 S. Plum Grove Road Suite 101 Palatine, Illinois 60067

Phone: (847) 358-5960



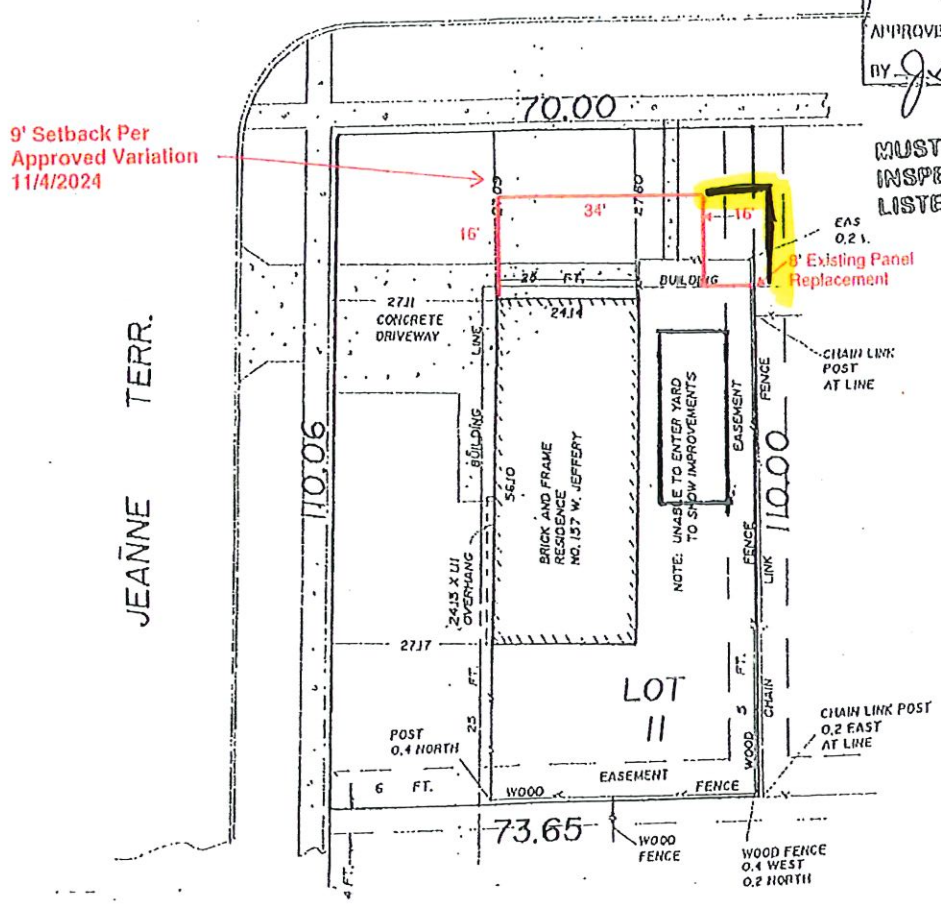
PLAT OF SURVEY

OF

EN (11) IN BLOCK SEVEN (7) IN MEADOWBROOK SUBDIVISION, UNIT NUMBER TWO, A SUBDIVISION OF PART OF THE NORTH HALF (1/2) ON 11, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF REGISTERED FFICE OF THE REGISTRAR OF TITLES OF COOK COUNTY, ILLINOIS, ON OCTOBER 24, 1955, AS DOCUMENT NUMBER 1629537.

VILLAGE OF WHEELING
ENGINEERING DEPARTMENT
JUL. 31 2000
APPROVED FOR brick patio
BY J.S. Mulford Jpd.

MUST CALL FOR INSPECTIONS AS LISTED (ATTACHED).



NOTES

down thus, 50.25 are feet and decimal parts thereof. Angular ins: 90° 00' 00" indicate degrees, minutes and seconds.

00' 00" E indicates measure dimension / bearing.
(90° 00' 00" E) indicates record dimension / bearing.
(90° 00' 00" E d) indicates deed call dimension / bearing.

on hereon, if any, per local or assumed data, unless shown

or points before using same and report any differences

escription with deed or title policy and report any discrepancy

STATE OF ILLINOIS } ss.
COUNTY OF COOK }

I, James C. Colbourne II, an Illinois Professional Land Surveyor do hereby certify that I have surveyed the above, described property, and that the above plat is a correct representation of said survey.

Palatine, Illinois JULY 21, 2001





Docket No. PV24-0011

ORDINANCE NO. 5696

ORDINANCE GRANTING A VARIATION FROM TITLE 19, ZONING, TO PERMIT A REDUCTION IN THE MINIMUM REQUIRED FRONT YARD SETBACK FOR THE INSTALLATION OF A FRONT YARD FENCE, 157 W. JEFFERY AVENUE

WHEREAS, the Plan Commission of the Village of Wheeling held a public hearing, duly noticed in the *Daily Herald* on October 8, 2024, to consider a request for a variation petition by Mohammed Khan, representative for the property owner, as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.010 Residential District General Requirements, and associated sections, to permit a reduction in the minimum required building front yard setback from 25 feet to 9 feet on the north property line, for the installation of a six-foot (6') tall privacy fence for the property located at 157 W. Jeffery Avenue (hereinafter referred to as "Subject Site"), in the R-3A (Single Family Residential) zoning district; and

WHEREAS, the Plan Commission has submitted its Findings of Fact and Recommendation to the President and Board of Trustees, recommending approval, by a vote of 6 ayes and 1 nay, with 0 absent; and

WHEREAS, the President and Board of Trustees deem it to be in the best interest of the Village to grant the petitioner's request for a zoning variation;

NOW THEREFORE BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COUNTIES OF COOK AND LAKE, STATE OF ILLINOIS:

Section A

This Board of Trustees, after considering the Findings of Fact and Recommendation of the Plan Commission and other matters properly before it, hereby finds:

- The particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.
- The hardship is due to unique circumstances that do not generally apply to the other properties or uses.
- The property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.
- The alleged difficulty or hardship has not been created by any person presently having an interest in the property.
- The granting of the variation will not alter the essential character of the locality.

- The proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.

Section B

A Variation is hereby granted from Title 19, Zoning of the Wheeling Municipal Code, Chapter 19.04.010 Residential District General Requirements, and associated sections, to permit the installation of a six-foot (6') tall privacy fence to be setback nine (9) feet from the north property line, along West Jeffery Avenue for the Subject Site, herein legally described:

LOT TEN (10) IN BLOCK SEVEN (7) IN MEADOWBROOK SUBDIVISION, UNIT NUMBER TWO, A SUBDIVISION OF PART OF THE NORTH HALF (1/2) OF SECTION 11, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF, REGISTERED IN THE OFFICE OF THE REGISTRAR OF TITLE OF COOK COUNTY, ILLINOIS, ON OCTOBER 24, 1955 AS DOCUMENT NUMBER 1629537.

Section C

The Variation granted in Section B of this Ordinance is to be completed substantially in accordance with the Plat of Survey submitted by the petitioner, attached hereto as Exhibit A and made part hereof.

Section D

The Variation approval granted in Section B of this Ordinance is subject to the following conditions:

1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence.
2. The proposed fence shall be angled where it abuts the neighbor to the east as approved by Village Staff.
3. The bush on the north side of the property shall be removed.

Section E

This Ordinance shall be in full force and effect from and after its passage and approval, according to law.

Trustee PAPANTOS moved, seconded by Trustee VOGEL that Ordinance No. 5696 be adopted.

President Horcher	Aye		
Trustee Krueger	Aye	Trustee Ruffatto	ABSENT
Trustee Lang	Aye	Trustee Vito	Aye
Trustee Papantos	Aye	Trustee Vogel	Aye

Ordinance No. 5696 **ADOPTED** this 4th day of November 2024, by the President and Board of Trustees of the Village of Wheeling, Illinois.

Patrick Horcher, Village President

ATTEST:

Kathryn M. Brady, Village Clerk

VILLAGE OF WHEELING, COOK AND LAKE COUNTIES ILLINOIS CORPORATE SEAL

APPROVED AS TO FORM:

Village Attorney

PUBLISHED in pamphlet form this 5th day of November 2024, by order of the Corporate Authorities of the Village of Wheeling, Cook and Lake Counties, Illinois.

VILLAGE OF WHEELING

ORDINANCE NO. 5696

ORDINANCE GRANTING A VARIATION FROM TITLE 19, ZONING, TO PERMIT A REDUCTION IN THE MINIMUM REQUIRED FRONT YARD SETBACK FOR THE INSTALLATION OF A FRONT YARD FENCE, 157 W. JEFFERY AVENUE [DOCKET NO. PV24-0011]

APPROVED BY THE CORPORATE AUTHORITIES OF THE VILLAGE OF WHEELING THIS 4TH DAY OF NOVEMBER 2024

Published in Pamphlet form this 5th day of November 2024, by order of the Corporate Authorities of the Village of Wheeling, Cook, and Lake Counties, Illinois.

VILLAGE OF WHEELING

ORDINANCE NO. 5696

ORDINANCE GRANTING A VARIATION FROM TITLE 19, ZONING, TO PERMIT A REDUCTION IN THE MINIMUM REQUIRED FRONT YARD SETBACK FOR THE INSTALLATION OF A FRONT YARD FENCE, 157 W. JEFFERY AVENUE [DOCKET NO. PV24-0011]

ADOPTED BY THE CORPORATE AUTHORITIES OF THE VILLAGE OF WHEELING

Published in pamphlet form by authority of the Corporate Authorities of the Village of Wheeling, Cook, Lake County, Illinois this 5th day of November 2024.

[Note: When an ordinance is published in pamphlet form, the Municipal Clerk should fill out the following certificate.]

STATE OF ILLINOIS)
) SS:
COUNTY OF COOK)

CERTIFICATE

I, Kathryn M. Brady, certify that I am the duly elected and acting Municipal Clerk of the Village of Wheeling, Cook & Lake Counties, Illinois.

I further certify that on November 4, 2024, the Corporate Authorities of such municipality passed and approved Ordinance No. 5696 entitled **"Ordinance Granting a Variation from Title 19, Zoning, to Permit a Reduction in the Minimum Required Front Yard Setback for the Installation of a Front Yard Fence, 157 W. Jeffery Avenue [Docket No. PV24-0011]"** which provided by its terms that it should be published in pamphlet form.

The pamphlet form of Ordinance No. 5696, including the Ordinance and a cover sheet thereof, was prepared, and a copy of such Ordinance was posted in the municipal building, commencing on November 5, 2024, and continuing for at least ten days thereafter. Copies of such Ordinance were also available for public inspection upon request in the office of the Municipal Clerk.

DATED at Wheeling, Illinois, this 4th day of November 2024.

(SEAL)

VILLAGE OF WHEELING, COOK AND LAKE COUNTIES ILLINOIS CORPORATE SEAL

Kathryn M. Brady - Municipal Clerk

Exhibit A (Attached)
Plat of Survey submitted by the petitioner



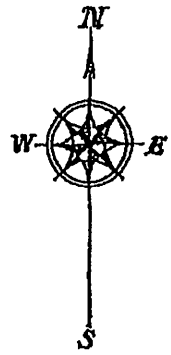
MURRY AND MOODY, LTD.

Land Surveyors

Illinois Professional Land Surveying Firm Corporation License No. 048-000087

913 S. Plum Grove Road Suite 101 Palatine, Illinois 60067

Phone: (847) 358-5960



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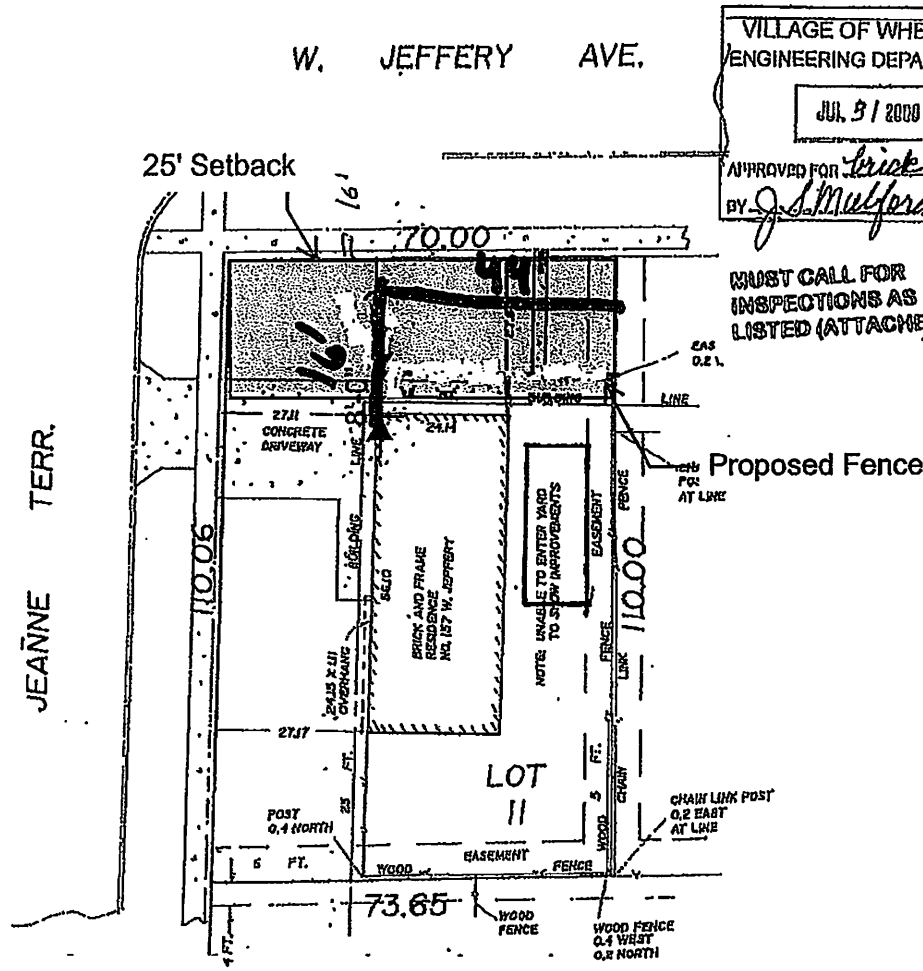

NOTES

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...en hereon, if any, per local or assumed data, unless shown

...r points before using same and report any differences

...scription with deed or title policy and report any discrepancy

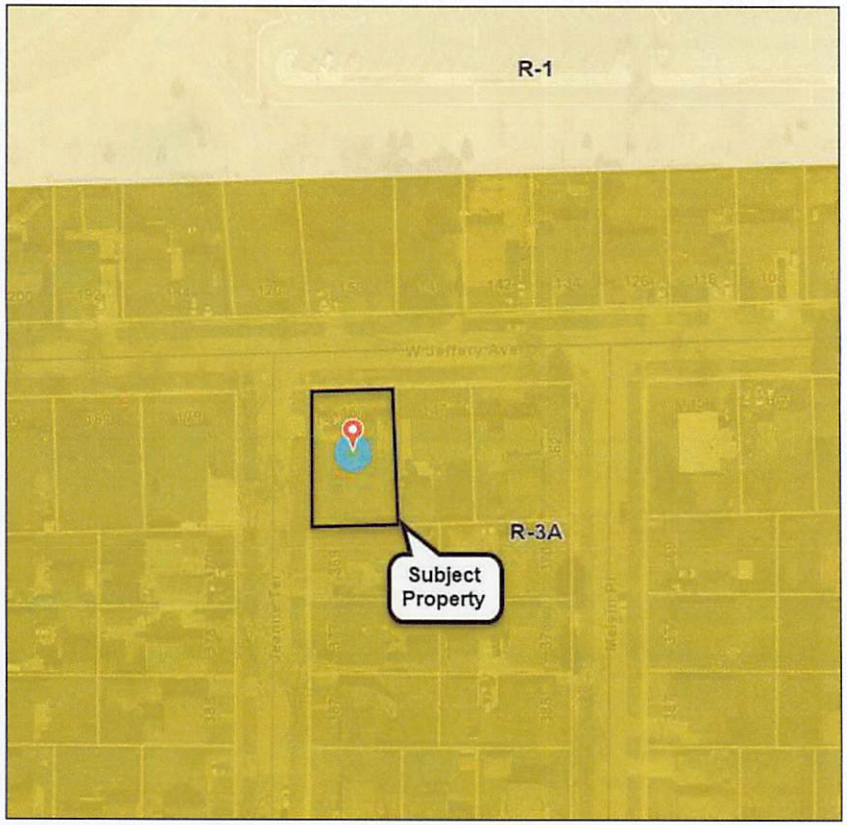
STATE OF ILLINOIS }
COUNTY OF COOK } ss.

I, James C. Cathanrue II, an Illinois Professional Land Surveyor do hereby certify that I have surveyed the above described property, and that the above plat is a correct representation of said survey.

Palatine, Illinois JULY 27, 2001



LOCATION MAP



ZONING MAP


W Jeffery Ave
LEGEND
9' Setback
17' Setback
Distance from PL to house = 25 FT
157
147
Neighbor's Driveway
Existing Fence
Jeanne Ter
362
Melvin Pl
Subject Property



Photo of proposed fence location facing east from intersection of Jeanne and Jeffery.



Photo of proposed fence location facing southeast with the driveway in question in the background.



Photo of proposed fence location facing southwest from the driveway of 147 W. Jeffery Ave.

Agenda Item Details

Meeting	Oct 23, 2024 - Wheeling Plan Commission Regular Meeting
Category	7. Items for Review
Subject	A. Docket No. PV24-0011: Request for a Variation to Reduce the Minimum Front Yard Setback Along W. Jeffery Avenue from 25 Feet to 9 Feet for the Installation of a 6 Foot Tall Fence (157 W. Jeffery Avenue). PUBLIC HEARING
Access	Public
Type	Action, Discussion
Fiscal Impact	No
Budgeted	No
Recommended Action	Recommend approval of Docket No. PV24-0011 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections, to reduce the minimum required building setback from the north side property line from 25 feet to 9 feet associated with the construction of a 6' tall wood fence, located at 157 West Jeffery Avenue, in accordance with the Plat of Survey provided by the petitioner and subject to the following: 1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence.

Public Content

PUBLIC HEARING INFORMATION

Docket No. PC24-0011: Mohammed Khan, 157 Center Avenue, Wheeling, IL 60090 (representative for property owner), is seeking a variation as required in Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections to permit the installation of a six-foot tall fence to encroach fourteen feet into the required front yard setback (minimum twenty-five setback required) along W. Jeffery Avenue, located at 157 Center Avenue.

GENERAL PROPERTY INFORMATION

Applicant: Mohammed Khan (representative for property owner)

Address: 157 W. Jeffery Ave.

Property size: 7,885 sq. ft.

Neighboring Property Land Use(s):

North: W. Jeffery Avenue (Single Family Residential across W. Jeffery Ave.)
South: Single Family Residential
West: Jeanne Terrace (Single Family Residential across Jeanne Terrace)
East: Single Family Residential

Existing Use of Property: Single family home

Existing Zoning: R-3A, Single Family Residential

Comprehensive Plan Designation: Residential

Zoning History: None

SUMMARY OF REQUEST

Mohammed Khan, representative for the property owner, is seeking a variation to permit the installation of a six-foot tall fence within the required front yard setback along W. Jeffery Avenue from the minimum required 25 feet to 9 feet.

VARIANCE ANALYSIS

A Variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

The subject property is a corner lot with two street frontages along West Jeffery Avenue and Jeanne Terrace. As a result, any installation of a six-foot tall fence along either street frontage requires a 25-foot setback. The homeowner seeks to install a new six-foot tall fence within the West Jeffery Avenue front yard, to project 16' from the house, resulting in a 9-foot setback. There is an existing fence along West Jeffery Avenue that currently projects into the required 25-foot setback (no variance records were found), which extends from the northeast corner of the house and extends east to the rear property line enclosing the rear yard. As requested, the homeowner is seeking to install a new privacy fence to extend from the front (northwest) corner of the house to create a larger fenced in side yard that fronts Jeffery Avenue.

The petitioner initially requested to install a privacy fence with a 17-foot setback from West Jeffery Avenue, which Village staff found acceptable. Subsequently, the petitioner revised the variance request to further extend the proposed fence into the front yard resulting in a 9-foot setback from West Jeffery Avenue. Staff does not support the further reduced setback to 9 feet since the property currently has sufficient backyard space on the east and south sides of the house resulting in ample backyard area. Commonly, corner lots have significantly limited back yard space and often the corner side yard is the only area where the property owner can establish a "backyard". However, this is not the case with the subject site. Additionally, the proposed fence location would impact the property to the east which the driveway is adjacent to the subject property. Installation of a new fence too far into the front yard along West Jeffery Avenue will create visibility obstructions of vehicles and pedestrian to anyone using the driveway next door (see attached aerial).

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request. (Any staff comments follow the petitioner's response)

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.**
   Applicant: My hardship is that we live on a property with two front yards, with a very small rear yard.

   Staff: The subject site being a corner lot does result in two front yards and the requirement to adhere to the 25-foot front yard setbacks. However, the subject site has sufficient usable space along the east and south sides of the home that does not result in unique conditions specific to the subject property.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other properties or uses.**
   Applicant: This is a unique situation only to corner lots in certain configurations.

   Staff: The subject site does not present any unique circumstances to support the setback variance.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**
   Applicant: We did not own the property when the lot was created.

   Staff: Their site currently conforms to the zoning code with respect to setback requirements.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**
   Applicant: My grandkids do come here often. My grandkids and we are deaf. We use American Sign Language as communication to each other. A 25 foot setback fence would help to protect us because we are deaf and avoid any misunderstood with language we use while we go to backyard to play.

   Staff: The requested variance will not affect the use of the subject property which will continue to remain as a single-family residential use.

5. **State how the granting of the variation will not alter the essential character of the locality.**
   Applicant: The fence will only encroach 8 feet into the 25 foot setback and will not alter the essential character of the area.

   Staff: The applicant's response was provided before the revised Site Plan was submitted. The revised site plan encroaches 16' into the setback and will impact the existing character of the block and create visual obstructions to the neighboring property to east.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.**
   Applicant: The fence will only encroach 8 feet into the 25 foot setback and will not alter the essential character of the area.

   Staff: The applicant's response was provided before the revised Site Plan was submitted. The revised site plan encroaches 16' into the setback. The minimum building setbacks of the R-3A District have been established to provide sufficient spacing of structures between adjacent properties to provide sufficient supply of light and air to neighboring properties.

STAFF REVIEW

Fire Prevention Bureau Review: The Fire Prevention Bureau does not have any comments at this time.

Engineering Division Review: The Engineering Division does not have any comments at this time.

Staff Recommended Actions: Staff does not recommend approval of the variation as presented, but does support the installation of a six-foot tall privacy fence with a 17-foot setback from West Jeffery Avenue rather than the minimum 25-foot setback.

* * * * * *

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of the variation, the appropriate motion would be to:

Recommend approval of Docket No. PV24-0011 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections, to reduce the minimum required building setback from the north side property line from 25 feet to 9 feet associated with the construction of a 6' tall wood fence, located at 157 West Jeffery Avenue, in accordance with the Plat of Survey provided by the petitioner and subject to the following:

1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence.

ATTACHMENTS:
Attachments to Staff Report (Staff)
Plat of Survey submitted by the petitioner
Photo of proposed fence

157 W Jeffery Attachments to Report.pdf (4,570 KB)

Revised Plat 16' panel.pdf (70 KB)

Proposed Fence.pdf (2,937 KB)

Motion & Voting

Recommend approval of Docket No. PV24-0011 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections, to reduce the minimum required building setback from the north side property line from 25 feet to 9 feet associated with the construction of a 6' tall wood fence, located at 157 West Jeffery Avenue, in accordance with the Plat of Survey provided by the petitioner and subject to the following:
1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence.
2. The proposed fence shall be angled where it abuts the neighbor to the east as approved by Village Staff.
3. The bush on the north side of the property shall be removed.

Motion by Diane Smart, second by Rick Hyken.
Final Resolution: Motion Carries
Yea: Don Johnson, Mike Sprague, Rick Hyken, Gerald Riles, Michelle Myer, Diane Smart
Nay: Steven Kasper

DOCKET NO. PV24-0011

FINDINGS OF FACT
AND RECOMMENDATION

To: Village President and Board of Trustees

From: Wheeling Plan Commission/Sign Code Board of Appeal

Re: **Docket No. PV24-0011**
157 W. Jeffery Avenue
Request for a Variation to Reduce the Minimum Front Yard Setback Along W. Jeffery Avenue from 25 Feet to 9 Feet for the Installation of a 6 Foot Tall Fence
PUBLIC HEARING

Chairman Johnson called Docket No. PV24-0011 on October 23, 2024. Present were Commissioners Riles, Sprague, Smart, Hyken, Kasper, Myer and Johnson. Also present were Village Engineer Kyle Goetzelmann, Fire Inspector Bob Niemiec, Village Planner Marcy Knysz, and Village Attorney Mallory Milluzzi.

Commissioner Sprague read the following statements.
A zoning variation is intended to be a method of adjustment to equalize regulations where the zoning code has created an unnecessary hardship. A variation is designed to allow affected property owners the same rights and privileges that others enjoy in the same zoning district. In order to be granted a variation a petitioner is required to demonstrate through testimony to the Plan Commission at a public hearing that their request meets the standards of the village code including, but not limited to, how their individual situation is unique or unusual.

Prior to the public hearing the petitioner provides written statements meant to show that their request meets the standards for a special use as established in Title 19. The Commission Chairperson will typically direct that these statements be entered into the record without a full reading of them at the hearing. Based upon the testimony and supporting materials submitted, the Plan Commission will make findings in support of, or against, the petitioner's testimony and report those findings to the Village Board.

Ms. Knysz provided a brief overview of the project. The subject property is a corner lot with two street frontages along West Jeffery Avenue and Jeanne Terrace. As a result, any installation of a six-foot tall fence along either street frontage requires a 25-foot setback. The homeowner seeks to install a new six-foot tall fence within the West Jeffery Avenue front yard, to project 16' from the house, resulting in a 9-foot setback. There is an existing fence along West Jeffery Avenue that currently projects into the required 25-foot setback (no variance records were found), which extends from the northeast corner of the house and extends east to the rear property line enclosing the rear yard. As requested, the homeowner is seeking to install a new privacy fence to extend from the front (northwest) corner of the house to create a larger fenced-in side yard that fronts Jeffery Avenue.

The petitioner initially requested to install a privacy fence with a 17-foot setback from West

Jeffery Avenue, which Village staff found acceptable. Subsequently, the petitioner revised the variance request to further extend the proposed fence into the front yard resulting in a 9-foot setback from West Jeffery Avenue. Staff does not support the further reduced setback to 9 feet since the property currently has sufficient backyard space on the east and south sides of the house resulting in ample backyard area. Commonly, corner lots have significantly limited back yard space and often the corner side yard is the only area where the property owner can establish a "backyard". However, this is not the case with the subject site. Additionally, the proposed fence location would impact the property to the east which the driveway is adjacent to the subject property. Installation of a new fence too far into the front yard along West Jeffery Avenue will create visibility obstructions of vehicles and pedestrian to anyone using the driveway next door.

The petitioner, Mohammed Khan, came forward and was sworn in through a sign language interpreter, Donna Reiter Brandwein. Mr. Khan stated that he wanted the fence to keep his family, who are all deaf, safe and his new puppy inside the property.

Ms. Pat Johnson, 148 W. Manchester came forward and was sworn in. Ms. Johnson stated she was opposed to the fence because it is on the corner and it will not look very nice. She further stated that the petitioner keeps three cars in the backyard and she thinks they want the fence to hide the cars. Attorney Milluzzi informed her this was not in the purview of the Plan Commission. Ms. Johnson thought that the fence would throw off the balance of the area.

Commissioner Riles did not have any questions.

Commissioner Myer asked why they were looking for a 9 foot setback on the north side when they have area on the east and south sides of their property. Mr. Khan responded that there was a tree there that was removed and he would like more room for his kids to play. Commissioner Myer also asked why he changed the location of the fence and more room. Mr. Khan responded that he initially wanted a dog run and now wants a playground for his kids.

Commissioner Kasper did not have any questions.

Commissioner Sprague stated that he had an issue with the 9' setback because of the proximity to the neighbor's driveway. He stated the back of the neighbor's car will hit the sidewalk before the driver can see the sidewalk. Commissioner Sprague asked if the petitioner would consider an angled fence by the neighbor's driveway. Mr. Khan responded through a sign language interpreter, Donna Reiter Brandwein, that he was willing to be flexible and does not want to block the neighbor's view.

The Plan Commission was polled to determine their thoughts on the fence location and removal of the bush.

Commissioner Riles was ok with the 9' setback if he was open to removing the bush, and was also open to angling the driveway for the safety of the neighbor.

Commissioner Myer thanked the petitioner for his flexibility. She concurred that for reasons of safety she would like to see the bush removed and then she would feel better about supporting the 9 foot setback and the angled fence.

Commissioner Kasper stated he was still not happy with the 9 foot setback and could not support that.

Commissioner Sprague stated that he was fine with the 9 foot setback if the bush was removed and the fence was angled.

Commissioner Smart stated that she was fine with the 9 foot setback if the bush was removed and the fence was angled.

Commissioner Hyken agreed with Commissioner Smart.

Chairman Johnson agreed with the other Commissioners.

Ms. Knysz read the two new conditions:

- The proposed fence shall be angled where it abuts the neighbor to the east as approved by Village Staff.
- The bush on the north side of the property shall be removed.

Chairman Johnson asked if there were any other questions and there were none.

Ms. Knysz read the proposed conditions for approval:

1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence.
2. The proposed fence shall be angled where it abuts the neighbor to the east as approved by Village Staff.
3. The bush on the north side of the property shall be removed.

Commissioner Smart moved, seconded by Commissioner Hyken to approve Docket No. PV24-0011 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections, to reduce the minimum required building setback from the north side property line from 25 feet to 9 feet associated with the construction of a 6' tall wood fence, located at 157 West Jeffery Avenue, in accordance with the Plat of Survey provided by the petitioner and subject to the following:

1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence.
2. The proposed fence shall be angled where it abuts the neighbor to the east as approved by Village Staff.

DRAFT

3. The bush on the north side of the property shall be removed.

On the roll call, the vote was as follows:

AYES:	Commissioners Sprague, Smart, Riles, Hyken, Johnson, Myer
NAYS:	Commissioner Kasper
ABSENT:	None
ABSTAIN:	None

There being six affirmative votes, the motion was approved.

Commissioner Hyken moved, seconded by Commissioner Myer to close Docket No. PV24-0011. On the roll call, the vote was as follows:

AYES:	Commissioners Sprague, Smart, Riles, Hyken, Johnson, Kasper, Myer
NAYS:	None
ABSENT:	None
ABSTAIN:	None

There being seven affirmative votes, the motion was approved.

Docket No. PV24-0011

NOTICE OF PUBLIC HEARING

Notice is hereby given that the Plan Commission of the Village of Wheeling will hold a public hearing on October 9, 2024 at 6:30 p.m. in the Board Room of the Wheeling Village Hall at 2 Community Boulevard, Wheeling, Illinois, to act on a petition by Mohammed Khan, 157 W. Jeffery Avenue, Wheeling, IL 60090 (representative for the property owner), seeking a variation from Title 19 – Zoning of the Wheeling Municipal Code, Chapter 19.04.050 R-3A Single-Family Residential District and associated sections, to permit the installation of a six-foot tall fence to encroach fourteen feet into the required front yard setback (minimum twenty-five setback required) along W. Jeffery Avenue, for the property located at 157 W. Jeffery Avenue, in the R-3A (Single Family) Zoning District.

All interested persons are invited to attend and be heard.

Docket No. PV24-0011

Published in Daily Herald September 24, 2024 261458

CERTIFICATE OF PUBLICATION

Paddock Publications, Inc.

Northwest Suburbs

Daily Herald

Corporation organized and existing under and by virtue of the laws of the State of Illinois, DOES HEREBY CERTIFY that it is the publisher of the **Northwest Suburbs DAILY HERALD**. That said **Northwest Suburbs DAILY HERALD** is a secular newspaper, published in Arlington Heights, Cook County, State of Illinois, and has been in general circulation daily throughout Cook County, continuously for more than 50 weeks prior to the first Publication of the attached notice, and a newspaper as defined by 715 ILCS 5/5.

I further certify that the **Northwest Suburbs DAILY HERALD** is a newspaper as defined in "an Act to revise the law in relation to notices" as amended in 1992 Illinois Compiled Statutes, Chapter 715, Act 5, Section 1 and 5. That a notice of which the annexed printed slip is a true copy,
was published 09/24/2024
in said **Northwest Suburbs DAILY HERALD**. This notice was also placed on a statewide public notice website as required by 5 ILCS 5/2.1.

BY Paula Baltzman
Designee of the Publisher of the Daily Herald

Control # 261458

PADDOCK PUBLICATIONS, INC. Corporate SEAL ILLINOIS

Agenda Item Details

Meeting	Nov 04, 2024 - Village Board Regular Meeting Agenda
Category	13. New Business - All Listed Items for Discussion and Possible Action
Subject	A. Ordinance Granting a Variation from Title 19, Zoning, to Permit a Reduction in the Minimum Required Front Yard Setback for the Installation of a Front Yard Fence, 157 W. Jeffery Avenue [Docket No. PV24-0011]
Access	Public
Type	Action
Fiscal Impact	No
Recommended Action	Motion to Approve
Goals	Residential Life

Public Content

From: Ross Klicker, Director of Community Development
Subject: Variation to Permit a Reduction in the Minimum Required Front Yard Setback for the Installation of a Front Yard Fence, 157 W. Jeffery Avenue [Docket No. PV24-0011]

EXECUTIVE SUMMARY

The property owner of 157 W. Jeffery seeks a zoning variation to reduce the minimum required front yard setback from 25 feet to nine feet for the installation of a six-foot-tall privacy fence along W. Jeffery Avenue. At its October 23, 2024 hearing, the Plan Commission recommended approval of the variation request subject to conditions. The complete staff report, including the description of the proposal and staff analysis, is attached.

MEMO

The subject property is a corner lot with two street frontages, along West Jeffery Avenue and Jeanne Terrace. As a result, any installation of a six-foot-tall fence along either street frontage requires a 25-foot setback. The homeowner is seeking to install a new six-foot-tall fence within the West Jeffery Avenue front yard to project sixteen feet from the house, resulting in a nine-foot setback. An existing fence along West Jeffery Avenue projects into the required 25-foot setback (no variance records were found), and this request seeks to further extend the fence into the front yard setback.

The petitioner initially requested to install a privacy fence with a 17-foot setback from West Jeffery Avenue, which Village staff found acceptable. Subsequently, the petitioner revised the variance request to further extend the proposed fence into the front yard resulting in a nine-foot setback from West Jeffery Avenue. Staff did not support the further reduced setback to nine feet since the property currently has sufficient backyard space on the east and south sides of the house, resulting in ample backyard area.

Plan Commission Recommendation

At the October 23, 2024 Plan Commission hearing, Commissioner Smart moved, seconded by Commissioner Hyken, to recommend approval of Docket No. PV24-0011 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter19.04.050 R-3A Single-Family Residential District and associated sections, to reduce the minimum required building setback from the north side property line from 25 feet to nine feet associated with the construction of a six-foot-tall wood fence, located at 157 West Jeffery Avenue, in accordance with the Plat of Survey provided by the petitioner and subject to the following conditions:

1. Within thirty (30) days from the granting of the variance by the Village of Wheeling, the petitioner shall submit an Application for Building Permit to the Department of Community Development for the fence.

2. The proposed fence shall be angled where it abuts the neighbor to the east as approved by Village Staff.

3. The bush on the north side of the property shall be removed.

On the roll call, the vote was as follows:

AYES: Commissioners Johnson, Sprague, Riles, Hyken, Myer, Smart
NAYS: Commissioner Kasper

There being six affirmative votes, the motion was approved.

Community Development Director's Review and Recommendation
I concur with the Findings of Fact and Recommendations provided by the Plan Commission. An ordinance is attached for the Board's consideration to reflect the Commission's recommendation for the granting of a variation to permit a reduction in the minimum required building setback from the north side property line from 25 feet to nine feet associated with the construction of a six-foot-tall wood fence for the property located at 157 W. Jeffery Avenue, subject to conditions.

Attachments
Ordinance – Variation for Docket No. PV24-0011
Exhibit: Plat of Survey submitted by the petitioner
PC Staff Report
Attachments to Staff Report (Staff)
Findings of Fact – Draft
Public Notice Certification

Strategic Plan Theme
Residential Life

Revised Plat.pdf (70 KB)

PC Staff Report 157 Jeffery Ave 10.23.2024.pdf (223 KB)

157 W Jeffery Attachments to Report.pdf (4,570 KB)

PV24-0011 157 Jeffery FOF DRAFT.pdf (637 KB)

Certificate of Publication on 09242024.pdf (139 KB)

PV24-0011 ORD 157 W Jeffery Variation.pdf (29 KB)

Administrative Content

Executive Content

REGULAR meetings will be televised on channels 17 and 99. If you would like to attend a Village meeting but require an auxiliary aid such as a sign language interpreter, call 847-499-9085 AT LEAST 72 HOURS PRIOR TO THE MEETING. To view the full agenda packet, visit www.boarddocs.com/il/vowil/Board.nsf/Public



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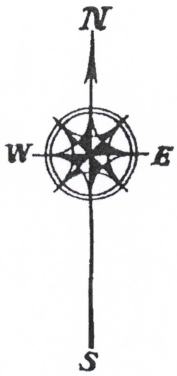
Phone: (847) 358-5960



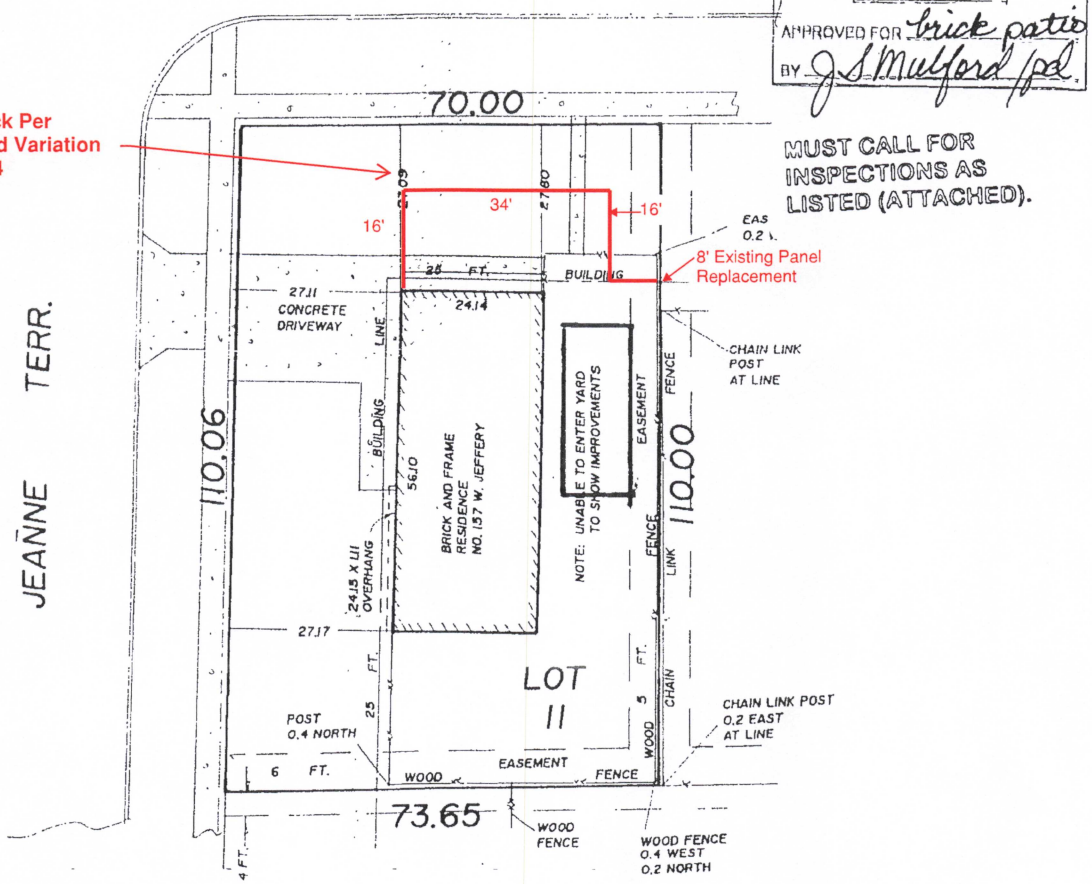
PLAT OF SURVEY

OF

EN (11) IN BLOCK SEVEN (7) IN MEADOWBROOK SUBDIVISION, UNIT NUMBER TWO, A SUBDIVISION OF PART OF THE NORTH HALF (1/2) ON 11, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF REGISTERED FFICE OF THE REGISTRAR OF TITLES OF COOK COUNTY, ILLINOIS, ON OCTOBER 24, 1955, AS DOCUMENT NUMBER 1629537.

VILLAGE OF WHEELING
ENGINEERING DEPARTMENT
JUL 9 / 2008
APPROVED FOR brick patio
BY J.S. Mulford /pd.

MUST CALL FOR INSPECTIONS AS LISTED (ATTACHED).



D NOTES

shown thus, 50.25 are feet and decimal parts thereof. Angular hus: 90° 00' 00" indicate degrees, minutes and seconds.

00' 00" E indicates measure dimension / bearing.
90° 00' 00" E) indicates record dimension / bearing.
(90° 00' 00" E d) indicates deed call dimension / bearing.

wn hereon, if any, per local or assumed data, unless shown

r points before using same and report any differences

escription with deed or title policy and report any discrepancy

STATE OF ILLINOIS } ss.
COUNTY OF COOK }

I, James C. Colbourne II, an Illinois Professional Land Surveyor do hereby certify that I have surveyed the above described property, and that the above plat is a correct representation of said survey.

Palatine, Illinois JULY 27, 2001

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PSU26-0003, Request to Amend Ordinance No. 3665, Which Granted Special Use and Site Plan Approval for a Public Park to the Wheeling Park District, Associated with the Reconstruction of the Wheeling Aquatics Center Facility (105 Community Boulevard). **PUBLIC HEARING**
RECOMMENDED ACTION: **Recommend approval of Docket No. PSU26-0003,** granting an amendment to Ordinance No. 3665, which granted special use and site plan approval for a public park, to the Wheeling Park District, for the redevelopment of the Wheeling Aquatics Center Facility located at 105 Community Boulevard (Heritage Park), as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10 Use Regulations, and associated sections, and in accordance with the Architectural Drawings prepared by Confluence, last revised 2/26/2026; Landscape Plan prepared by Confluence, last revised 3/27/2026; Site Plan Drawings prepared by Confluence, last revised 3/27/2026; and subject to the following conditions:

1. Special Use approval is contingent upon approval of Docket No. PV26-0006 (variation to permit a reduction in the minimum number of required parking spaces); Docket No. PV26-0007 (variation to permit an increase in the maximum lighting uniformity ratio); and Docket No. PSPMAJ25-0006 (major site plan and appearance approval).

EXECUTIVE SUMMARY

Docket No. PSU26-0003: Confluence, Inc. (325 W. Huron Street, Suite 602, Chicago, IL 60654) on behalf of the Wheeling Park District, property owner, is seeking an amendment to Ordinance No. 3665, which granted special use and site plan approval for a public park to the Wheeling Park District, associated with the reconstruction of the Wheeling Aquatics Center Facility located at 105 Community Boulevard (Heritage Park), which is zoned MXT (Transit-Oriented Mixed Use), R-1 (Single Family Residential) and R-2 (Single-Family), pursuant to Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.10 Use Regulations, and associated sections.

GENERAL PROPERTY INFORMATION

Petitioner: Confluence, Inc. (325 W. Huron Street, Suite 602, Chicago, IL 60654) on behalf of the Wheeling Park District (property owner)

Location: 105 Community Boulevard

Property size: 103.8 acres (total acreage of Heritage Park)/ 7.34 acres (total development area)

Proposed Floor Area: 12,154 sq. ft. (primary building and mechanical building)

Neighboring Property Land Use(s):
- North: Wheeling Village Hall and Police Department
- West: Wheeling Park District Community Recreation Center (CRC)/Residential
- South: Industrial/Residential
- East: Residential/Institutional (across Wolf Road)

Existing Use of Property: Wheeling Outdoor Aquatics Center (Public Park)

Existing Zoning: MXT (Transit-Oriented Mixed Use), R-1 (Single Family Residential) and R-2 (Single-Family)

Comprehensive Plan Designation: Open Space

Zoning History:

- Ordinance No. 2698, approved May 20, 1991, granting Special Use and Site Plan Approval for an existing public park and development improvements (Docket # 1991-10).
- Ordinance No. 3067, approved August 21, 1995, granting an amendment to Sections A and B of Ordinance No. 2698, which granted Special Use and Site Plan Approval for a public park (Docket # 1995-20).
- Ordinance No. 3665, approved August 12, 2002, granting an amendment to Ordinance No's. 2698 and 3067, which granted Special Use and Site Plan Approval for a public park to expand the Aquatic Center Facility (Docket # 2002-22).

SUMMARY OF REQUEST

The Wheeling Park District is requesting an amendment to Ordinance No. 3665, which granted special use and site plan approval for the current Aquatic Center Facility located at 105 Community Boulevard. While the underlying use as a public park will remain unchanged, an amendment to the existing special use is required as the Wheeling Park District's proposed redevelopment of the Aquatic Center Facility includes a substantial reconfiguration of the facility to the previously approved site plan associated with the special use.

Pursuant to the Village Code, changes to an approved special use involving modifications to the site plan or expansion of the development require an amendment to the original approval. This process ensures that the revised plan continues to comply with the applicable approval standards and remains compatible with surrounding properties. The amendment also provides the Village with the opportunity to evaluate the updated site design in conjunction with the special use and confirm the proposed improvements are consistent with the intent of the original approval.

The petitioner is also seeking major site plan and appearance approval for the redevelopment of the Aquatics Center (Docket No. PSPMAJ25-0006), along with a variation to reduce the minimum required number of parking spaces (PV26-0006) and a variation to permit an increase in the maximum lighting uniformity ratio (PV26-0007).

SPECIAL USE ANALYSIS

A Special Use is the use of land in which, because of their unique characteristics, cannot ordinarily be allowed in a particular zoning district without consideration of their impact upon neighboring land uses and would not be detrimental to the public health, safety or general welfare. After review of the Standards summarized in this staff report, the Commission may impose reasonable restrictions that make the special use more compatible for the zoning district in which it is located, which may include conditions related to site plan aspects to mitigate adverse effects.

The Wheeling Park District proposes to redevelop the existing outdoor aquatic facilities at Heritage Park to construct a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency and integrates cohesively with the surrounding park amenities and landscape features. As described in the petitioner's project description letter, the overall design of the proposed new aquatic center prioritizes clear site organization, intuitive circulation and safe operations.

The underlying special use as a public park/aquatic center will remain unchanged through the proposed new aquatic center facility, along with all previously approved use and operational requirements. An amendment to the existing Special Use Ordinance No. 3665 is required as the ordinance encompassed the approved site plan of the (current) aquatic center. Due to the substantial reconfiguration of the proposed aquatic center facility, the previously approved site plan and associated development plans contained in Ordinance No. 3665 will need to be replaced with the proposed development plans of Docket No. PSPMAJ25-0006.

The staff report for Docket No. PSPMAJ25-0006 contains a comprehensive narrative of the proposed development plans for the new aquatic center.

Standards for Special Use: The petitioner has submitted the following responses to the standards for special use. (Any staff comments follow the petitioner's response)

1. **State why the Special Use is necessary for the public convenience at the proposed location.**

   Petitioner: The Family Aquatic Center has operated on this site within Heritage Park for more than 30 years as an approved public use and remains a core component of the Park District's recreation system. The project involves demolition of the existing aquatic center and construction of a new facility in its place, maintaining the same public recreational function while meeting current standards. Reinvestment in this site supports community welfare by preserving access to outdoor recreation, supporting youth and family programming, and reinforcing Heritage Park's role as a community amenity without introducing a new or incompatible land use.

   Staff: The proposed location within the MXT (Transit-Oriented Mixed Use), R-1 (Single Family Residential) and R-2 (Single-Family) Districts permits public parks subject to Special Use approval. The proposed redevelopment maintains an existing and long-standing recreational use and is consistent with the existing special use.

2. **State how the Special Use will not alter the essential character of the area in which it is to be located.**

   Petitioner: The proposed Special Use will not be detrimental to the health, safety, morals, or general welfare of the surrounding area or the Village. The project replaces an aging aquatic facility with a modern facility designed to meet current building, public health, fire, and life-safety standards. Operations will continue to be managed by the Wheeling Park District, consistent with past practice, and the use will remain seasonal and recreational in nature. By addressing existing safety concerns and reinvesting in well-maintained public infrastructure, the project supports the continued safe enjoyment of Heritage Park and is not expected to negatively affect nearby properties or property values.

   Staff: Staff concurs with the petitioner's response.

3. **State how the location and size of the Special Use, the nature and intensity of the operation involved in or conducted with it, the size of the site in relation to it, and the location of the site with respect to streets giving access to it will be in harmony with and not impede the normal, appropriate and orderly development of the district in which it is to be located and the development of surrounding properties.**

   Petitioner: The establishment of the Special Use will not impede or interfere with the normal and orderly development of surrounding property for permitted uses. The site has long been developed and used for public park and recreational purposes, and the Family Aquatic Center has operated as an approved use within Heritage Park for decades. The proposed project replaces the existing facility on the same site and does not alter the overall land use pattern or introduce new development intensity. Surrounding properties will continue to develop in accordance with existing zoning, and the replacement aquatic center will remain compatible with adjacent park amenities and nearby residential uses.

   Staff: Staff concurs with the petitioner's response.

4. **State how the location, nature and height of buildings, walls and fences, and the nature and extent of the landscaping on the site shall be such that the use will not hinder or discourage the appropriate development and use of adjacent land and buildings, or will not impair the value thereof.**

   Petitioner: The proposed use and development will be adequately served by existing public facilities and services, including streets, public utilities, drainage infrastructure, police and fire protection, and refuse services, all of which currently support the existing aquatic center. Any necessary utility, drainage, or site infrastructure upgrades will be addressed as part of the project design and permitting process in coordination with the Village and applicable agencies. The replacement facility will continue to operate within established service capacities and will not place an undue burden on municipal systems or public safety resources.

Staff: The proposed building design, site improvements, and landscaping enhancements will improve the overall quality and appearance of the site. The redevelopment is not expected to hinder or discourage the appropriate development or use of adjacent properties, nor impair surrounding property values, and will continue to serve as a community amenity.

5. **State how the parking areas will be of adequate size for the particular use, properly located and suitably screened from adjacent residential uses, entrance and exit drives shall be laid out so as to prevent traffic hazards and nuisances and the development will not cause traffic congestion.**

   Petitioner: The proposed use will not cause undue traffic congestion or draw significant amounts of traffic through residential streets beyond what has historically occurred with the existing aquatic center. Traffic patterns associated with the seasonal operation of the Family Aquatic Center are well established and understood. Site access and parking will be reviewed and designed to meet current standards, provide safe circulation, and minimize traffic hazards and nuisance conditions. The replacement facility is intended to function similarly to the existing facility in terms of seasonal use and attendance, and therefore is not expected to create new or increased traffic impacts on surrounding streets.

   Staff: The proposed parking layout and site circulation have been designed to accommodate the anticipated demand associated with the seasonal operation of the aquatic center. Access points and internal circulation patterns are configured to promote safe and efficient traffic flow and are not expected to result in significant traffic congestion or hazards beyond existing conditions.

6. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulation in that zone.**

   Petitioner: The proposed use will comply with all applicable zoning regulations, building codes, fire and life-safety requirements, accessibility standards, and public health regulations. The replacement Family Aquatic Center will be designed, permitted, and constructed in coordination with the Village of Wheeling, the Illinois Department of Public Health, and other reviewing agencies as required. The project maintains the established public recreational use previously approved under the original Special Use Permit and does not introduce new conditions or exceptions inconsistent with that approval.

   Staff: The proposed use is consistent with the MXT (Transit-Oriented Mixed Use), R-1 (Single-Family Residential), and R-2 (Single-Family Residential) Districts, as well as the Comprehensive Land Use designation of Open Space. The redevelopment maintains the established recreational use of the property and is consistent with previously approved Special Use entitlements.

STAFF REVIEW

Fire Department Review: No outstanding comments from the Fire Department.

Engineering Division Review: No outstanding comments from the Engineering Division.

Staff Recommended Action: Staff recommends approval of the special use, subject to the following conditions:

1. Special Use approval is contingent upon approval of Docket No. PV26-0006 (variation to permit a reduction in the minimum number of required parking spaces); Docket No. PV26-0007 (variation to permit an increase in the maximum lighting uniformity ratio); and Docket No. PSPMAJ25-0006 (major site plan and appearance approval).

******

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of a special use, the appropriate motion would be to:

Recommend approval of Docket No. PSU26-0003, granting an amendment to Ordinance No. 3665, which granted special use and site plan approval for a public park, to the Wheeling Park District, for the redevelopment of the Wheeling Aquatics Center Facility located at 105 Community Boulevard (Heritage Park), as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10 Use Regulations, and associated sections, and in accordance with the Architectural Drawings prepared by Confluence, last revised 2/26/2026; Landscape Plan prepared by Confluence, last revised 3/27/2026; Site Plan Drawings prepared by Confluence, last revised

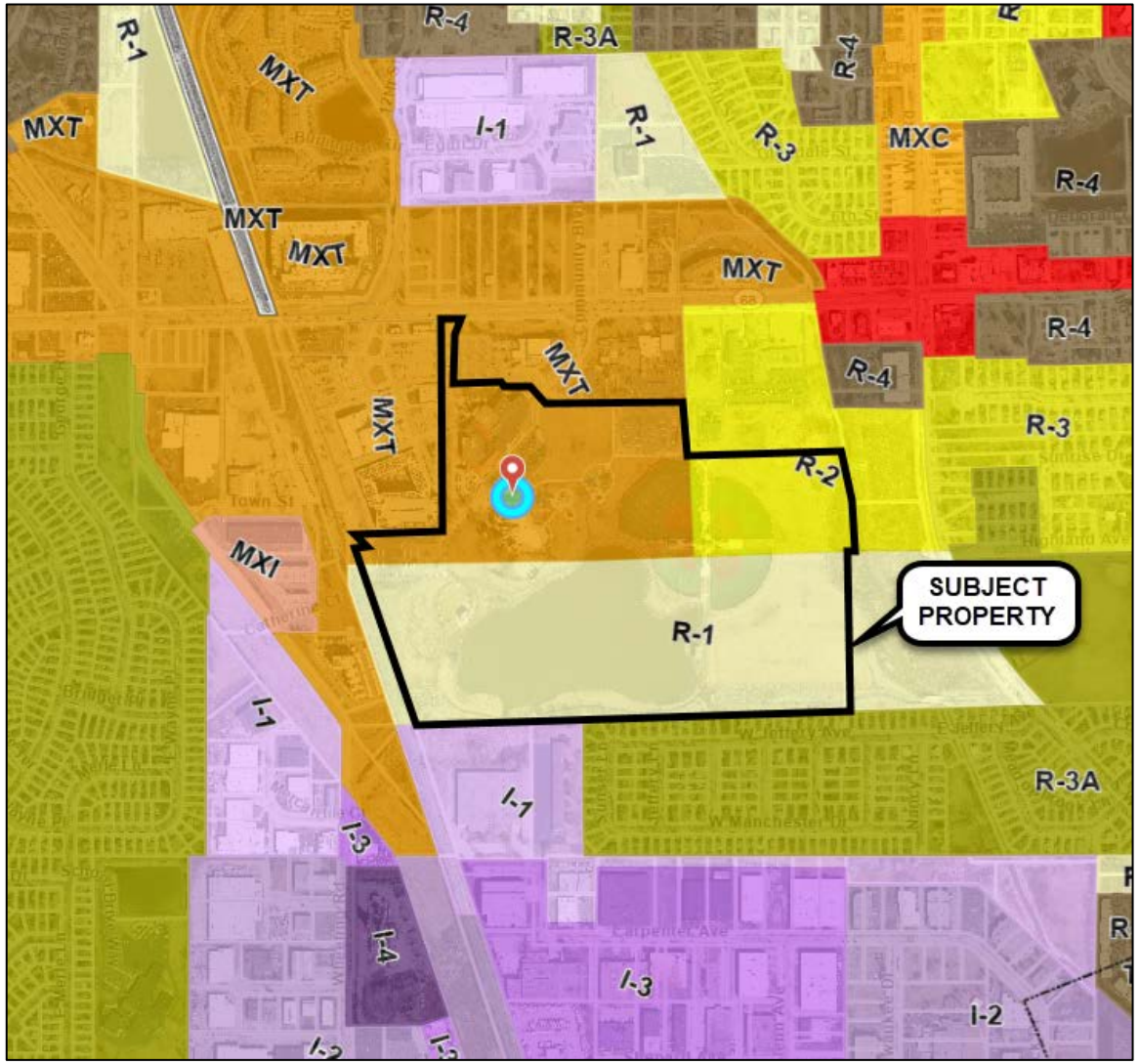
3/27/2026; and subject to the following conditions:

1. Special Use approval is contingent upon approval of Docket No. PV26-0006 (variation to permit a reduction in the minimum number of required parking spaces); Docket No. PV26-0007 (variation to permit an increase in the maximum lighting uniformity ratio); and Docket No. PSPMAJ25-0006 (major site plan and appearance approval).

ATTACHMENTS:
Attachments to Staff Report (Staff)
Architectural Drawings prepared by Confluence, last revised 2/26/2026
Landscape Plan prepared by Confluence, last revised 3/27/2026
Project Description Letter prepared by Confluence, last revised 2/26/2026
Site Plan Drawings prepared by Confluence, last revised 3/27/2026



LOCATION MAP



ZONING MAP



Photo of the Existing Parking Lot Located Southwest of the Aquatics Center.



Photo of the crosswalk between The One Apartments and the west side of the parking lot, facing south.

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ONLY. IF THIS SHEET IS ORIGINAL PAGE SIZE

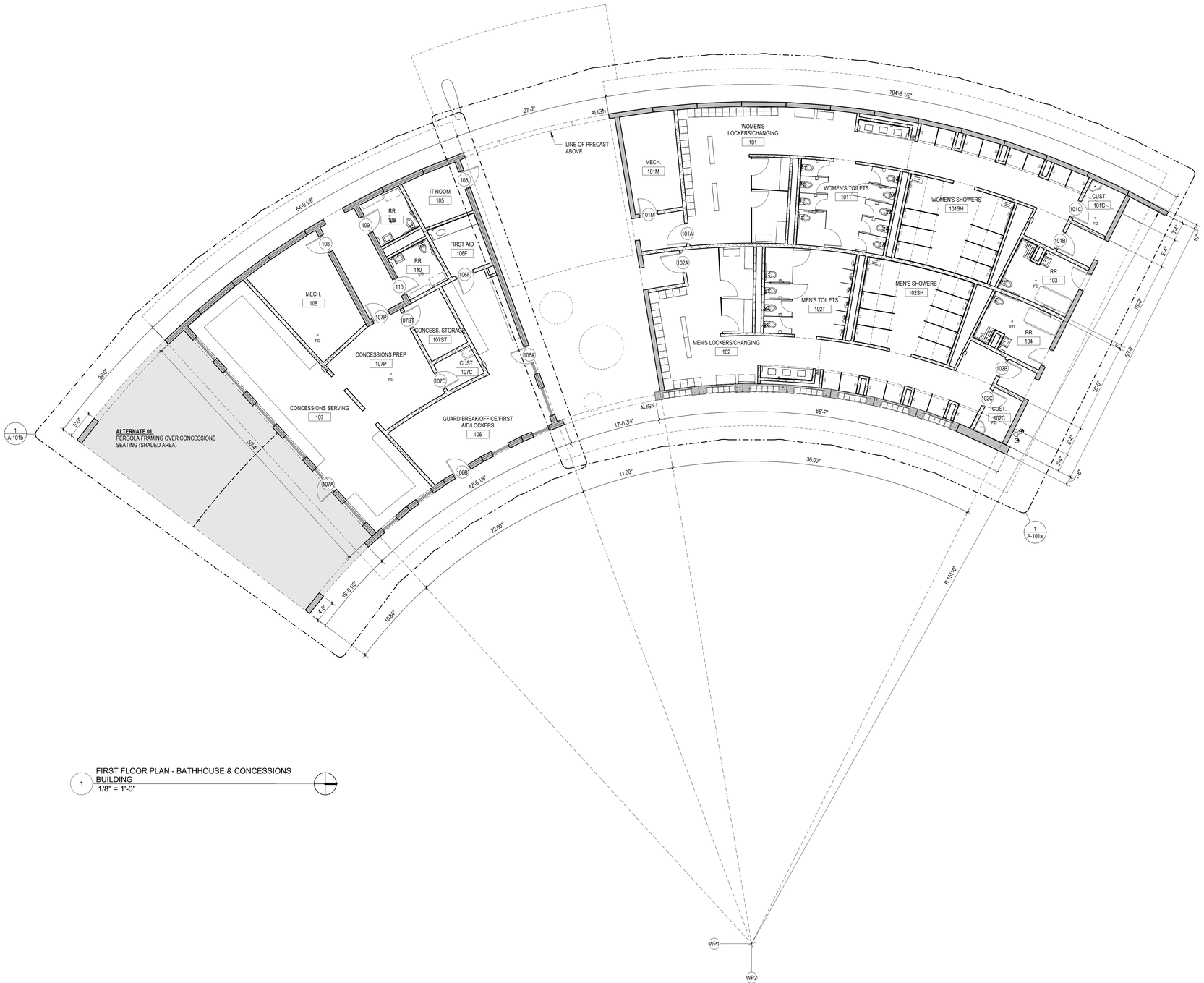
ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
N001	PHENOLIC LOCKER ROOM BENCH (9 1/2"D)
N002	PHENOLIC ADA LOCKER ROOM BENCH (20"x48")
N003	PHENOLIC CHANGING ROOM BENCH (20"D)
N004	CLINIC COT FOOTPRINT, SHOWN HATCHED
N005	RETRACTABLE GATE ASSEMBLY
N006	SWINGING GATE ASSEMBLY W/INTEGRATED POST AND MAN DOOR - REFER TO LANDSCAPE DRAWINGS
N008	OVERHEAD SECURITY DOOR ASSEMBLY
N009	VENDING MACHINE EQUIPMENT
N010	CONCESSIONS SEATING AREA FENCING - SEE LANDSCAPE DRAWINGS

FLOOR PLAN LEGEND

- 1 / A101 SIM — DETAIL SECTION TAG
- 1 / A101 SIM — BUILDING & WALL SECTION TAG
- M8 — WALL TYPE - REFER TO A-611 FOR WALL TYPES
- 101 — DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE
- ROOM NAME / 101 — ROOM NAME / ROOM NUMBER
- A101 Ref — INTERIOR ELEVATION TAG
- A101 1 Ref — EXTERIOR ELEVATION TAG
- 0 — COLUMN TAG AND COLUMN CENTERLINE
- A101 Ref 1 — STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
- FE — FIRE EXTINGUISHER - WALL MOUNTED
- FEC — SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
- FD — FLOOR DRAIN
- N### — NEW WORK NOTE
- 30X52 — ACCESSIBILITY CLEARANCE - SEE FLOOR PLAN FOR SIZES MARKED IN GRAY
- 67" DIAMETER TURNING CIRCLE ACCESSIBILITY CLEARANCE

NOTE: DIMENSIONS SHOWN IN THIS PLAN ARE TO THE FACE OF CMU WALL ASSEMBLIES, U.N.O. DIMENSION STRINGS WITH 'F.F.' INDICATE DIMENSIONS TO FINISH FACE MATERIAL



1 FIRST FLOOR PLAN - BATHHOUSE & CONCESSIONS BUILDING
1/8" = 1'-0"

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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

FIRST FLOOR PLAN - BATHHOUSE & CONCESSIONS

A-101

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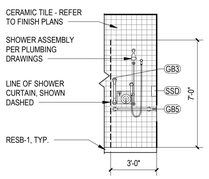
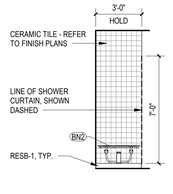
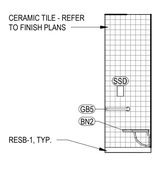


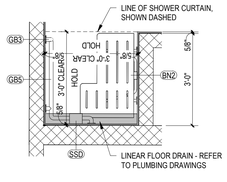
6 INT. ELEV. - SHOWER - SOUTH
1/4" = 1'-0"



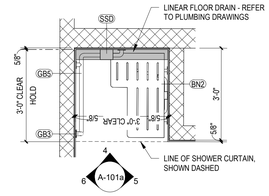
5 INT. ELEV. - SHOWER - NORTH
1/4" = 1'-0"



4 INT. ELEV. - SHOWER - WEST
1/4" = 1'-0"



3 ENLARGED PLAN - RR104 SHOWER
1/2" = 1'-0"



2 ENLARGED PLAN - RR103 SHOWER
1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE

BN1	BOBRICK B-5193 FOLDING SHOWER SEAT
BN2	BOBRICK B-5181 REVERSIBLE FOLDING SHOWER SEAT
CHT	BABY CHANGING STATION
CHT-A	ADULT CHANGING STATION
GB1	36" HORIZONTAL GRAB BAR
GB2	42" HORIZONTAL GRAB BAR
GB3	18" VERTICAL GRAB BAR
GB4	48" HORIZONTAL GRAB BAR
GB5	TWO-WALL GRAB BAR
M1	4'-0" X 3'-0" MIRROR
SD	WALL MOUNTED SOAP DISPENSER
SSD	WALL MOUNTED SHOWER SOAP DISPENSER
SN	SANITARY NAPKIN DISPOSAL
SR1	SHOWER CURTAIN ROD | EXPOSED MOUNTING | 1" OD
TP	TOILET PAPER DISPENSER
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER

NOTE:
1. REFER TO G-201 FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES AND ACCESSORIES.
2. ELEVATIONS ARE FROM FINISHED TILE SURFACES.
3. ALL TOILET STALLS TO HAVE 1'-0" TOE CLEARANCE.
4. BOTTOM OF ALL SHOWER PARTITIONS TO BE 6" ABOVE FINISHED FLOOR

FLOOR PLAN LEGEND

- 1 / A101 SIM — DETAIL SECTION TAG
- FE — FIRE EXTINGUISHER - WALL MOUNTED
- 1 / A101 SIM — BUILDING & WALL SECTION TAG
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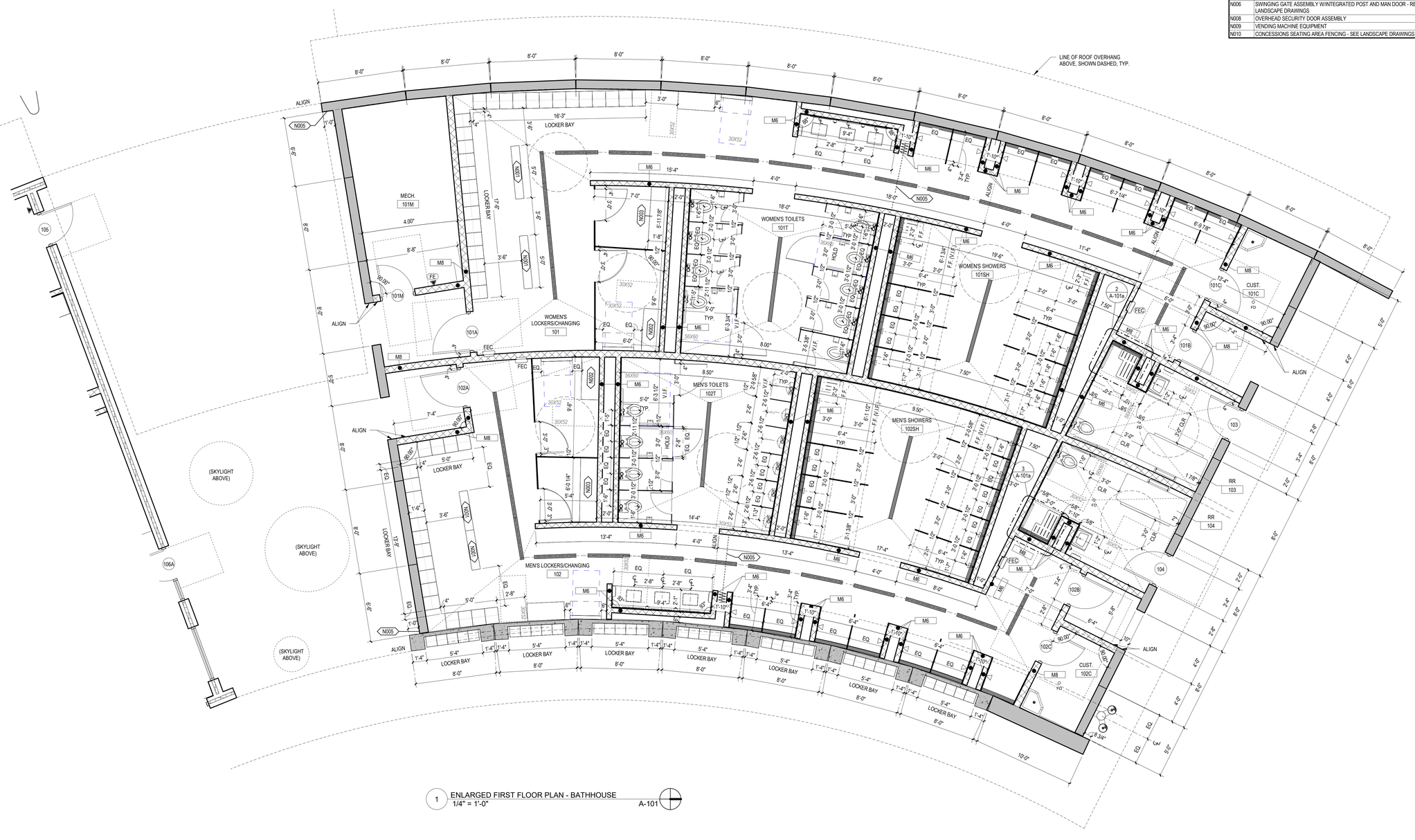

1 ENLARGED FIRST FLOOR PLAN - BATHHOUSE
1/4" = 1'-0"
A-101

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920.887.7375

PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

FIRST FLOOR PLAN - BATHHOUSE

A-101a

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1 ENLARGED FIRST FLOOR PLAN - CONCESSIONS BUILDING
1/4" = 1'-0"
A-101

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FIRST FLOOR PLAN - CONCESSIONS

A-101b

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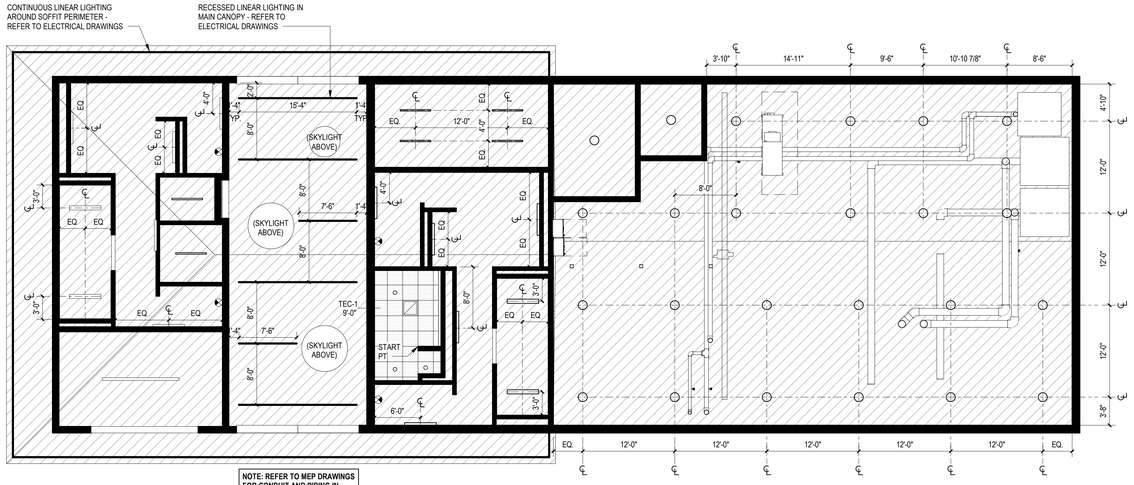
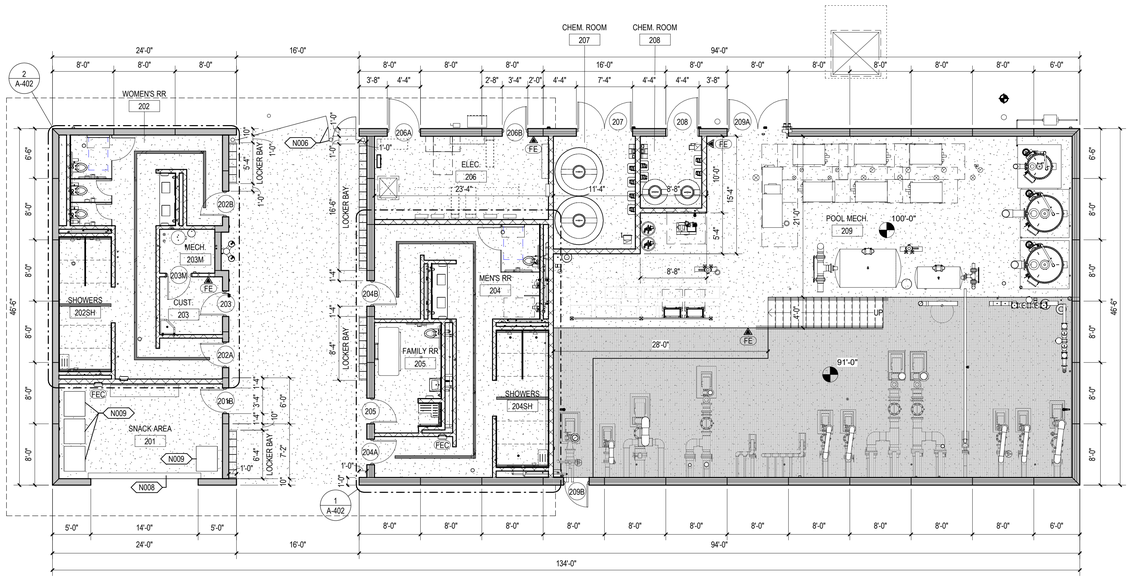


NOTE: REFER TO MEP DRAWINGS FOR CONDUIT AND PIPING IN AREAS WITH EXPOSED CEILINGS

2 REFLECTED CEILING PLAN - MECHANICAL BUILDING
1/8" = 1'-0" A-101a



1 FIRST FLOOR PLAN - MECHANICAL BUILDING
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- FINISHED CEILING ELEVATION
- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE *BASIS OF DESIGN: ARMSTRONG PRELUDE PLUS SOLID ALUMINUM W/TECTUM PANELS*
- METAL SOFFIT PANEL
- EXPOSED CEILING
- RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED CAN WALL WASHER - REFER TO ELECTRICAL DRAWINGS
- 1' X 4' SURFACE MOUNTED LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED 1' X 4' INDUSTRIAL LUMINAIRE
- RECESSED 4" LINEAR FIXTURE
- DROPPED PENDANT MOUNTED
- SUSPENDED TRANSLUCENT RESIN PANEL SYSTEM
- RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- ROUND SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- LINEAR SLOT SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
- CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
- EMERGENCY WALL LIGHT
- EMERGENCY EXIT SIGN
- RECESSED BUSWAY SYSTEM - REFER TO ELECTRICAL DRAWINGS
- SD SMOKE DETECTOR
- OS OCCUPANCY SENSOR
- DS DAYLIGHT SENSOR
- SC SECURITY CAMERA
- AV AV SPEAKERS
- WAP WIRELESS ACCESS POINT

ARCHITECTURAL PLAN NOTES N###

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FIRST FLOOR PLAN & RCP - MECHANICAL BUILDING

A-102

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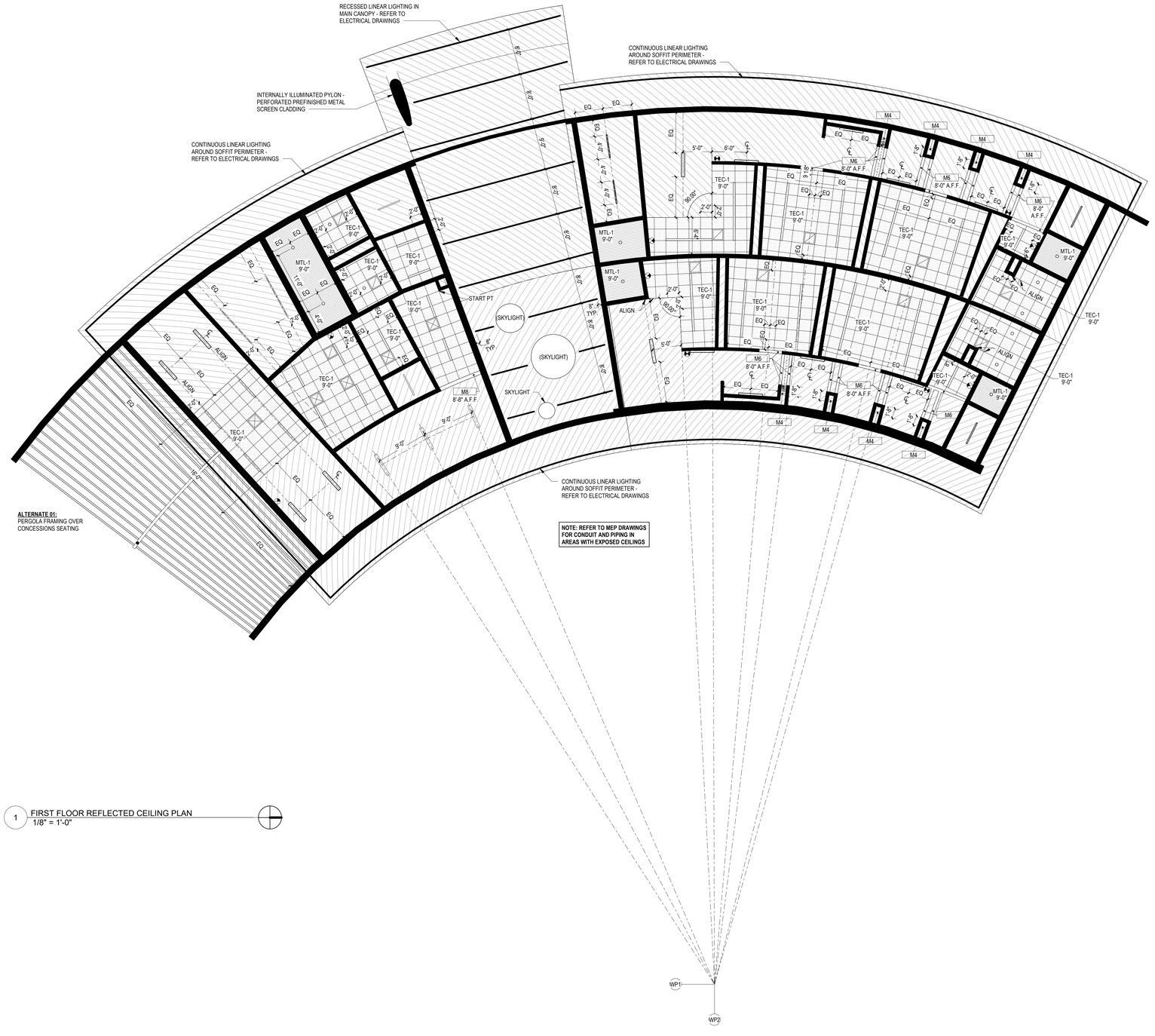

1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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- EXPOSED CEILING
- RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED CAN WALL WASHER - REFER TO ELECTRICAL DRAWINGS
- 1' X 4' SURFACE MOUNTED LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED 1' X 4' INDUSTRIAL LUMINAIRE
- RECESSED 4" LINEAR FIXTURE
- DROPPED PENDANT MOUNTED
- SUSPENDED TRANSLUCENT RESIN PANEL SYSTEM
- RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- ROUND SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- LINEAR SLOT SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
- CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
- EMERGENCY WALL LIGHT
- EMERGENCY EXIT SIGN
- RECESSED BUSWAY SYSTEM - REFER TO ELECTRICAL DRAWINGS
- SD SMOKE DETECTOR
- OS OCCUPANCY SENSOR
- DS DAYLIGHT SENSOR
- SC SECURITY CAMERA
- AV AV SPEAKERS
- WAP WIRELESS ACCESS POINT

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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

FIRST FLOOR RCP - BATHHOUSE & CONCESSIONS

AC101

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ROOF PLAN LEGEND

- AREA OF SLOPED STRUCTURE
- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF TAPERED INSULATION - REFER TO ROOF PLAN FOR SLOPE
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- # — TOTAL HEIGHT OF INSULATION IN INCHES NOT INCLUDING COVER BOARD
- METAL COPING AND JOINT - REFER TO DETAILS 5/A-521 (HORIZONTAL) AND 6/A-521 (VERTICAL)
- VP — VENT PIPE ROOF PENETRATION
- **EF** — EXHAUST FAN - REFER TO MECHANICAL DRAWINGS
- **EH** — EXHAUST HOOD - REFER TO MECHANICAL DRAWINGS
- **MU** — MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS

ROOF CONSTRUCTION NOTES - ENTRY BUILDING

ROOF AREA 01: 4,106 SF
METAL DECK
INSULATED ROOFING

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION (R34 AVERAGE MINIMUM), STAGGER JOINTS, SET IN INSULATION ADHESIVE.
4. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
5. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
6. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
7. INSTALL WALKWAY PADS.
8. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
9. INSTALL LIGHTNING PROTECTION SYSTEM.

ROOF AREA 02: 1,450 SF
ROOF AREA 03: 5,388 SF
METAL DECK
UNINSULATED ROOFING

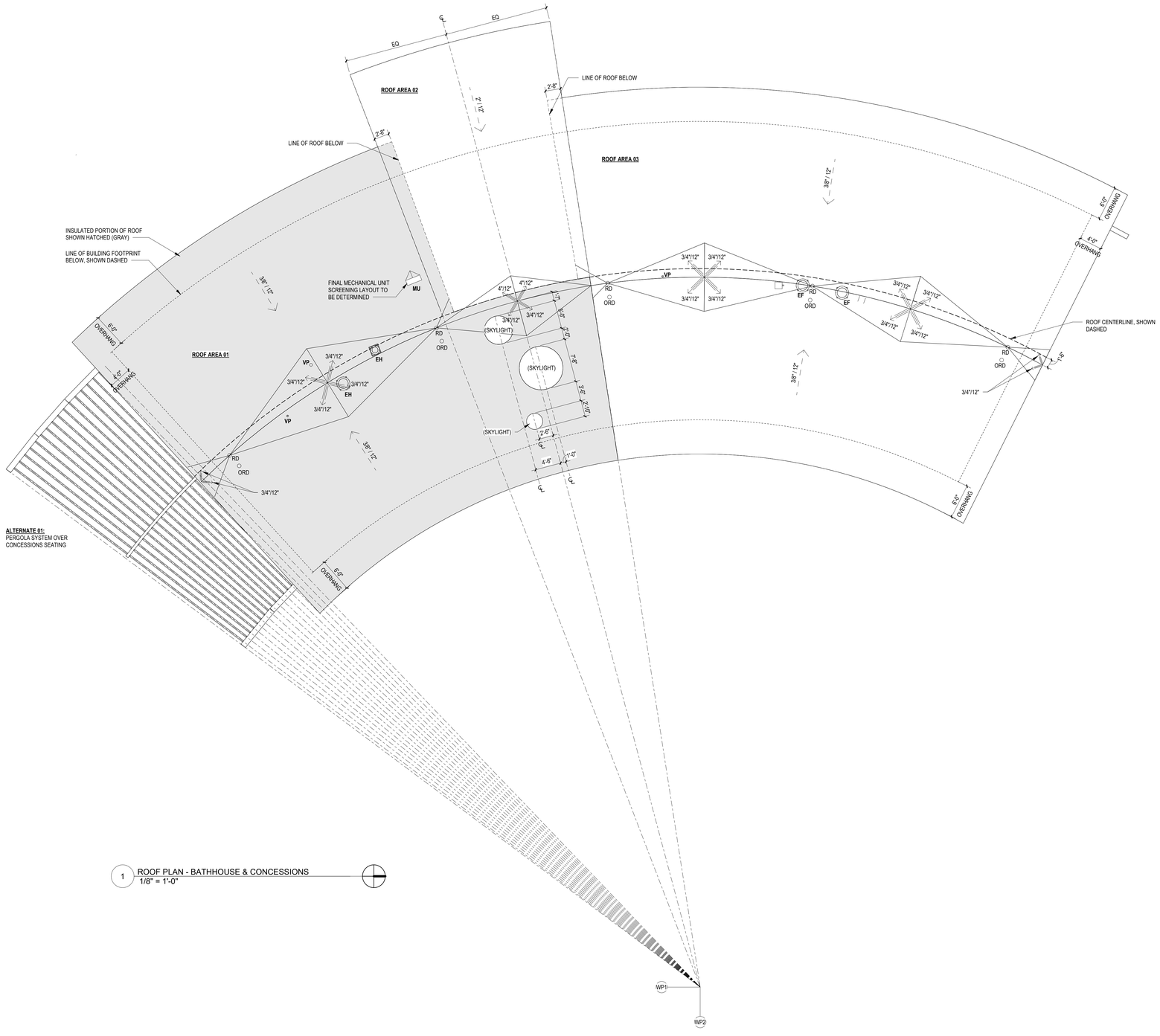
1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL WALKWAY PADS.
7. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
8. INSTALL LIGHTNING PROTECTION SYSTEM.

GENERAL ROOF NOTES

1. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
3. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
4. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
5. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
6. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
7. APPLY MEMBRANE MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
8. DRAINS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.
9. PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
10. WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
11. SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL DECK ONLY.
12. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
13. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.
14. REFER TO "ROOF PLAN LEGEND" ON SHEETS AR101 & AR102.

ROOF PLAN FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 ***(PAINT)*** SCREW.
6. EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.



ALTERNATE 01:
PERGOLA SYSTEM OVER CONCESSIONS SEATING

1 ROOF PLAN - BATHHOUSE & CONCESSIONS
1/8" = 1'-0"

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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

ROOF PLAN - BATHHOUSE & CONCESSIONS

AR101

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT ITS ORIGINAL PAPER SIZE

ROOF PLAN LEGEND

- AREA OF SLOPED STRUCTURE
- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF TAPERED INSULATION - REFER TO ROOF PLAN FOR SLOPE
- RD — ROOF DRAIN
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- METAL COPING AND JOINT - REFER TO DETAILS 5/A-521 (HORIZONTAL) AND 6/A-521 (VERTICAL)
- VP — VENT PIPE ROOF PENETRATION
- **EF** — EXHAUST FAN - REFER TO MECHANICAL DRAWINGS
- **EH** — EXHAUST HOOD - REFER TO MECHANICAL DRAWINGS
- **MU** — MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS

ROOF CONSTRUCTION NOTES - MECHANICAL BUILDING

ROOF AREA 04: 2,493 SF
METAL DECK
UNINSULATED ROOFING

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL WALKWAY PADS.
7. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
8. INSTALL LIGHTNING PROTECTION SYSTEM.

ROOF AREA 05: 1,342 SF
ROOF AREA 06: 3,006 SF
METAL DECK
INSULATED ROOFING

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION (R34 AVERAGE MINIMUM). STAGGER JOINTS, SET IN INSULATION ADHESIVE.
4. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
5. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
6. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
7. INSTALL WALKWAY PADS.
8. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
9. INSTALL LIGHTNING PROTECTION SYSTEM.

GENERAL ROOF NOTES

1. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
3. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
4. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
5. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
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9. PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
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12. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
13. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.
14. REFER TO "ROOF PLAN LEGEND" ON SHEETS AR101 & AR102.

ROOF PLAN FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
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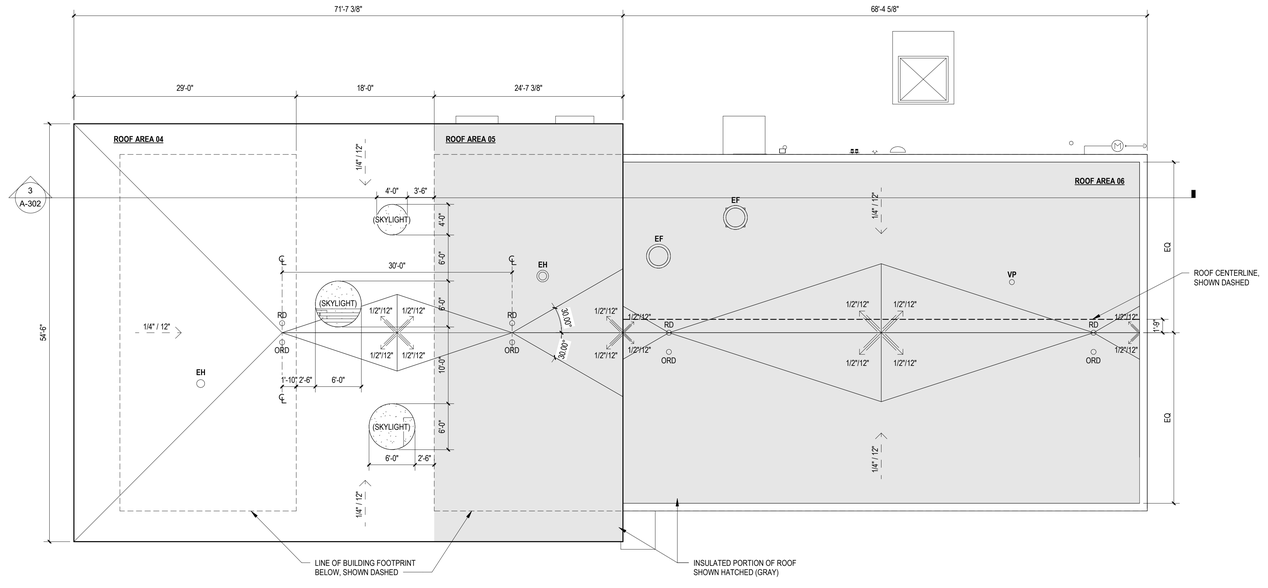
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.



1 ROOF PLAN - BATHHOUSE & CONCESSIONS
1/8" = 1'-0"
A-202

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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

ROOF PLAN - MECHANICAL BUILDING

AR102

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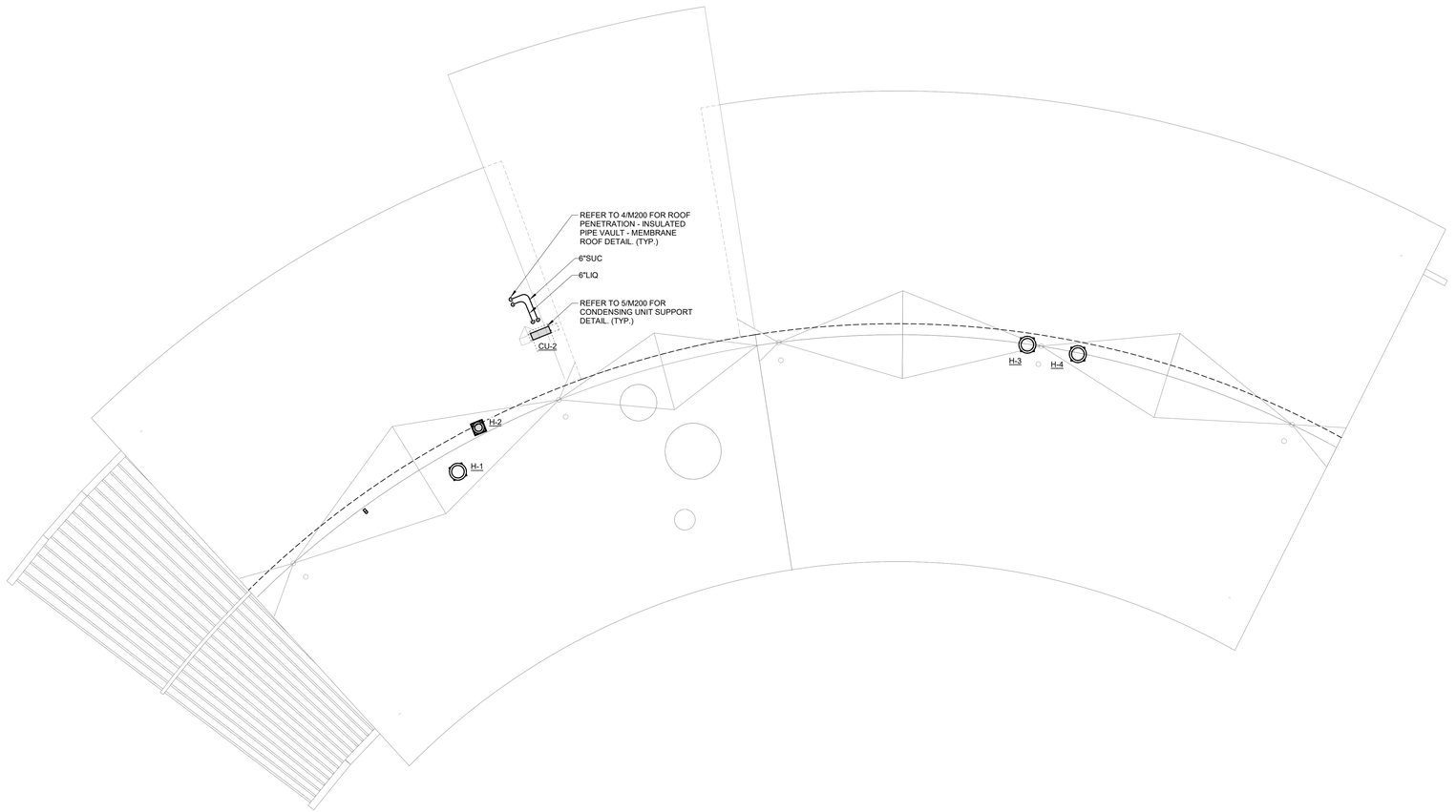

NORTH

1 **ROOF PLAN - HVAC - BATH HOUSE & CONCESSIONS**

1/8" = 1'-0"

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Revision Schedule

NO.	DATE	DESCRIPTION
	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ROOF PLAN - HVAC - BATH HOUSE & CONCESSIONS

M-112A

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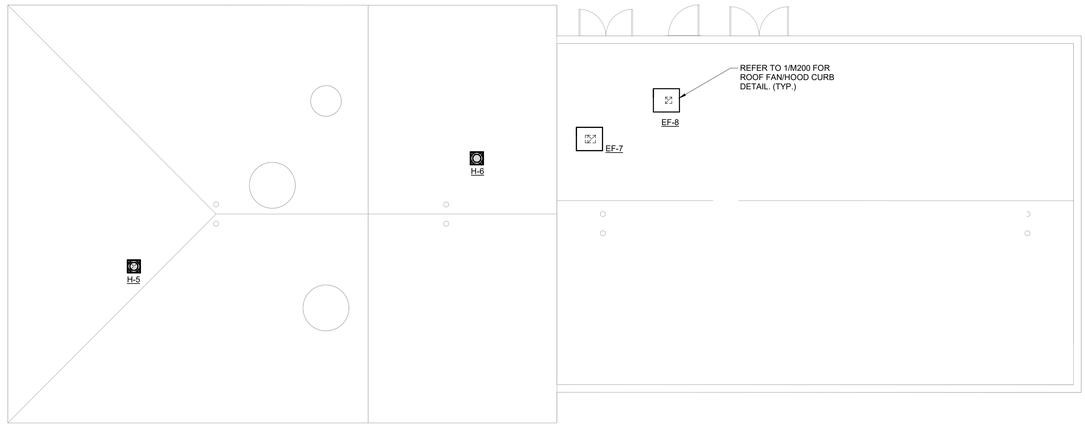

NORTH

1 ROOF PLAN - HVAC - MECHANCAL & RESTROOM

1/8" = 1'-0"

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Revision Schedule

NO.	DATE	DESCRIPTION
	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

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PROJECT #25005326.00

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ROOF PLAN - HVAC - MECHANCAL & RESTROOM

M-112B

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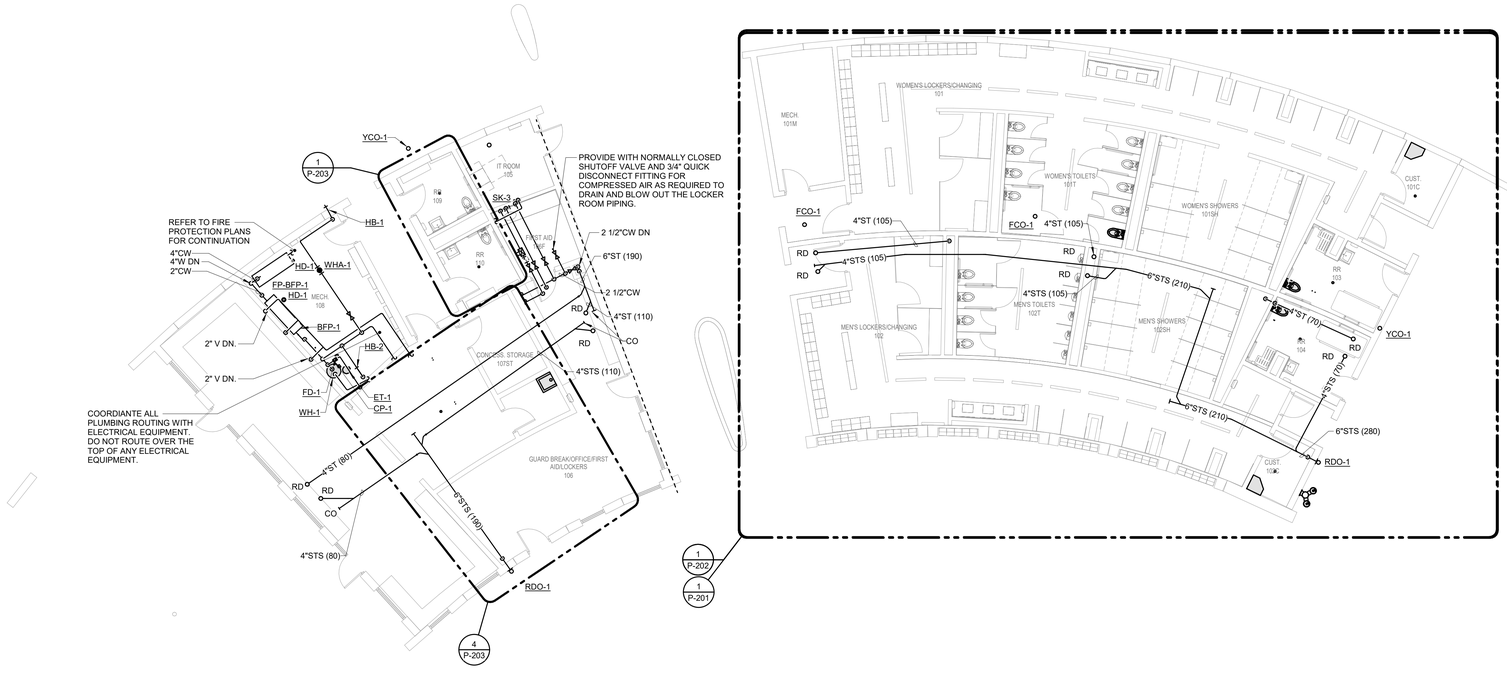
GENERAL SHEET NOTES:

1. ALL BALANCING VALVES TO BE 0.5 GPM UNLESS NOTED OTHERWISE.



1 FIRST FLOOR PLAN - PLUMBING - BATH HOUSE & CONCESSIONS

1/8" = 1'-0"

NORTH

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PRELIMINARY
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Revision Schedule

NO.	DATE	DESCRIPTION
	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

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REF. SCALE IN INCHES

PROJECT #25005326.00

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

FIRST FLOOR PLAN - PLUMBING - BATH HOUSE & CONCESSIONS

P-101A

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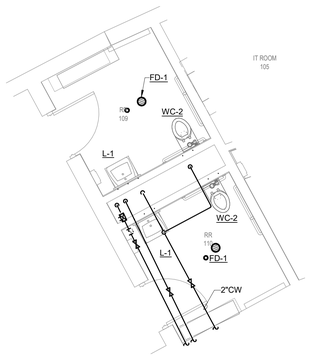
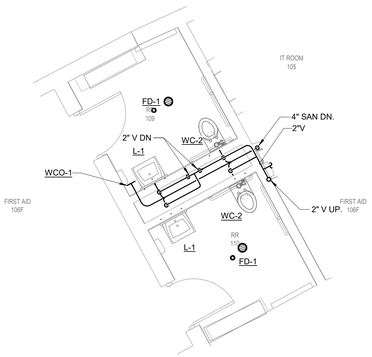
GENERAL SHEET NOTES:

1. ALL BALANCING VALVES TO BE 0.5 GPM UNLESS NOTED OTHERWISE.

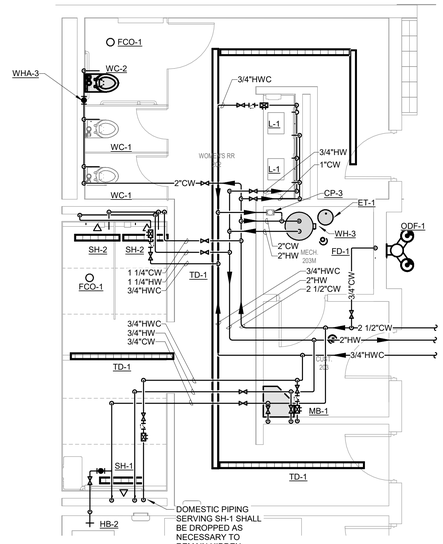


DOMESTIC

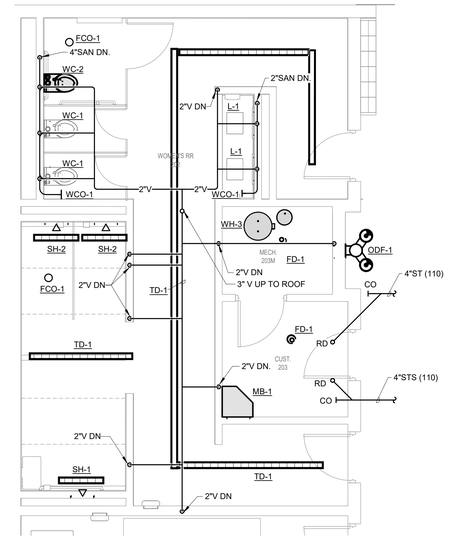


SAN-VENT

1 ENLARGED PLAN RR-1 TOILETS - PLUMBING
1/4" = 1'-0"

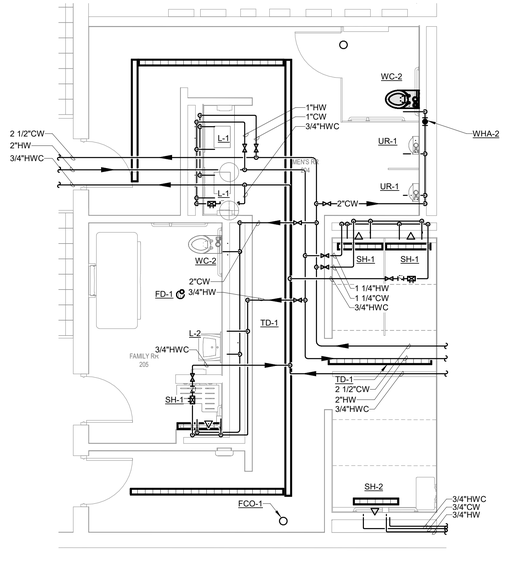


DOMESTIC



SAN-VENT

2 ENLARGED PLAN RR-1 - MECHANICAL & RESTROOM - PLUMBING
1/4" = 1'-0"



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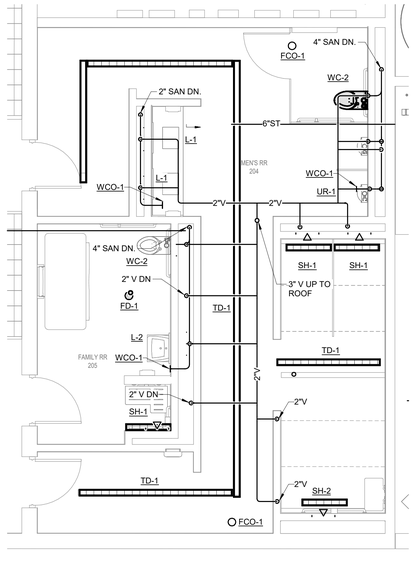
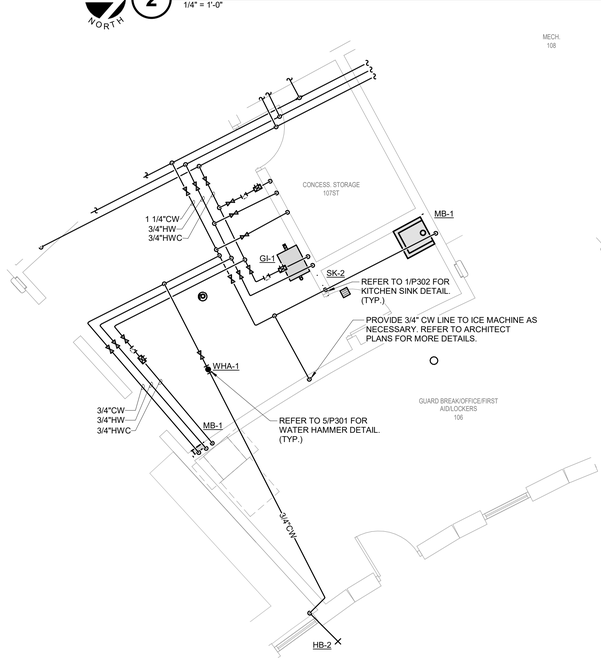


SAN-VENT

3 ENLARGED PLAN RR-2 - MECHANICAL & RESTROOM - PLUMBING
1/4" = 1'-0"



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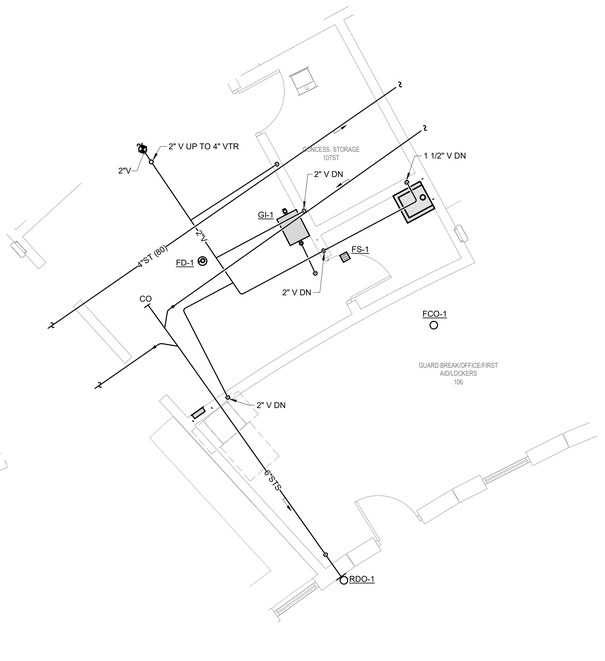

SAN-VENT

4 ENLARGED PLAN - CONCESSIONS PREP
1/4" = 1'-0"

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P: 630.527.2320

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REF. SCALE IN INCHES

PROJECT #25005326.00

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Revision Schedule

NO.	DATE	DESCRIPTION
	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

PLUMBING ENLARGED PLANS

P-203

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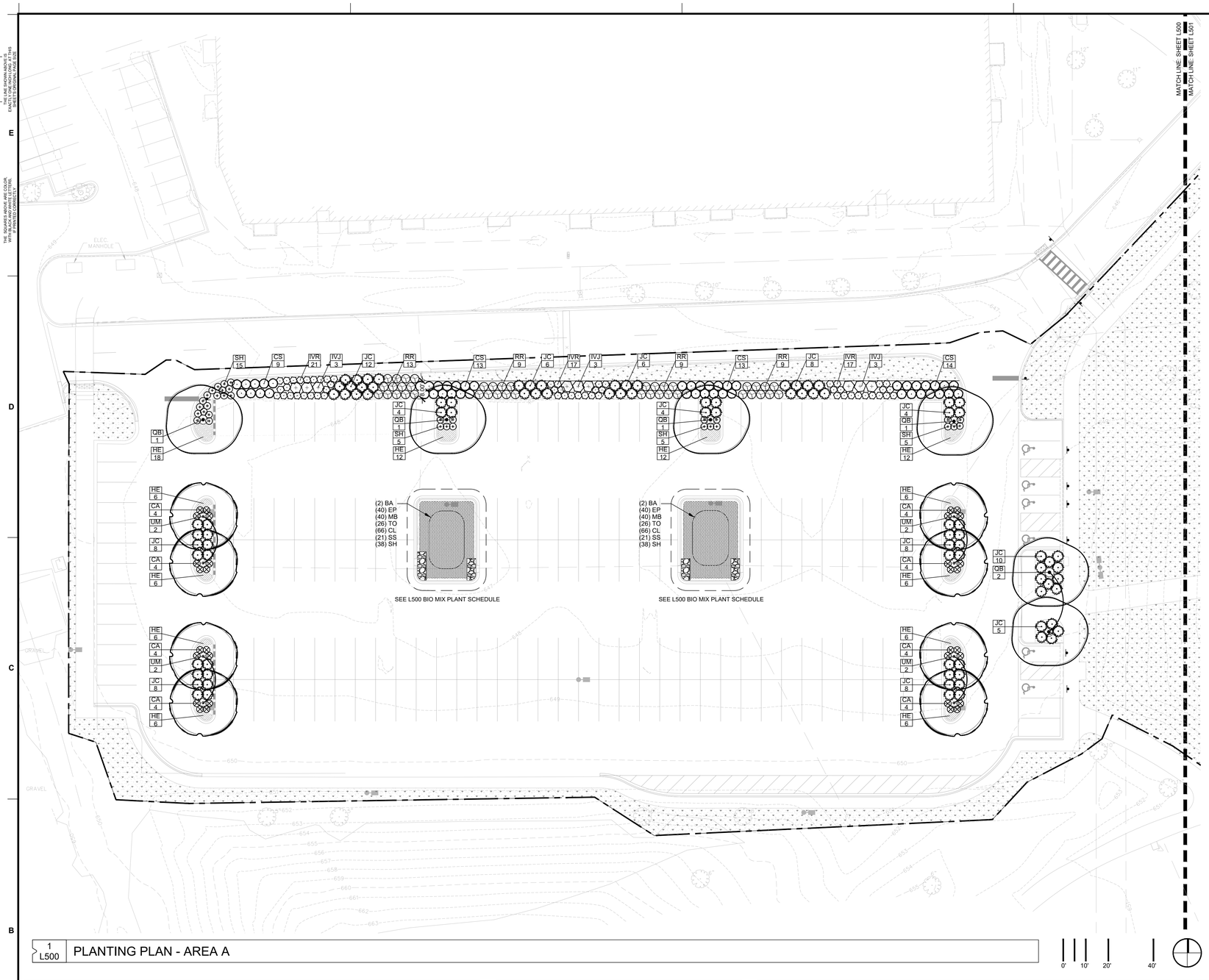

1 L500 PLANTING PLAN - AREA A

PLANTING GENERAL NOTES

A. PLANT QUANTITIES IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND ARE NOT GUARANTEED. QUANTITIES ON PLAN WILL PREVAIL IF DISCREPANCIES OCCUR.

B. THE CONTRACTOR SHALL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS WITHIN 21 DAYS FOLLOWING THE AWARD OF CONTRACT. TIMELY PROCUREMENT OF ALL PLANT MATERIAL IS ESSENTIAL TO THE SUCCESSFUL COMPLETION AND ACCEPTANCE OF THE PROJECT.

C. SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.

D. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1), MOST RECENT EDITION.

E. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT OR CHICO PROJECT MANAGERFOR APPROVAL PRIOR TO PLANTING.

F. PLANT FIVE TREES FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING THE REMAINING TREES ON SITE. DEMONSTRATION SHOULD ILLUSTRATE A COMPREHENSIVE UNDERSTANDING OF INFORMATION INCLUDED IN PLANTING DETAILS AND SPECIFICATIONS.

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J. CONTRACTOR SHALL PLACE SHREDDED BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3".

K. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.

HATCH LEGEND

- MULCH, HARDWOOD
- DECORATIVE GRAVEL; RE: 5/L800
- LOW MOW SEED, PER SPEC
- BIO-MIX PLANTING
- GROUNDCOVER PLANTING
- ORNAMENTAL GRASSES

VEHICULAR USE AREA INTERNAL PLANTING

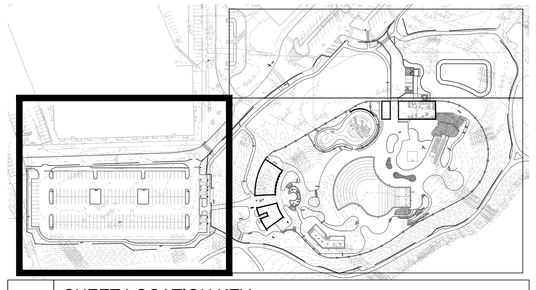
TOTAL VEHICULAR USE AREA	65,770 SF
TOTAL PARKING SPACES	192
INTERNAL PLANTING AREA REQUIRED (192 X 20)	3,840 SF
INTERNAL PLANTING AREA PROPOSED	3,842 SF
NUMBER OF INTERNAL TREES REQUIRED (192 / 15)	13
NUMBER OF INTERNAL EXISTING TREES TO REMAIN	0
NUMBER OF ADDITIONAL INTERNAL TREES TO BE PROVIDED	14

L500 BIO MIX PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	REMARKS
			PERENNIALS				
BA	4	*Baptisia alba*	WHITE WILD INDIGO	#1	CONT.	48" O.C.	
EP	80	*Echinacea purpurea*	PURPLE CONEFLOWER	#1	CONT.	18" O.C.	
MB	80	*Monarda bradburiana*	EASTERN BEEBLAM	#1	CONT.	18" O.C.	
TO	52	*Tradescantia ohiensis*	OHIO SPIDERWORT	#1	CONT.	18" O.C.	
			ORNAMENTAL GRASSES				
CL	132	*Chasmanthium latifolium*	INDIAN WOODOATS	#1	CONT.	PER PLAN	
SS	42	*Schizachyrium scparium*	LITTLE BLUESTEM	#1	CONT.	PER PLAN	
SH	76	*Sporobolus heterolepis*	PRAIRIE DROPSEED	#1	CONT.	PER PLAN	

L500 PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	REMARKS
			CANOPY TREES				
QB	6	*Quercus bicolor*	SWAMP WHITE OAK	3" CAL.	B&B	PER PLAN	SPECIMAN QUALITY
UM	8	*Ulmus* 'Morton Glossy'	TRIUMPH ELM	3" CAL.	B&B	PER PLAN	SPECIMAN QUALITY
			DECIDUOUS SHRUBS				
IVJ	9	*Ilex verticillata* 'Jim Dandy'	JIM DANDY HOLLY	#5	CONT.	PER PLAN	
IVR	54	*Ilex verticillata* 'Red Sprite'	RED SPRITE HOLLY	#5	CONT.	PER PLAN	
RR	40	*Rosa rugosa* 'Frau Dagmar Hastrup'	FRAU DAGMAR HASTRUP ROSE	#5	CONT.	PER PLAN	
			EVERGREEN SHRUBS				
CS	49	*Cornus sericea* 'Bailey'	BAILEY RED TWIGGED DOGWOOD	#5	CONT.	PER PLAN	
JC	96	*Juniperus chinensis* 'Kallay's Compact'	KALLAY'S COMPACT PFITZER JUNIPER	#5	CONT.	PER PLAN	
			PERENNIALS				
HE	26	*Hemerocallis* 'Black Eyed Stella'	DAYLILY 'BLACK EYED STELLA'	#1	CONT.	18" O.C.	TRIANGULAR SPACING;
	26	*Hemerocallis* 'Happy Returns'	DAYLILY 'HAPPY RETURNS'	#1	CONT.	18" O.C.	ALTERNATE VARIETIES; NO
	26	*Hemerocallis* 'Strawberry Candy'	DAYLILY 'STRAWBERRY CANDY'	#1	CONT.	18" O.C.	TWO ALIKE ADJACENT
			ORNAMENTAL GRASSES				
CA	32	*Calamagrostis x acutiflora* 'Karl Foerster'	FEATHER REED GRASS	#1	CONT.	PER PLAN	
SH	17	*Sporobolus heterolepis*	PRAIRIE DROPSEED	#1	CONT.	PER PLAN	



L500 SHEET LOCATION KEY

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CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
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847.478.9700

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Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

PLANTING PLAN

L500

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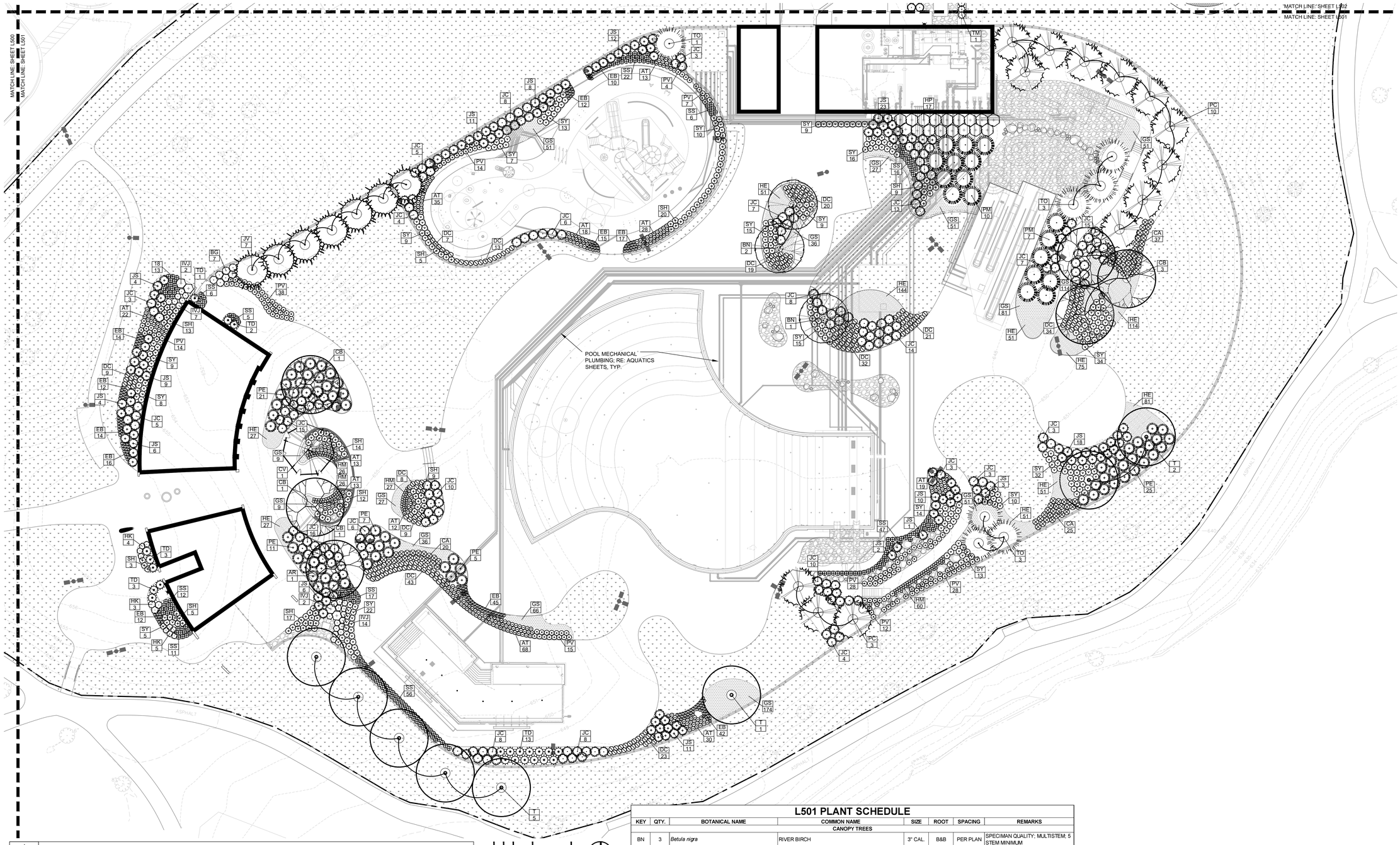
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS ORIGINAL DRAWING SCALE

THE SQUARES ABOVE ARE, COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p)\03 working\10 autocad\200 sheet set manager\SHEETS\L500 Planting Plan | SAVE DATE: 3/27/2026 12:25 PM BY: amarshall | PLOT DATE: 3/27/2026 12:53 PM BY: Anaya Marshall



1 L501 PLANTING PLAN - AREA B

PLANTING GENERAL NOTES

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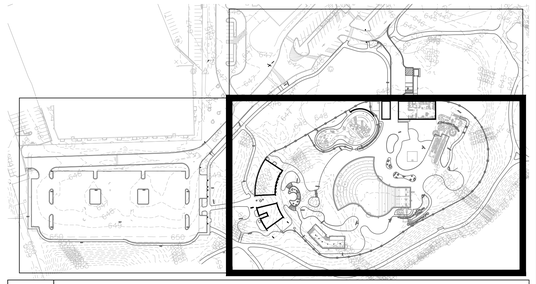
HATCH LEGEND

- MULCH, HARDWOOD
- DECORATIVE GRAVEL; RE: 5/L800
- LOW MOW SEED, PER SPEC
- BIO-MIX PLANTING
- GROUNDCOVER PLANTING
- ORNAMENTAL GRASSES

L501 PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	REMARKS
			CANOPY TREES				
BN	3	*Betula nigra*	RIVER BIRCH	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY; MULTISTEM: 5 STEM MINIMUM
CB	6	*Carpinus caroliniana*	AMERICAN HORNBEAM	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY; SINGLE STEM
CV	1	*Crataegus viridis* 'Winter King'	WINTER KING GREEN HAWTHORN	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
T	8	TRANSPLANT - SPECIED UNDITERMINED	TRANSPLANT - SPECIED UNDITERMINED	N/A	N/A	PER PLAN	N/A
			CONIFER TREES				
JV	7	*Juniperus virginiana*	EASTERN RED CEDAR	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
PC	13	*Picea pungens* 'Glauca'	COLORADO BLUE SPRUCE	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
TO	7	*Thuja occidentalis* 'Nigra'	DARK AMERICAN ARBORVITAE	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
			DECIDUOUS SHRUBS				
HP	17	*Hydrangea paniculata* 'Limelight'	LIMELIGHT HYDRANGEA	#5	CONT.	PER PLAN	
HK	12	*Hypericum kalmianum*	SUNNY BOULEVARD ST. JOHN'S WORT	#5	CONT.	PER PLAN	
IVJ	4	*Ilex verticillata* 'Jim Dandy'	JIM DANDY HOLLY	#5	CONT.	PER PLAN	
IVR	21	*Ilex verticillata* 'Red Sprite'	RED SPRITE HOLLY	#5	CONT.	PER PLAN	
			EVERGREEN SHRUBS				
BG	7	*Buxus x* 'Green Mountain'	GREEN MOUNTAIN BOXWOOD	#5	CONT.	PER PLAN	
JC	184	*Juniperus chinensis* 'Kallay's Compact'	KALLAY'S COMPACT PFITZER JUNIPER	#5	CONT.	PER PLAN	
JS	123	*Juniperus sabina* 'Buffalo'	BUFFALO JUNIPER	#5	CONT.	PER PLAN	
PE	69	*Pinus mugo* 'Enci'	ENCI MUGO PINE	#5	CONT.	PER PLAN	
PM	17	*Pinus mugo var.* 'Mugo'	MUGO PINE	#5	B&B	48" O.C.	
TM	1	*Taxus x media* 'Hicksii'	HICKS YEW	#5	CONT.	PER PLAN	
TD	22	*Taxus media* 'Densiformis'	DENSE INTERMEDIATE YEW	#5	CONT.	PER PLAN	
			PERENNIALS				
AT	254	*Asclepias tuberosa* 'Gay Butterflies'	GAY BUTTERFLIES MILKWEED	#1	CONT.	18" O.C.	
EB	209	*Echinacea hybrid* 'Baleveeen'	EVOLUTION COLORIFIC CONEFLOWER	#1	CONT.	18" O.C.	
HE	224	*Hemerocallis* 'Black Eyed Stella'	DAYLILY 'BLACK EYED STELLA'	#1	CONT.	18" O.C.	TRIANGULAR SPACING; ALTERNATE VARIETIES; NO TWO ALIKE ADJACENT
	224	*Hemerocallis* 'Happy Returns'	DAYLILY 'HAPPY RETURNS'	#1	CONT.	18" O.C.	
	224	*Hemerocallis* 'Strawberry Candy'	DAYLILY 'STRAWBERRY CANDY'	#1	CONT.	18" O.C.	
HM	139	*Heuchera micrantha* 'Palace Purple'	PALACE PURPLE CORAL BELLS	#1	CONT.	18" O.C.	
SY	250	*Salvia yangi*	RUSSIAN SAGE	#1	CONT.	18" O.C.	
			ORNAMENTAL GRASSES				
CA	82	*Calamagrostis x acutiflora* 'Karl Foerster'	FEATHER REED GRASS	#1	CONT.	PER PLAN	
DC	238	*Deschampsia caespitosa* 'Goldtau'	GOLD DEW TUFTED HAIR GRASS	#1	CONT.	PER PLAN	
PV	160	*Panicum virgatum* 'Shenandoah'	SHENANDOAH SWITCH GRASS	#1	CONT.	PER PLAN	
SS	216	*Schizachyrium scoparium* 'The Blues'	THE BLUES LITTLE BLUESTEM	#1	CONT.	PER PLAN	
SH	107	*Sporobolus heterolepis*	PRAIRIE DROPSEED	#1	CONT.	PER PLAN	
			GROUNDCOVERS				
GS	783	*Geranium sanguineum var.* STRIATUM	PROSTRATE BLOODY CRANESBILL	#1	CONT.	18" O.C.	



L501 SHEET LOCATION KEY

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Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

PLANTING PLAN

L501

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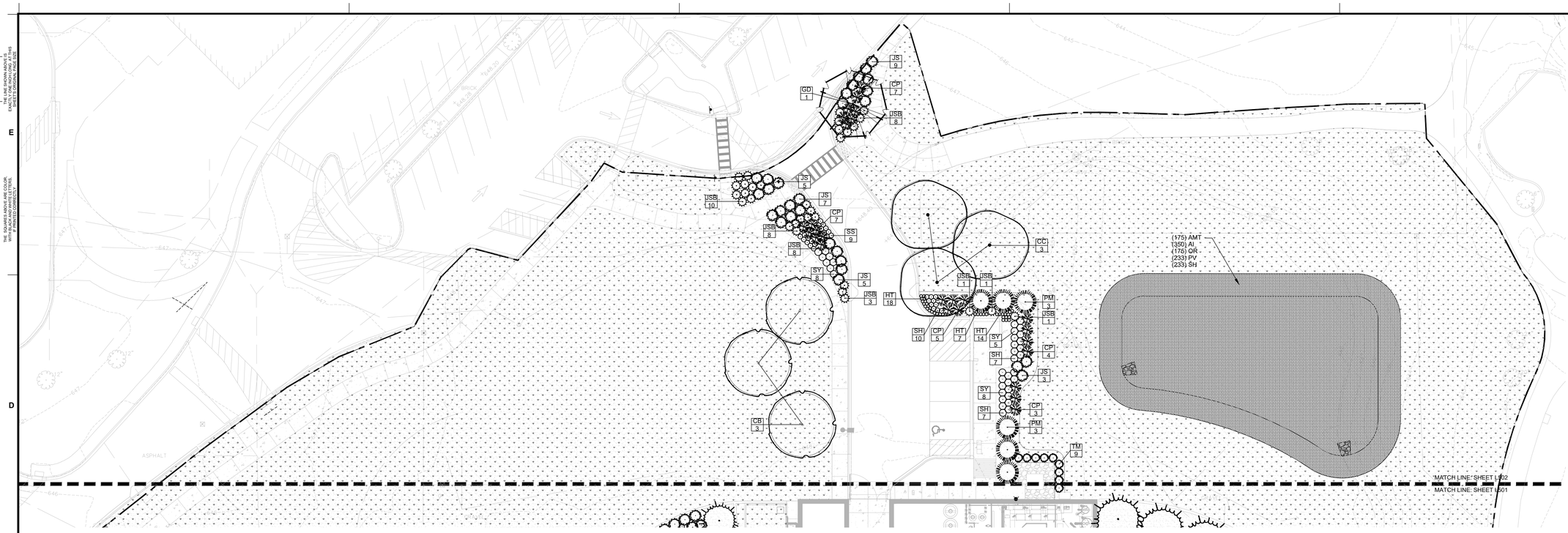

1 L502 PLANTING PLAN - AREA C

0' 10' 20' 40'

HATCH LEGEND

- MULCH, HARDWOOD
- DECORATIVE GRAVEL; RE: 5/L800
- LOW MOW SEED, PER SPEC
- BIO-MIX PLANTING
- GROUNDCOVER PLANTING

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E. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT OR CHICO PROJECT MANAGERFOR APPROVAL PRIOR TO PLANTING.

F. PLANT FIVE TREES FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING THE REMAINING TREES ON SITE. DEMONSTRATION SHOULD ILLUSTRATE A COMPREHENSIVE UNDERSTANDING OF INFORMATION INCLUDED IN PLANTING DETAILS AND SPECIFICATIONS.

G. PROVIDE A MINIMUM OF 14 DAYS NOTICE FOR APPROVAL OF PLANT LAYOUT AND SAMPLE TREE PLANTINGS.

H. THE CONTRACTOR SHALL REPORT SUBSURFACE SOIL OR DRAINAGE PROBLEMS TO THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

I. SEED ALL AREAS WITHIN CONTRACT LIMITS, NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS, UNLESS OTHERWISE NOTED.

J. CONTRACTOR SHALL PLACE SHREDDED BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3".

K. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.

PLANT SCHEDULE "Estimated quantities for reference only"

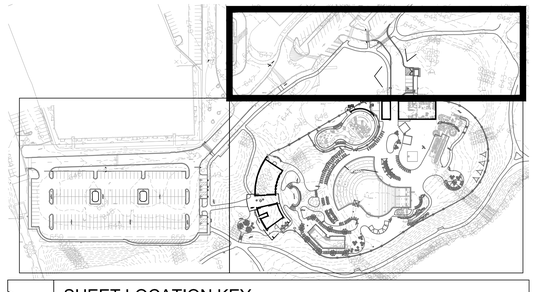
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/REMARKS
			CANOPY TREES			
AR	6	Acer rubrum 'October Glory'	OCTOBER GLORY MAPLE	3" CAL	B&B	SPACING PER PLAN
BN	6	Betula nigra	RIVER BIRCH	3" CAL	B&B	SPACING PER PLAN
CB	4	Cercis canadensis 'Northern Strain	EASTERN REDBUD	3" CAL	B&B	SPACING PER PLAN
CC	3	Carpinus caroliniana 'Native Flame'	AMERICAN HORNBEAM 'NATIVE FLAME'	3" CAL	B&B	SPACING PER PLAN
T	8	TRANSPLANT - SPECIES UNDETERMINED	TRANSPLANT - SPECIES UNDETERMINED	NA	NA	SPACING PER PLAN
			CONIFER TREES			
JV	10	Juniperus virginiana	EASTERN RED CEDAR	6'	CONT.	SPACING PER PLAN
PC	13	Picea pungens	BLUE SPRUCE	6'	CONT.	SPACING PER PLAN
TO	6	Thuja occidentalis	NORTHERN WHITE CEDAR	6'	CONT.	SPACING PER PLAN
			DECIDUOUS SHRUBS			
HP	5	Hydrangea paniculata 'Ruby'	ANGEL'S BLUSH HYDRANGEA	#5	CONT.	SPACING PER PLAN
IV	8	Ilex verticillata	WINTERBERRY HOLLY	#2	CONT.	SPACING PER PLAN
SA	33	Sphaeralcea ambigua 'Orange Crush'	ORANGE CRUSH DESERT GLOBEMALLOW	#2	CONT.	SPACING PER PLAN
			EVERGREEN SHRUBS			
BG	7	Buxus x 'Green Mountain'	GREEN MOUNTAIN BOXWOOD	#5	CONT.	SPACING PER PLAN
CP	29	Chamaecyparis pisifera 'Vintage Gold'	VINTAGE GOLD FALSE CYPRESS	#5	CONT.	SPACING PER PLAN
TM	9	Taxus x media 'Hicksii'	HICKS YEW	#5	CONT.	SPACING PER PLAN
JS	135	Juniperus sabina 'Buffalo'	BUFFALO JUNIPER	#5	CONT.	SPACING PER PLAN
JSB	171	Juniperus squamata 'Blue Star'	BLUE STAR JUNIPER	#5	CONT.	SPACING PER PLAN
PM	48	Pinus mugo	MUGO PINE	#5	CONT.	SPACING PER PLAN
			PERENNIALS			
AT	227	Asclepias tuberosa 'Gay Butterflies'	GAY BUTTERFLIES MILKWEED	#1	CONT.	SPACING PER PLAN
EB	236	Echinacea hybrid 'Balevoeen'	EVOLUTION COLORIFIC CONEFLOWER	#1	CONT.	SPACING PER PLAN
HT	122	Heuchera 'TNHEUSSDN'	SIRENS' SONG DARK NIGHT HEUCHERA	#1	CONT.	SPACING PER PLAN
SY	153	Salvia yangii	RUSSIAN SAGE	#1	CONT.	SPACING PER PLAN
			ORNAMENTAL GRASSES			
MC	150	Muhlenbergia capillaris	PINK GULF MUHLY GRASS	#1	CONT.	SPACING PER PLAN
PV	233	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCH GRASS	#1	CONT.	SPACING PER PLAN
SH	230	Sporobolus heterolepis	PRAIRIE DROPSEED	#1	CONT.	SPACING PER PLAN

BIO MIX PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/REMARKS
			PERENNIALS			
AMT	175	Amsonia tabernaemontana	EASTERN BLUESTAR	#1	CONT.	SPACING PER PLAN
AI	350	Asclepias incarnata	SWAMP MILKWEED	#1	CONT.	SPACING PER PLAN
OR	175	Osmunda regalis	ROYAL FERN	#1	CONT.	SPACING PER PLAN
			ORNAMENTAL GRASSES			
PV	233	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCH GRASS	#1	CONT.	SPACING PER PLAN
SH	230	Sporobolus heterolepis	PRAIRIE DROPSEED	#1	CONT.	SPACING PER PLAN

BIO MIX PLANTING NOTES

A. PLANTS ARE TO BE EVENLY DISTRIBUTED AND TRIANGULAR PLANTED; RE: 3/L800.



L502 SHEET LOCATION KEY

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AQUATICS DESIGNER
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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

PLANTING PLAN

L502

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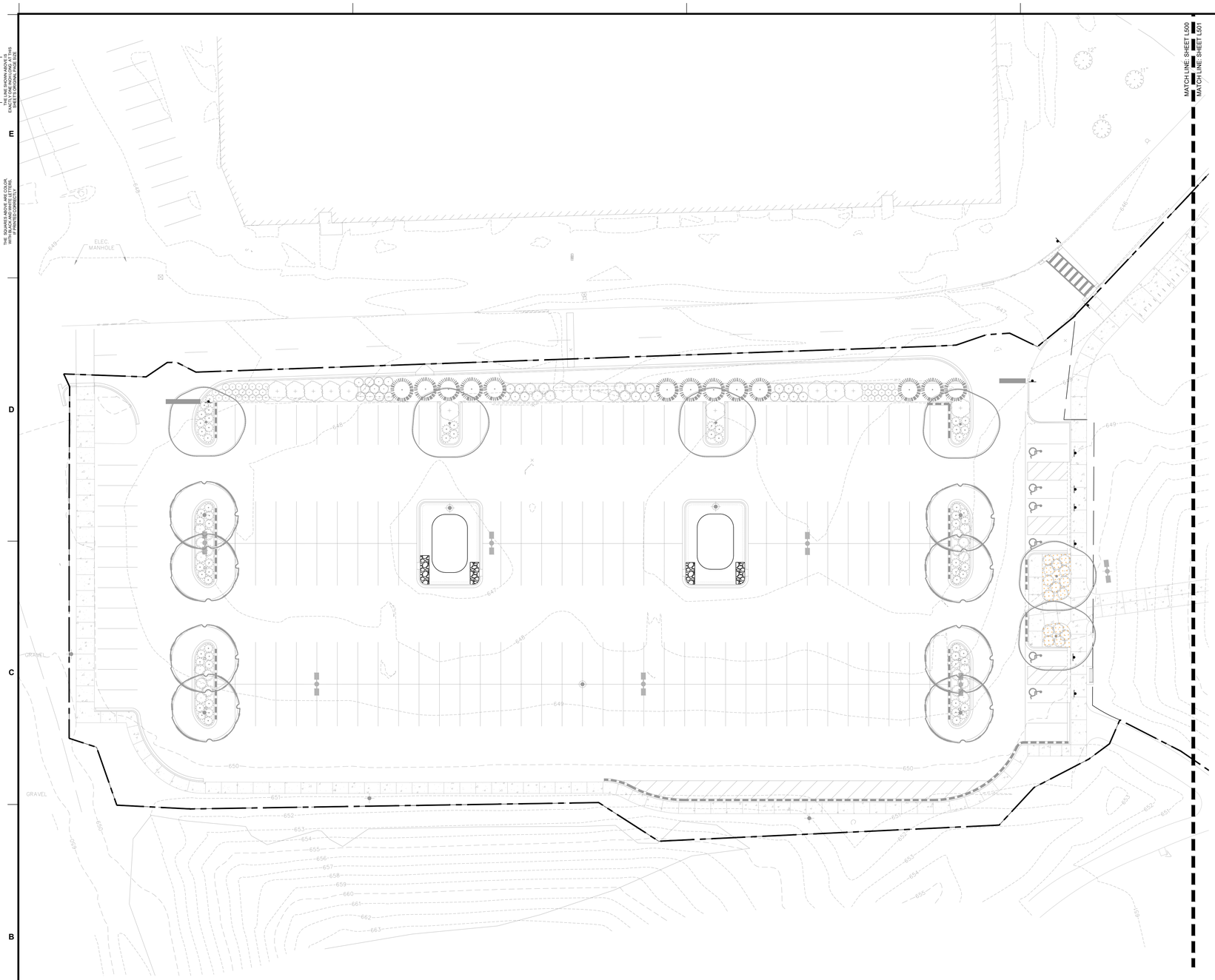


1 L510 IRRIGATION PLAN - AREA A

0' 10' 20' 40'

IRRIGATION GENERAL NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. DESIGN OF IRRIGATION IS DELEGATED TO THE CONTRACTOR THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF PLANTING IRRIGATION SPECIFICATIONS (32 84 23) PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE WITHIN THE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

D. PROVIDE AND MAINTAIN WARNING SIGNS, BARRICADES AND CONSTRUCTION FENCING AS REQUIRED BY LOCAL AUTHORITIES.

E. FLAG QUICK COUPLER LOCATIONS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

F. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION OF ALL EQUIPMENT TO PROVIDE A WORKING IRRIGATION SYSTEM FOR THE OWNER. SEE ELECTRICAL AND CIVIL SHEETS FOR WORK BY OTHERS.

G. CONTRACTOR TO VERIFY PLUMBING EQUIPMENT (BACKFLOW, ETC) USED WILL MEET DEMANDS OF IRRIGATION AS RECOMMENDED BY MANUFACTURER AND ARE WITHIN TOLERANCES OF SPECIFICATIONS. BACKFLOW DEVICES ARE TO BE INSPECTED BY A CERTIFIED TECHNICIAN WHERE REQUIRED. CONTRACTOR TO COORDINATE ALL INSPECTIONS AS REQUIRED BY CODE.

H. ALL IRRIGATION EQUIPMENT AND PIPING TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES THAT MAY APPLY.

I. ALL PRODUCT SUBSTITUTION REQUESTS ARE TO BE APPROVED BY ADDENDUM PRIOR TO BID.

J. IRRIGATION SLEEVES SHALL BE SCHEDULE 40 PVC AND INSTALLED BY THE IRRIGATION CONTRACTOR. SLEEVES SHALL BE MINIMUM 4" DIAMETER. SCHEDULE 40 PVC CONDUIT IS REQUIRED FOR CONTROL WIRE. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. WHERE REQUIRED DIRECTIONAL BORING OF PIPE SLEEVES UNDER CONCRETE SHALL BE INCLUDED AT NO ADDITIONAL COST.

K. INSTALL LATERAL LINES WITH A MINIMUM COVER OF 12" AND MAINLINES WITH A MINIMUM COVER OF 24".

L. ADJUST ALL IRRIGATION HEADS TO PROPER SPRAY DISTRIBUTION, VERIFY NOZZLE INSTALLATION IS PER PLANS.

M. AS BUILT DRAWINGS ARE INCLUDED IN THE CONSTRUCTION CONTRACT AND SHALL BE PROVIDED AND APPROVED PRIOR TO FINAL PAYMENT.

N. 2-WIRE SYSTEMS SHALL USE 14-2 CABLE WITH SOLID COPPER CONDUCTORS; INSULATED FOR DIRECT BURIAL AND COMPATIBLE WITH CONTROL SYSTEM SPECIFIED. WIRE SPLICES SHALL BE LOCATED AT VALVE BOXES. ALL CONNECTIONS SHALL BE MADE WITH 3M DBY WATERTIGHT WIRE CONNECTORS.

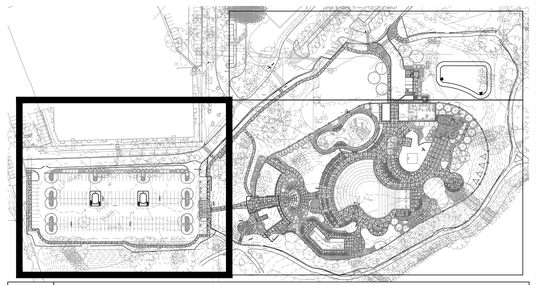
O. SET VALVES AND VALVE BOXES TO ALIGN WITH ADJACENT SITE FEATURES (SIDEWALKS, CURBS, ETC). WHERE MULTIPLE VALVE BOXES OCCUR IN A GROUP, ALIGN VALVES AND VALVE BOXES TO BE PARALLEL TO THE ADJACENT VALVE(S) IN THE GROUP.

IRRIGATION LEGEND

DRIP IRRIGATION (31,872 SF)

LOW MOW SEED ROTARY NOZZLE SPRINKLER IRRIGATION (24,784 SF)

THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.



L510 SHEET LOCATION KEY

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WATER TECHNOLOGY
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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

IRRIGATION PLAN

L510

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF THIS IS NOT THE CASE, ADJUST PRINTER SETTINGS ACCORDINGLY

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS. IF NOT, ADJUST PRINTER SETTINGS

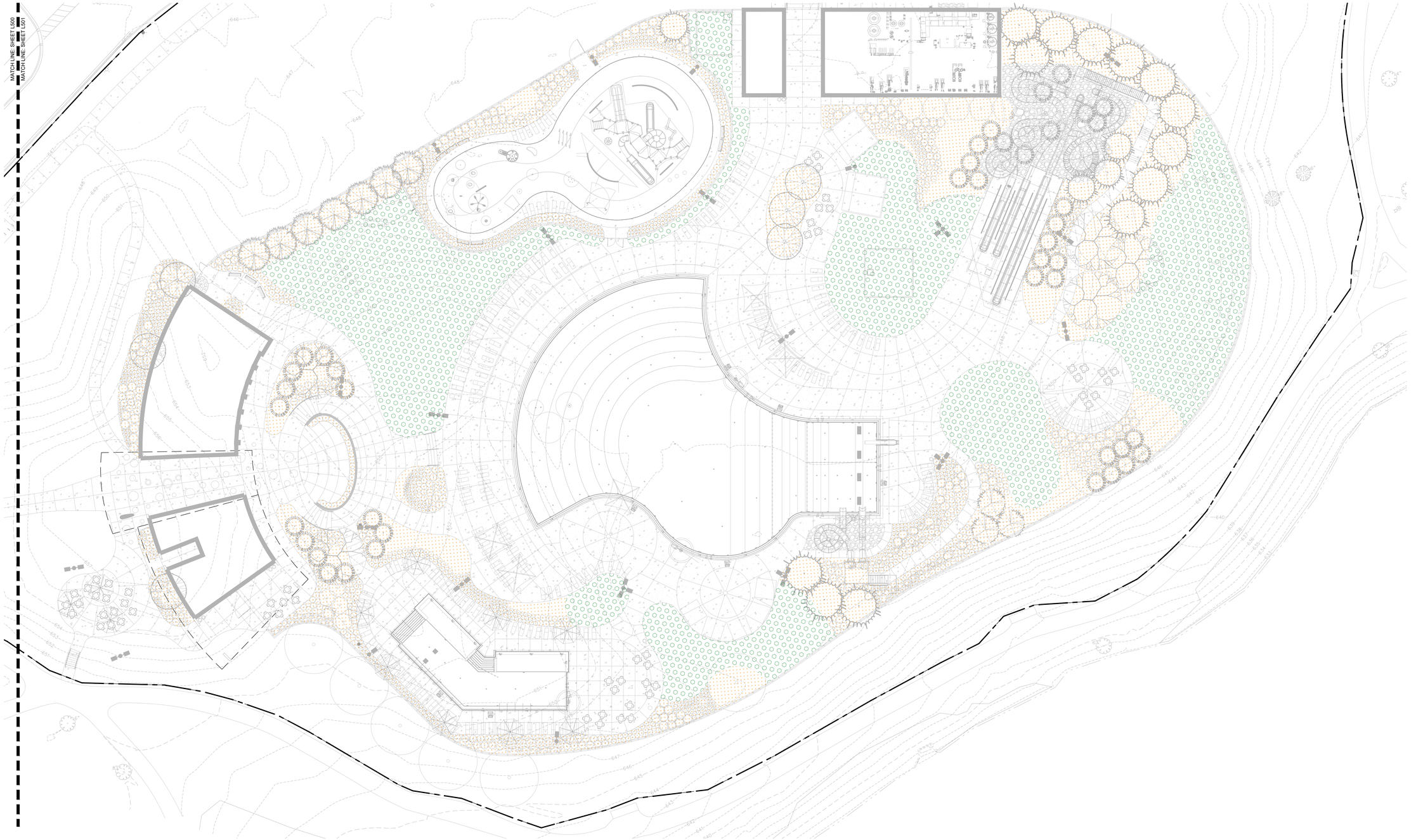
File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, pl)\03 working\10 autocad\200 sheet set manager\SHEETS\L510 Irrigation Plan / SAVE DATE: 3/5/2026 10:41 AM BY: mmiller / PLOT DATE: 3/5/2026 1:55 PM BY: Mark Miller

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT HAS BEEN REDUCED OR ENLARGED, ADJUST SCALES ACCORDINGLY

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REFERENCE

MATCH LINE: SHEET L500

MATCH LINE: SHEET L501



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1 L511 IRRIGATION PLAN - AREA B

0' 10' 20' 40'

IRRIGATION LEGEND

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LOW MOW SEED ROTARY NOZZLE SPRINKLER IRRIGATION (24,784 SF)

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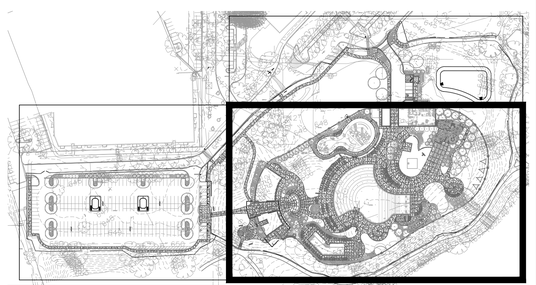

L511 SHEET LOCATION KEY

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847.478.9700

PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

IRRIGATION PLAN

L511

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1 L512 IRRIGATION PLAN - AREA C

0' 10' 20' 40'

IRRIGATION GENERAL NOTES

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IRRIGATION LEGEND

DRIP IRRIGATION (31,872 SF)

LOW MOW SEED ROTARY NOZZLE SPRINKLER IRRIGATION (24,784 SF)

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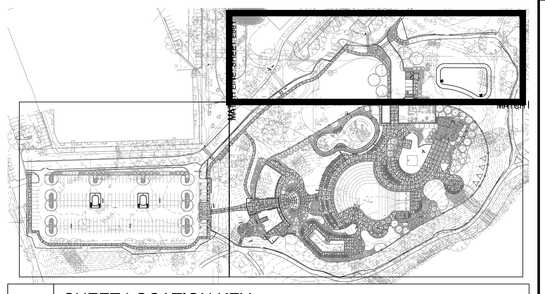

L512 SHEET LOCATION KEY

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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

IRRIGATION PLAN

L512

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ARCHITECTURAL SCALE WHEN PLOTTED

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY

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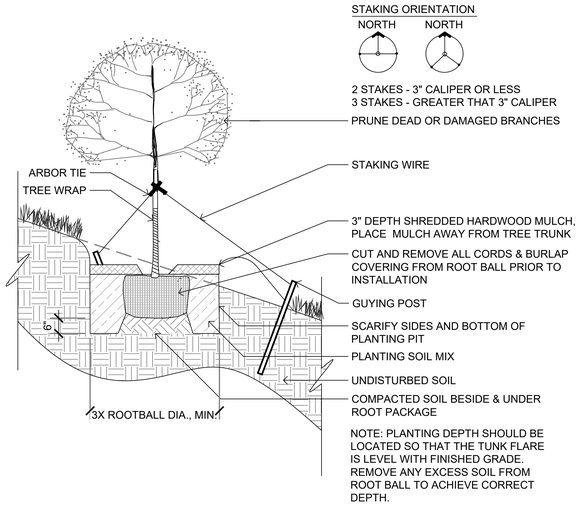
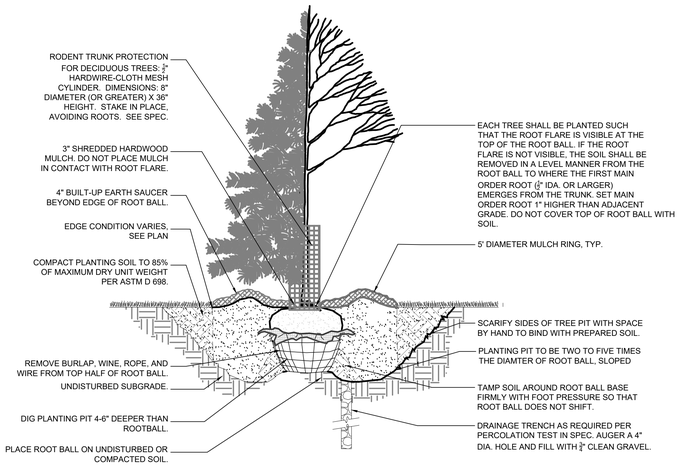
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS PLOT SCALE IS CORRECT

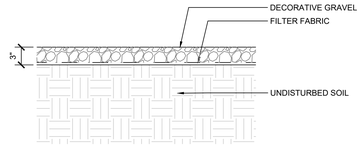
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN PROPER REGISTRATION



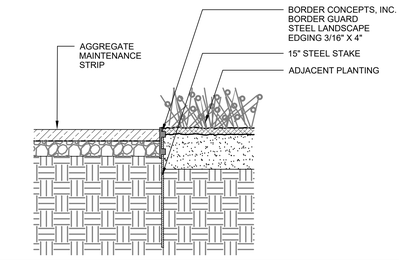
7 L800 TREE INSTALLATION ON SLOPE SCALE: 1/2" = 1'-0"



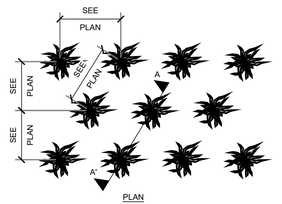
6 L800 TREE INSTALLATION SCALE: 1/2" = 1'-0"



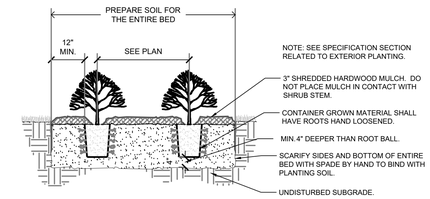
5 L800 DECORATIVE GRAVEL MULCH, TYP. SCALE: 1/2" = 1'-0"



4 L800 STEEL EDGING SCALE: 3/4" = 1'-0"

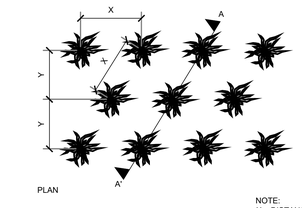


PLAN



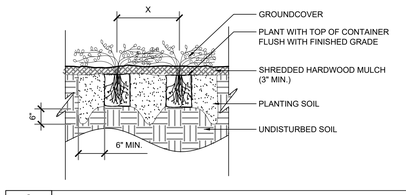
SECTION A'-A

3 L800 SHRUB INSTALLATION SCALE: 1/2" = 1'-0"

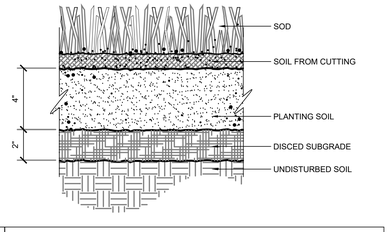


PLAN

NOTE:
X = DISTANCE SPECIFIED WITHIN PLANT SCHEDULE
Y = DISTANCE 'X' MULTIPLIED BY .866



2 L800 GROUNDCOVER INSTALLATION SCALE: 1/2" = 1'-0"



1 L800 SOD INSTALLATION SCALE: 3" = 1'-0"

CONFLUENCE

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Vernon Hills, IL 60061
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AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

PLANTING DETAILS

L800

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File Location: T:\Projects\2025\25070_wheeling family aquatics (village of wheeling, p163 working\10 autocad\200 sheet set manager\SHEETS\Site Details / SAVE DATE: 3/5/2026 1:41 PM BY: mmiller / PLOT DATE: 3/5/2026 2:01 PM BY: Mark Miller

~~Jan 30, 2026~~ Feb 26, 2026

RE: Wheeling Aquatic Center, 25070
Narrative Description

Project Address: 105 Community Boulevard, Wheeling, Illinois

Prepared By: Confluence, Inc.
ATTN: Terry Berkbuegler, PLA
Principal + Landscape Architect
325 W Huron Street, Suite 602
Chicago, Illinois 60654

Owner and Developer Information
Owner and or Developer: Wheeling Park District
ATTN: Jan Buchs
Executive Director
100 Community Blvd
Wheeling, IL 60090

Summary of Proposed Development and Intent
The new Wheeling Aquatic Center project consists of the comprehensive redevelopment of the existing outdoor aquatic facilities at Heritage Park, located at 105 Community Boulevard in Wheeling, Illinois. The proposed development is intended to create a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency, and integrates cohesively with surrounding park amenities and landscape features.

The overall design prioritizes clear site organization, intuitive circulation, and safe operations. A centrally located bathhouse and concessions building serves as the primary public entry point into the aquatic complex, establishing a clear arrival sequence from existing parking areas and park circulation routes. Controlled access points and logical internal circulation support efficient staffing, clear wayfinding, and patron safety.

The anticipated general public operating hours for the Wheeling Aquatic Center are 10:00 a.m. to 7:00 p.m., 7 days per week during the summer season. Limited morning programming may occur prior to public opening, including swim lessons and small group activities. Occasional special events may also be scheduled in the evening after public closing hours. These extended use periods will be limited in frequency and managed by Park District staff to ensure compatibility with surrounding park uses.

Description of Proposed Buildings
The design of the main bathhouse and mechanical buildings for the Wheeling Aquatics Center is based on providing durable, functional structures that meet the diverse operational needs of the facility while creating an engaging and enjoyable aesthetic experience for users.

The main bathhouse building is conceived as two interconnected structures separated by a central entry space, defined by an illuminated perforated metal entry pylon and an elevated cantilevered roof. The north portion of the building contains unconditioned changing areas, toilet rooms, and showers. These spaces are designed to comply with all applicable Illinois Plumbing Code and Illinois Department of Public Health requirements for aquatic facilities. Additional access control points allow limited toilet room use during shoulder seasons when the pools are closed. Individual unisex and family changing/toilet rooms are also provided in this portion of the building.

The south portion of the bathhouse contains conditioned spaces, including concessions, an IT room, guard support areas, first aid, and mechanical functions. The concession area is designed to serve both aquatics center patrons and general park users, while the toilet rooms provide year-round convenience for park visitors. The guard support area is strategically located to maintain clear views of adjacent aquatic areas for security and operational control. Ample daylighting is provided throughout the building via clerestory glazing located beneath the continuous roof overhang that encircles the structure.

- The total enclosed area of the main bathhouse building is 6,754 square feet.

The architectural character of the building is driven by the goal of expressing its aquatic function through form, color, and texture while maintaining a cost-effective and durable building envelope. Precast concrete was selected as the primary exterior material due to its durability, economy, and aesthetic versatility. A recessed wave formliner creates a crescendo wave pattern across the primary west façade, drawing attention toward the main entry. Circular “bubble” elements composed of blue-colored glass punctuate the elevation, allowing daylight into interior spaces and animating the façade at night. As an alternate, these elements may be constructed as circular recessed panels with embedded crushed blue glass. Subtle variations in color and texture distinguish the smooth formliner areas from the surrounding acid-etched panels. The east and west curved wall elements are connected by flat, acid-etched panels, with the east curved walls utilizing the wave formliner to frame glazed openings and exterior kit lockers.

The mechanical building located to the north incorporates many of the same design attributes as the main bathhouse. A central breezeway divides the structure and serves as a controlled access point for day campers, maintenance personnel, and emergency vehicles. Smaller secondary toilet rooms, lockers, showers, and a concessions area are included to help distribute use and reduce congestion at the main bathhouse. The majority of the eastern portion of the building houses mechanical systems serving all pools. Architecturally, the building is enclosed with precast concrete panels that mirror the bathhouse design, including the wave formliner and blue “bubble” elements.

- The total enclosed area of the mechanical building is 5,400 square feet.

Site Features and Uses

The aquatic program includes a diverse range of water features designed to serve a wide range of ages, abilities, and recreational preferences. These include a recreation pool with varied depths for swimming and general use, a resort style leisure pool with shallow lounging areas, and a zero depth entry play structure that supports inclusive access for younger users and individuals with mobility limitations. A separate splash pad provides interactive water play without the need for swimming. Active recreation elements include a slide complex with multiple body slides, drop slides, and a vertical drop slide, strategically located to maintain separation from leisure areas while providing

visual interest and excitement. A diving board area is incorporated into the recreation pool to support traditional aquatic programming.

Supporting site amenities include shaded seating areas with umbrellas and shade structures, cabanas, party shelters, landscaped lawn terraces, outdoor storage, screened service areas, and an overlook terrace with an integrated water feature. Pedestrian circulation, grading, stormwater management, and landscape improvements are coordinated throughout the site to enhance accessibility, manage drainage, and reinforce connections to the broader Heritage Park system.

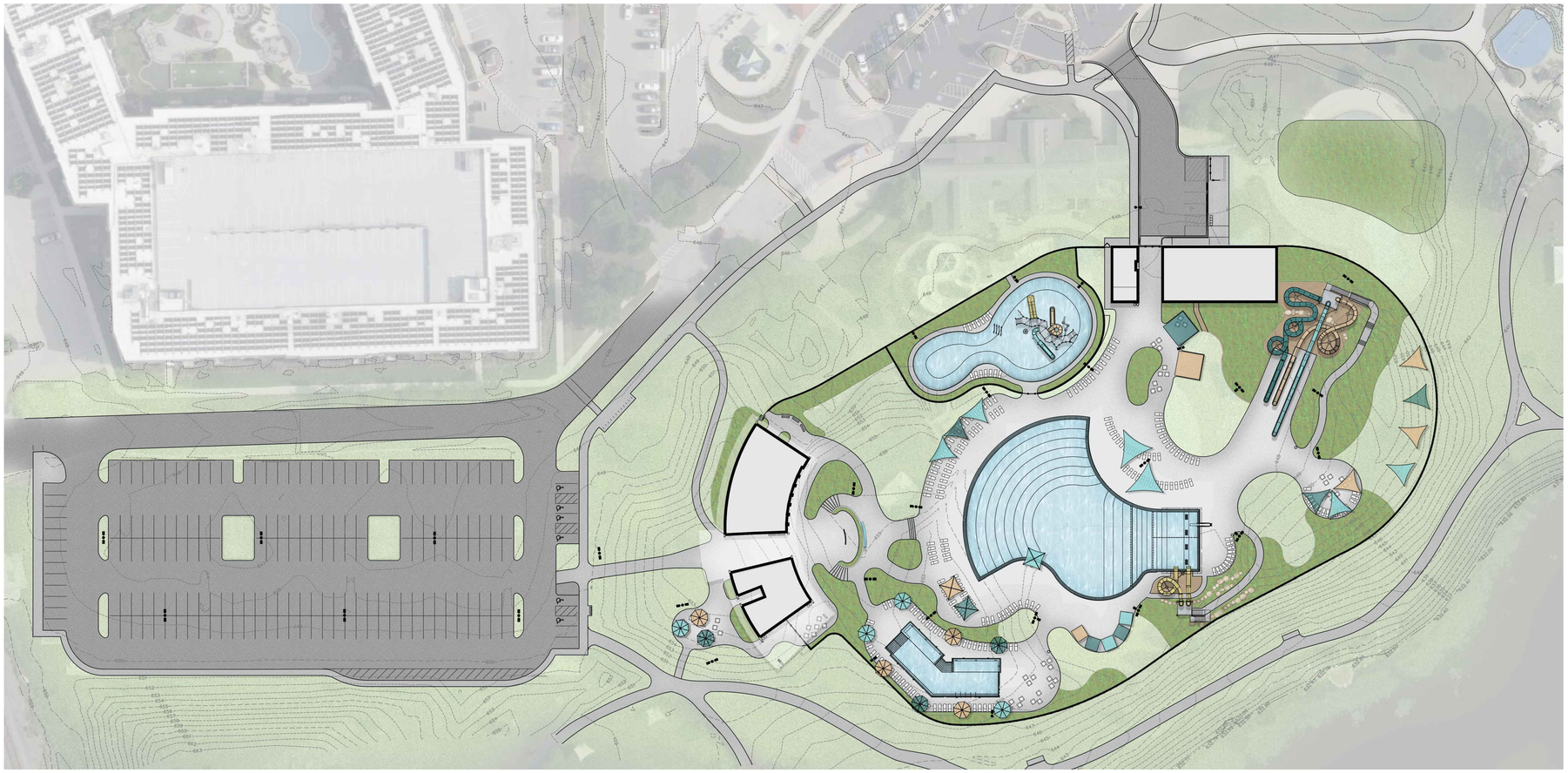
Site and Area Calculations

- Total contiguous ownership interest: 103.8 acres
- Total Development Area: 7.34 acres
- Total Building(s) Floor Area: 12,154 square feet
- Total Number of Parking Spaces
    - West parking lot: 193 pool spaces proposed vs. 188 pool spaces required per Ordinance No. 2017-5118
    - Overall Park District property: 673 required, 713 provided
- Total Number of Bike Spaces
    - 24 spaces (12 racks, 2 spaces per rack)
- Total Impervious Surface Area: 2.43 (proposed); 2.35 (Existing)
- Total Non-Impervious Green Space: 4.31 (proposed); 4.53 (existing) square feet
- Open Pool water: 0.60 acres (proposed); 0.46 acres (existing)
- Total maintenance area*: 1.46 acres
    - *note: maintenance area is for west parking lot asphalt repavement

WHEELING PARK DISTRICT AQUATICS CENTER

WHEELING PARK DISTRICT

105 COMMUNITY BLVD
Wheeling, IL



NOTE: THE ABOVE SITE RENDERING IS PROVIDED FOR DESIGN INTENT ONLY. FINAL LAYOUT AND DESIGN MAY VARY FROM RENDERING.

DESIGN DISCLAIMER

THESE PLANS ARE INTENDED SOLELY FOR THE WHEELING PARK DISTRICT AQUATICS CENTER AT HERITAGE PARK LOCATED AT 105 COMMUNITY BLVD, WHEELING IL 60090. THEY MAY NOT BE REPRODUCED, DISTRIBUTED, UPLOADED TO ARTIFICIAL INTELLIGENCE PLATFORMS, OR ALTERED IN ANY FORM WITHOUT THE EXPRESS WRITTEN CONSENT OF THE PROJECT TEAM LISTED ON THIS COVER SHEET. UNAUTHORIZED USE, INCLUDING USE OF ARTIFICIAL INTELLIGENCE TO ANALYZE, INTERPRET, MODIFY, OR GENERATE DERIVATIVE WORKS, IS STRICTLY PROHIBITED.

BID PACKAGE COORDINATION

THIS PROJECT IS BEING ISSUED AND BID IN MULTIPLE BID PACKAGES. THE CONTRACT DOCUMENTS ASSOCIATED WITH THIS PACKAGE REPRESENT A PORTION OF THE OVERALL PROJECT SCOPE. ALL BID PACKAGES COLLECTIVELY CONSTITUTE A SINGLE, COHESIVE PROJECT.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW, COORDINATE, AND VERIFY ALL APPLICABLE CONTRACT DOCUMENTS ACROSS ALL BID PACKAGES, INCLUDING DRAWINGS, SPECIFICATIONS, ADDENDA, AND RELATED DOCUMENTS. THE CONTRACTOR SHALL ENSURE THAT THE WORK INCLUDED IN THIS PACKAGE IS COORDINATED WITH WORK SHOWN OR SPECIFIED IN PREVIOUSLY ISSUED BID PACKAGES FOR THIS PROJECT.

FAILURE TO REVIEW AND COORDINATE THE FULL SET OF CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING A COMPLETE, COORDINATED, AND FUNCTIONAL PROJECT.

AQUATIC STRUCTURAL ENGINEER
GRAEF
116 S ADAMS STREET, SUITE 201
GREEN BAY, WI 54301
PH: (920) 592-9442
BEAU SANDERS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED STRUCTURAL ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JULY 8, 2009
SHEETS COVERED BY SEAL: "PL"

AQUATIC DESIGN
WATER TECHNOLOGY INC (WTI)
100 PARK AVENUE
BEAVER DAM, WI 53916
PH: (920) 887-7371
BRIAN FREBER

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SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: MARCH 4, 2010
SHEETS COVERED BY SEAL: "PL"

ELECTRICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
PAUL SILIUNAS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE:
SHEETS COVERED BY SEAL: "E"

PLUMBING & MECHANICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
RYAN SPAULDING

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JAN 4, 2011
SHEETS COVERED BY SEAL: "P" AND "M"

STRUCTURAL ENGINEER
McCLUSKEY ENGINEERING
1887 HIGH GROVE LN
NAPERVILLE, IL 60540
PH: (630) 717-5395
ANDREW ECK

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED STRUCTURAL ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JUN 21, 2004
SHEETS COVERED BY SEAL: "S"

ARCHITECT
LEGAT ARCHITECTS, INC.
49 W RANDOLPH ST
CHICAGO, IL 60601
PH: (312) 258-9595
TED HAUG

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: DEC 20, 1985
SHEETS COVERED BY SEAL: "A"

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC
625 FOREST EDGE DRIVE
VERNON HILLS, IL 60061
PH: (847) 478-9700
DON MATTHEWS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF ILLINOIS

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: FEB 9, 1993
SHEETS COVERED BY SEAL: "C"

LANDSCAPE ARCHITECT
CONFLUENCE
325 W HURON STREET, SUITE 602
CHICAGO, ILLINOIS 60654
PH: (312) 663-5494
TERRY BERKBUEGLER

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT AND PRINCIPAL OF THE PRIME DESIGN CONSULTANT. I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF ILLINOIS. ALL CONSULTANT WORK NOT PREPARED BY ME WAS PREPARED BY PERSONS QUALIFIED UNDER THE RESPONSIBLE CHARGE OF EACH PROFESSIONAL WHOSE SEAL APPEARS HEREON.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JULY 2, 2024
SHEETS COVERED BY SEAL: "L"

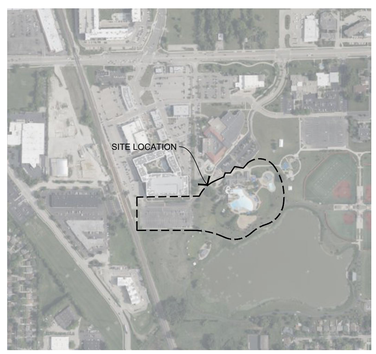
NOT FOR CONSTRUCTION - REVIEW ONLY

CONFLUENCE

SHEET INDEX

SHEET NO.	SHEET TITLE
G100	COVER SHEET
	LANDSCAPE SHEETS
L100	GENERAL NOTES
L110	POOL DECK EGRESS PLAN
L200	TREE MITIGATION PLAN
L201	TREE MITIGATION PLAN
L202	TREE MITIGATION PLAN
L300	HARDSCAPE PLAN
L301	HARDSCAPE PLAN
L302	HARDSCAPE PLAN
L500	PLANTING PLAN
L501	PLANTING PLAN
L502	PLANTING PLAN
L503	PLANTING PLAN
L510	IRRIGATION PLAN
L511	IRRIGATION PLAN
L512	IRRIGATION PLAN
L700	SITE DETAILS
L701	SITE DETAILS
L800	PLANTING DETAILS

VICINITY MAP



ISSUED FOR MAJOR SITE PLAN RESUBMITTAL #1

MAR 5, 2026

811 Know what's below. Call before you dig.

COVER SHEET

CONFLUENCE PROJECT # 25070

G000

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File Location: T:\Projects\25070\25070_wheeling family aquatics (village of wheeling, p153 working)\10 autocad\200 sheet set manager\SHEETS\G000 Cover Sheet (Darwin by: XX | Checked by: XX

GENERAL NOTES

A. THE CONTRACTOR SHALL NOTIFY THE 811 ONE CALL CENTER TO REQUEST THE LOCATION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES NOT COVERED BY 811 ONE CALL. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

B. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONDITIONS, IMPROVEMENTS, VEGETATION AND UTILITIES TO REMAIN. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.

C. THE CONTRACTOR SHALL CONSTRUCT ALL ITEMS WITHIN THIS CONTRACT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, REGULATIONS AND ENGINEERING STANDARDS. CONTRACTOR TO COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY OR STREETS WITH THE APPROPRIATE JURISDICTIONS.

D. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

DEMOLITION GENERAL NOTES

A. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANIES REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DAMAGE TO EXISTING UTILITIES PRIOR TO REPAIR. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER OF THE UTILITY.

B. FIELD VERIFY EXISTING GRADES AND LOCATIONS OF EXISTING UTILITIES, CONDUIT, LINES, POLES, TREES, PAVING, BUILDING AND OTHER SITE STRUCTURES PRIOR TO DEMOLITION OR CONSTRUCTION AND IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. THE CONTRACTOR SHALL REPORT TO THE OWNER ANY DAMAGE TO OWNER'S PROPERTY PRIOR TO REPAIR.

C. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

D. CONTACT THE LANDSCAPE ARCHITECT PRIOR TO REMOVING ANY PLANT MATERIAL NOT INDICATED TO BE PROTECTED OR REMOVED.

E. CONTRACTOR TO PROVIDE ADEQUATE BARRICADES AND TRAFFIC CONTROL. COMPLY WITH REQUIREMENTS OF LOCAL JURISDICTION.

F. CONTRACTOR SHALL SAW CUT ALL ASPHALT OR CONCRETE TO BE REMOVED TO THE NEAREST CONTROL JOINT WHERE PRACTICAL.

G. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

UTILITY GENERAL NOTES

A. DEWATERING (IF REQUIRED) IS CONSIDERED AN INCIDENTAL EXPENSE. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEWATERING.

B. COORDINATE INSPECTIONS FOR CONNECTIONS TO PUBLIC WATER, SANITARY, AND STORM SEWER WITH THE APPROPRIATE JURISDICTIONS.

C. INSTALL TEMPORARY INLET PROTECTION AROUND ALL PERMANENT STORM SEWER INLETS IN COMPLIANCE WITH LOCAL SWPPP REQUIREMENTS.

D. CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISH GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES AND LIGHT BASES.

E. FOR PATCHING USE PAVEMENT MIX PER VILLAGE OF WHEELING STANDARD SPECIFICATIONS.

ABBREVIATIONS

(ALL MIGHT NOT BE USED)

A	
ABRV	ABBREVIATION
ALN	ALIGN
ALW	ALLOWANCE
APPROX	APPROXIMATE
ARCH	ARCHITECT
AVE	AVERAGE
B	
B&B	BALLED AND BURLAPPED
BC	BOTTOM OF CURB
BLDG	BUILDING
BOC	BACK OF CURB
BOF	BOTTOM OF FOOTING
BW	BOTTOM OF WALL (@ FS)
BWS	BOTH WAYS
C	
CAL	CALIPER
CF	CUBIC FEET
CIP	CAST IN PLACE
CL	CENTER LINE
CLR	CLEAR
CO	CLEANOUT
CONT	CONTINUOUS
CY	CUBIC YARD
D	
DBH	DIA AT BREAST HT
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
DWG	DRAWING
E	
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ENG	ENGINEER
EQ	EQUAL
EST	ESTIMATE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
F	
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEV
FG	FINISHED GRADE
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISHED SURFACE
FT	FEET
FTG	FOOTING
G	
GA	GAUGE
GEN	GENERAL
H	
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDED
J	
JT	JOINT
K	
NONE	
L	
LF	LINEAR FEET
LP	LOW POINT
M	
MAX	MAXIMUM
MANU	MANUFACTURER
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
N	
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	
PC	POINT OF CURVE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PT	POINT
PVC	POLY VINYL CHLORIDE
Q	
QTY	QUANTITY
R	
R	RADIUS
REC	RECOMMENDATION
RE	REFERENCE
REINF	REINFORCE
R-EJ	REINFORCED EXPANSION JT
REQD	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
S	
S	SOUTH
SAN	SANITARY
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
ST	STORM SEWER
SY	SQUARE YARD
STA	STATION
STD	STANDARD
SYM	SYMMETRICAL
SQ	SQUARE
T	
T&B	TOP AND BOTTOM
TBD	TO BE DETERMINED
TC	TOP OF CURB
TD	TOP OF DRAIN
TH	THICK
TOF	TOP OF FOOTING
TOPO	TOPOGRAPHY
TW	TOP OF WALL
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VAR	VARIES
VOL	VOLUME
W	
W	WITH
W/O	WITHOUT
WT	WEIGHT
WWM	WELDED WIRE MESH
X	
NONE	
Y	
YD	YARD
Z	
NONE	

LINE SYMBOL LEGEND

- LIMIT OF WORK
- EASEMENT
- SETBACK
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- COMMUNICATIONS
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- SANITARY SEWER
- STORM SEWER
- UNDERDRAIN
- TELEPHONE
- WATER
- SILT FENCE
- FENCE, TYPE 1
- FENCE, TYPE 2
- FENCE, TYPE 3

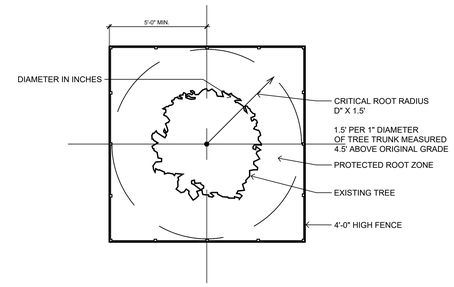
DRAWING SYMBOLS

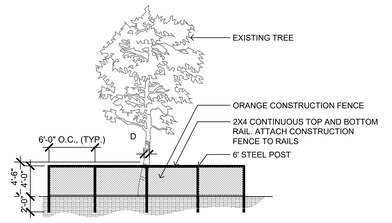
(NOT ALL ARE USED)

- SECTION
- ELEVATION
- TEXT MULTILEADER (MULTILEADER STD.)
- GRADING MULTILEADER (XX ###.#)
- DETAIL MULTILEADER (DETAIL NAME ## L-##)
- CONTOUR ELEVATION (###)
- CENTER POINTS
- SLOPE (#.#%)
- COORDINATE TAGS (N.#### E.####)
- ELEVATION (XXXX.XX / X'XXXX)
- PLANT TAG (QTY ## / ABBREVIATION XX)
- KEYNOTE (#)
- DIMENSION (#'-##")
- RADIUS DIMENSION (R##)
- ANGLE DIMENSION (##°)
- REVISION TRIANGLE (ISSUE NO.)
- XX / L-XX
- XX / L-XX
- A
- ℄
- # SHEET TITLE N.T.S

SCALE: 1"=10'

0' 5' 10' 20'





1 / L100 TREE PROTECTION FENCE TYP NTS

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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

GENERAL NOTES

L100

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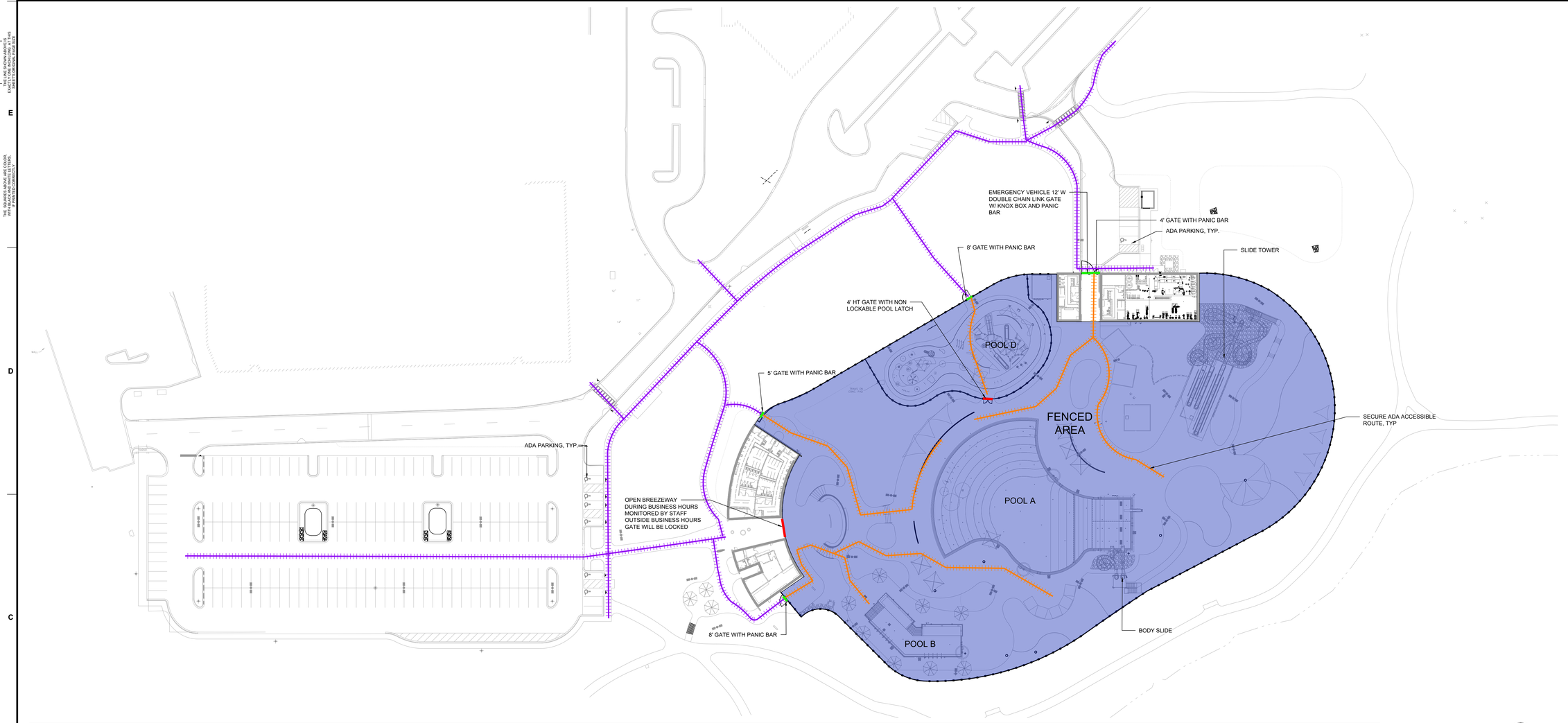
IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, IF THIS SHEET IS ORIGINAL SIZE

THIS SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PLOTTED

File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p\903 working\10 autocad\200 sheet set manager\SHEETS\G000 Cover Sheet / SAVE DATE: 3/5/2026 10:23 AM BY: mmiller / PLOT DATE: 3/5/2026 1:31 PM BY: Mark Miller



1 L110 POOL DECK EGRESS PLAN

0' 20' 40' 80'

POOL DECK LEGEND

- LOCK GATE
- PANIC GATE
- ROW PATH
- SECURE PATH

POOL DECK EGRESS CODE

A. THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.

B. KEY REQUIREMENTS FOR OUTDOOR POOL EGRESS

1. OCCUPANCY LOAD
   1.1. TOTAL BATHERS: 2,847.

2. NUMBER OF EXITS (GATES)
   2.1. BASED ON IBC TABLE 1006.3.3:
   2.2. FOR 2,847 BATHERS : MINIMUM 5 EXITS (GATES) REQUIRED.

3. EXIT WIDTH
   3.1. AREA A (2847 BATHERS): 2847 × 0.15 = 428 INCHES

4. TRAVEL DISTANCE TO EXITS
   4.1. MAXIMUM TRAVEL DISTANCE:
      4.1.1. 200 FEET IF UNSPRINKLERED.
      4.1.2. 250 FEET IF SPRINKLERED.

5. GATE FEATURES
   5.1. ALL GATES MUST:
      5.1.1. SWING OUTWARD IN THE DIRECTION OF EGRESS.
      5.1.2. BE EQUIPPED WITH PANIC HARDWARE FOR QUICK EXIT.
      5.1.3. BE ADA-COMPLIANT:
         5.1.3.1. MINIMUM WIDTH: 36 INCHES PER GATE.
         5.1.3.2. OPERABLE PARTS MUST NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING.

B. SUMMARY FOR WHEELING PARKS DISTRICT PROJECT:

1. AREA A (2847 BATHERS):
NUMBER OF GATES: 5 GATES; 1 144 IN. WIDE, 2 96 IN. WIDE, 1 60 IN. WIDE, 1 48 INCHES WIDE.

2. ALL CHAIN LINK GATES WILL BE 6' HT WITH PANIC, SWINGING OUT

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VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
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Date	2026-03-05

POOL DECK EGRESS PLAN

L110

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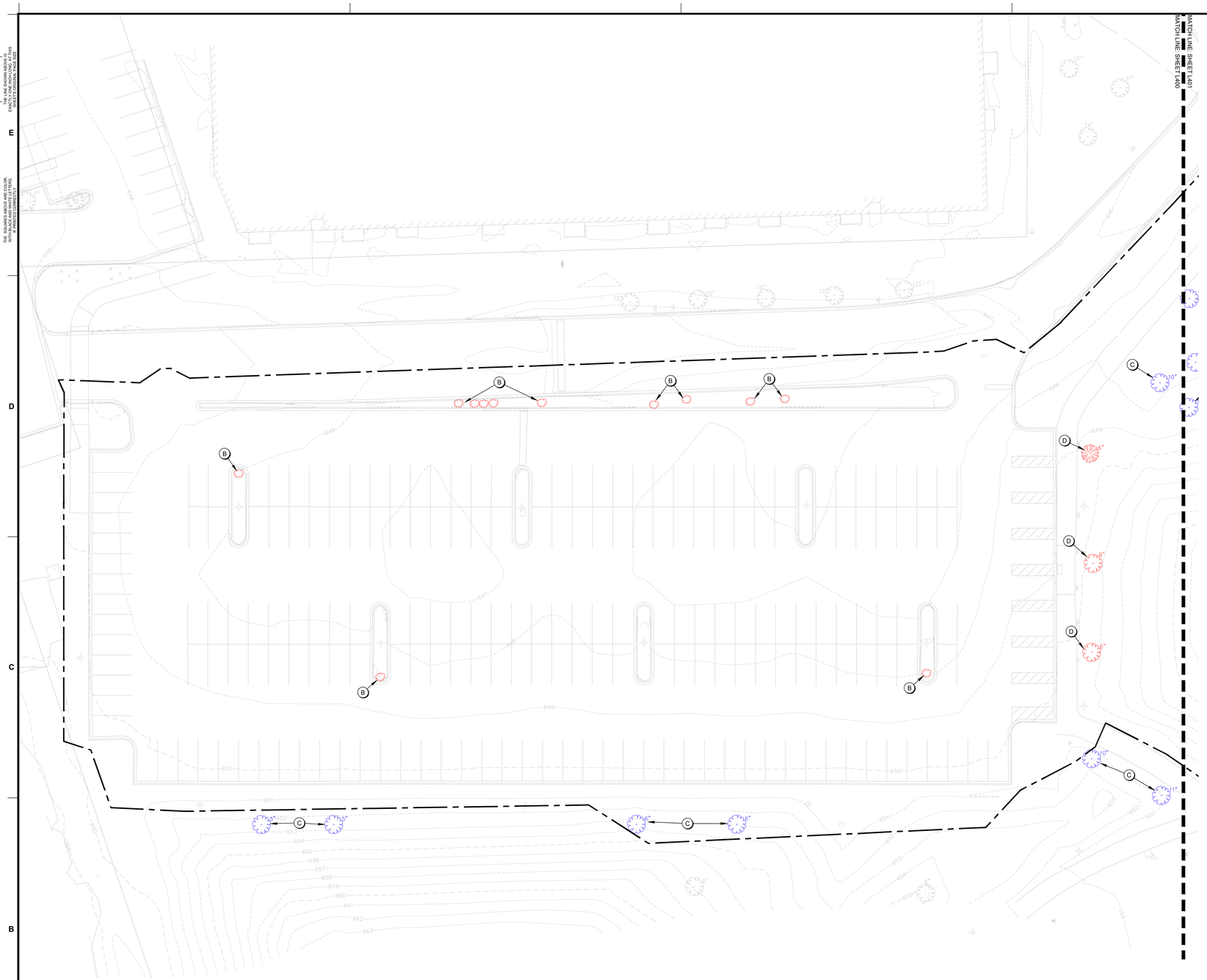

1 L200 TREE MITIGATION PLAN - AREA A

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L200 SHEET LOCATION KEY

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
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Project Number	25070
Issue	MAJOR SITE PLAN RESUBBMITTAL #1
Date	2026-03-05

TREE MITIGATION PLAN

L200

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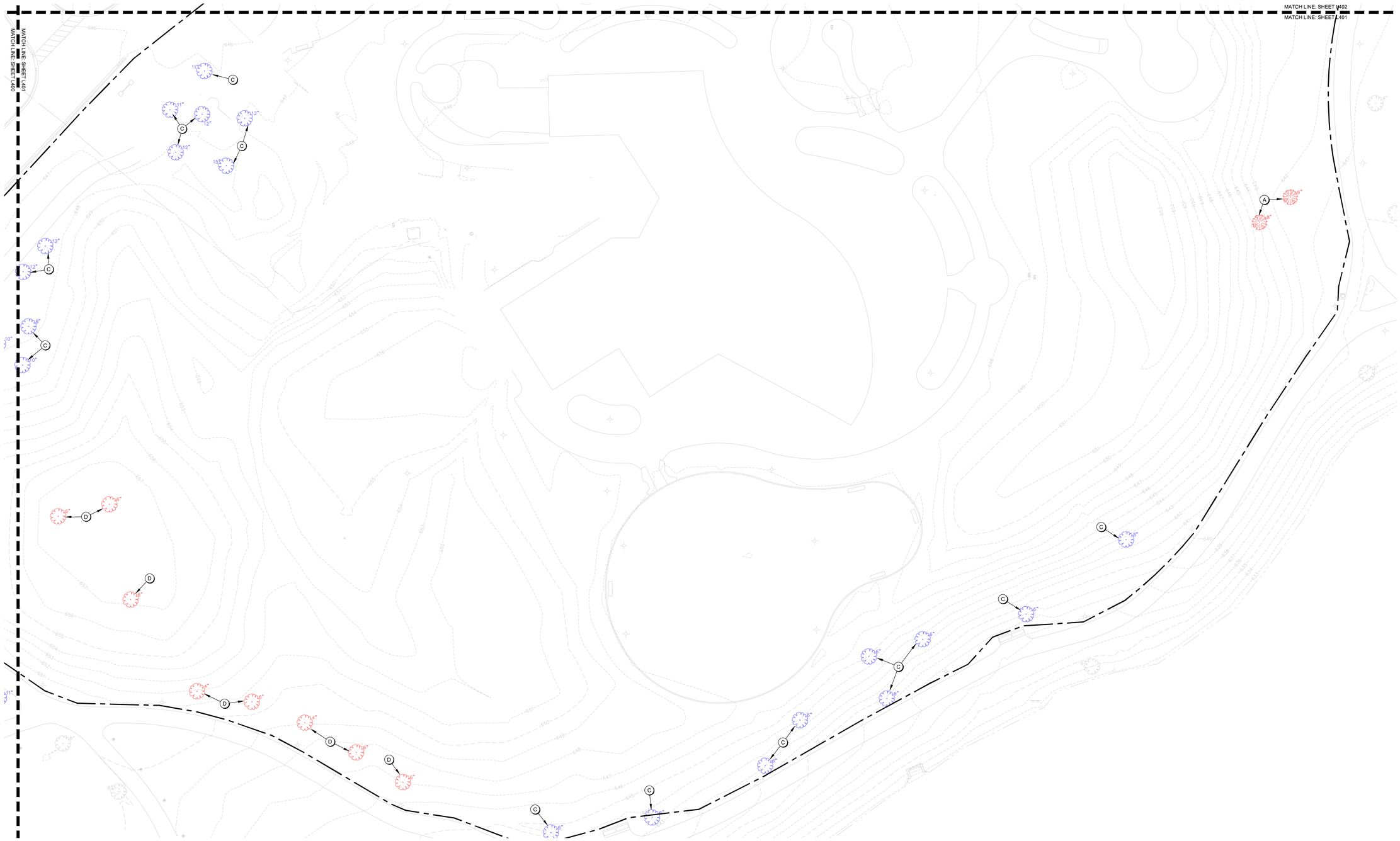

1 L201 TREE MITIGATION PLAN - AREA B

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L201 SHEET LOCATION KEY

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WHEELING PARK DISTRICT AQUATICS CENTER

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105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
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Date	2026-03-05

TREE MITIGATION PLAN

L201

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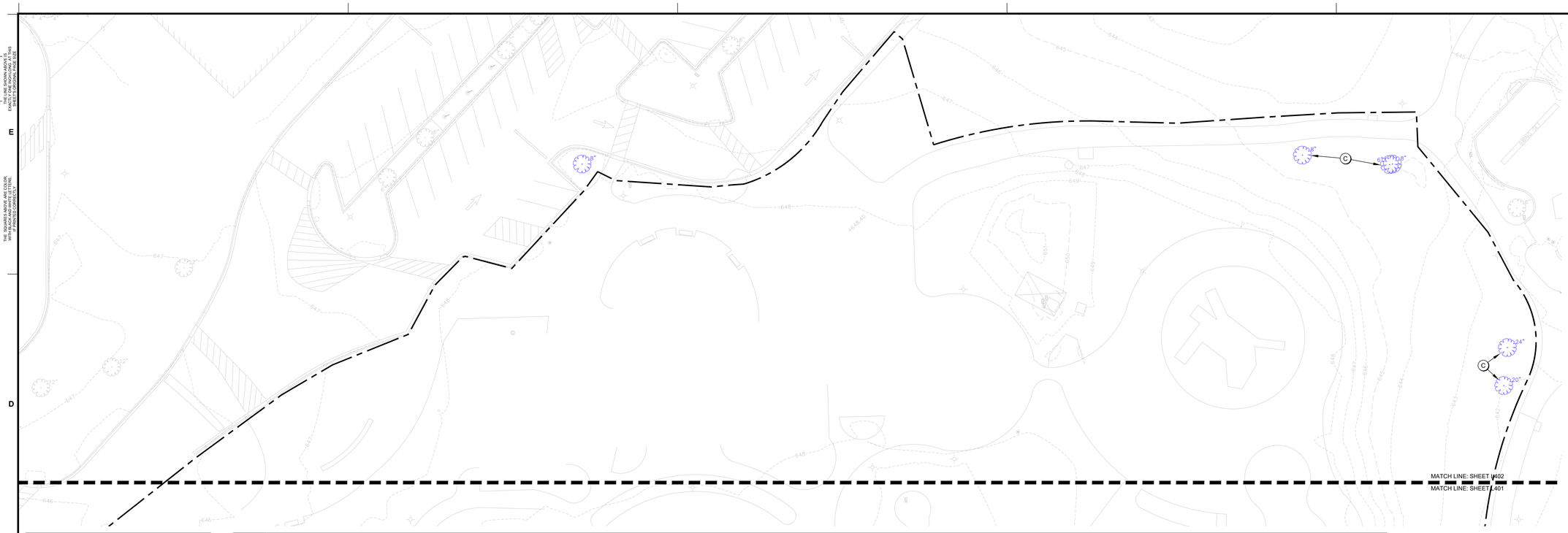

1 L202 TREE MITIGATION PLAN - AREA C

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L202 SHEET LOCATION KEY

CONFLUENCE

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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBBMITTAL #1
Date	2026-03-05

TREE MITIGATION PLAN

L202

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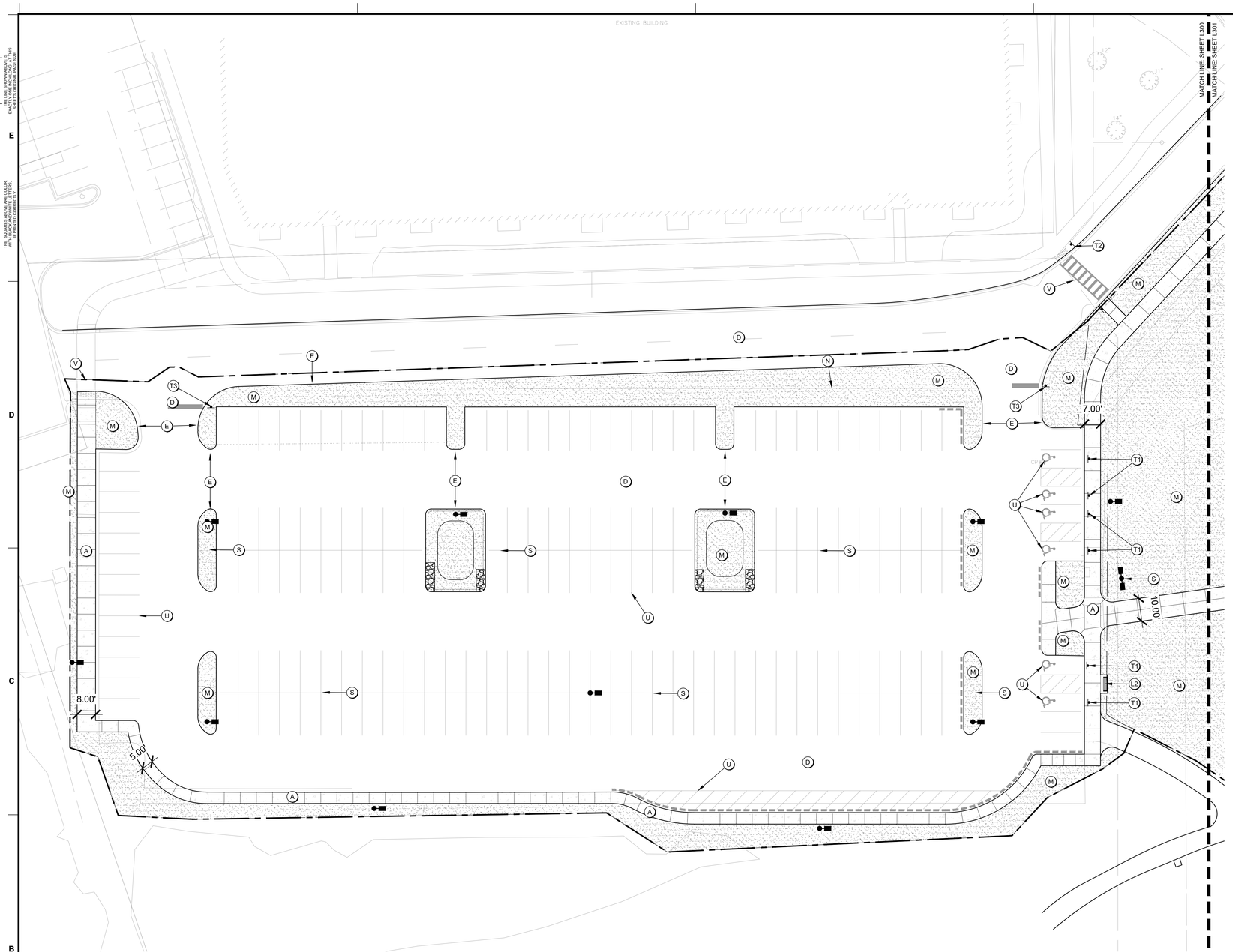


1 L300 HARDSCAPE PLAN - AREA A

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
Z) LANDSCAPE BED EDGE TYPE 2; RE: 14/L701
AA) YARD HYDRANT; RE: 15/L701

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

RAILING, FENCE, AND GATES; SCHEDULE A

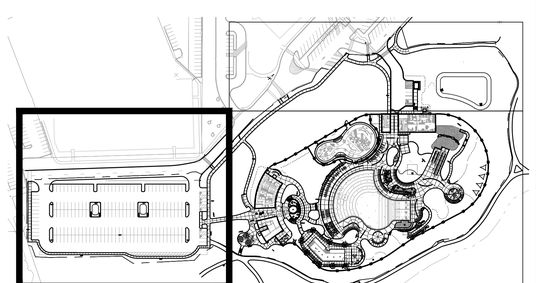
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ, SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L300 SHEET LOCATION KEY

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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L300

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THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AS INDICATED

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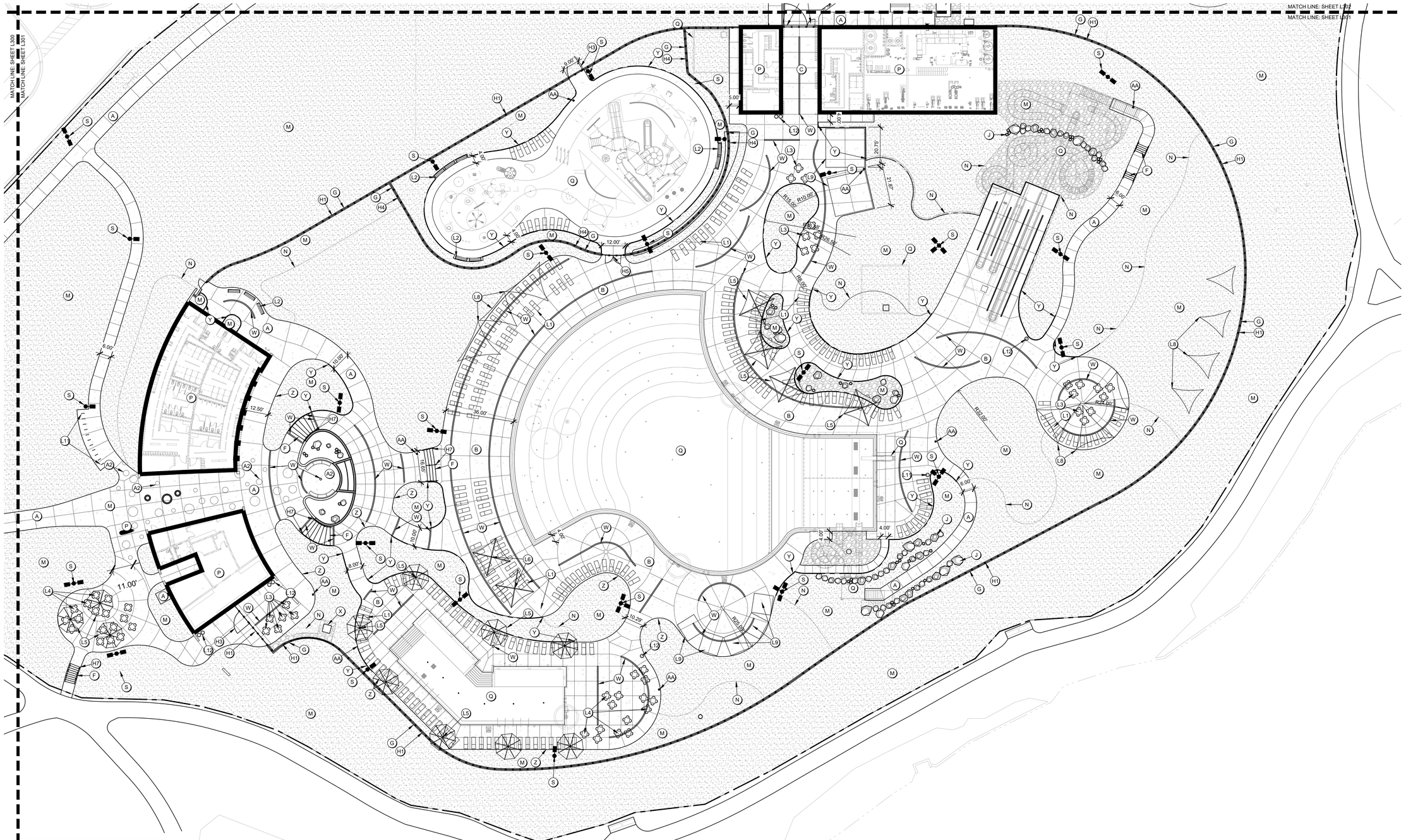

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
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K) SEAT WALL; RE: 11/L701
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M) LANDSCAPING; RE: PLANTING SHEETS
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O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
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F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

1 L301 HARDSCAPE PLAN - AREA B

0' 10' 20' 40'

RAILING, FENCE, AND GATES; SCHEDULE A

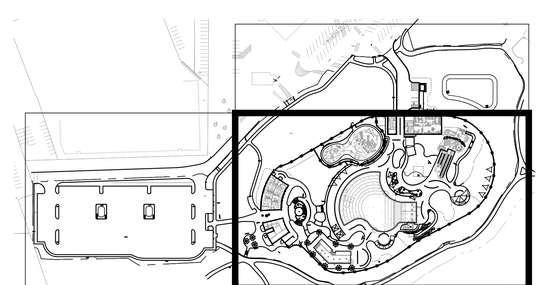
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ. SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L301 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L301

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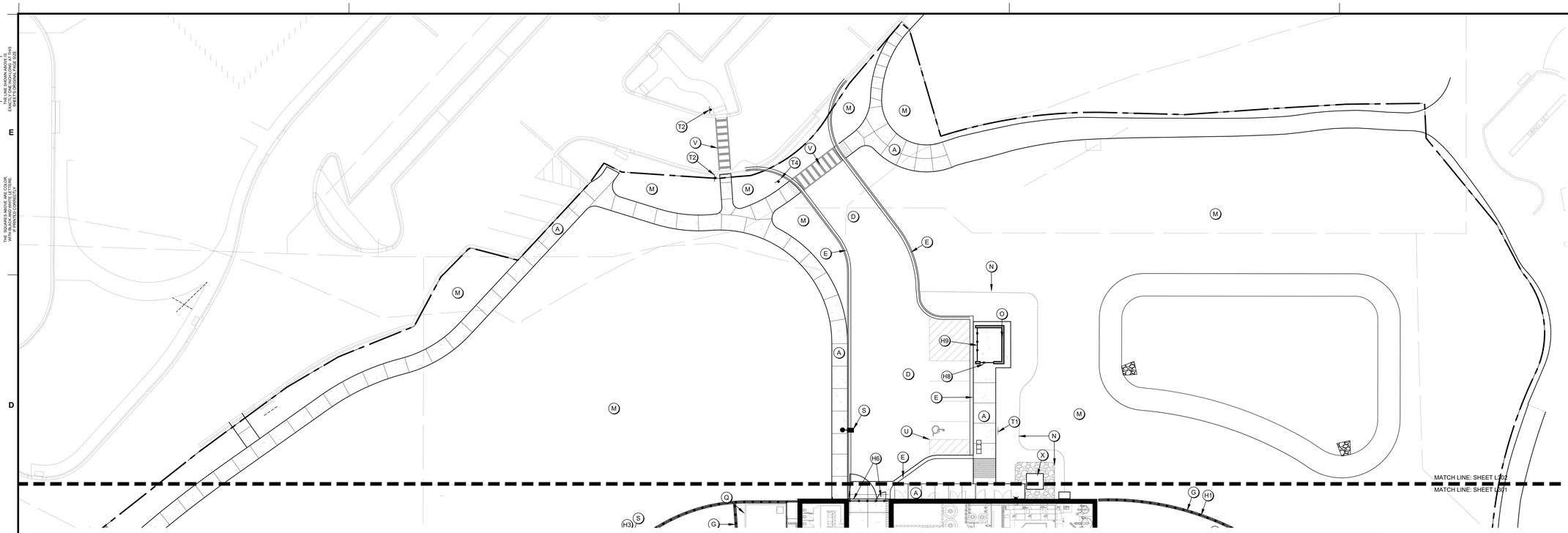
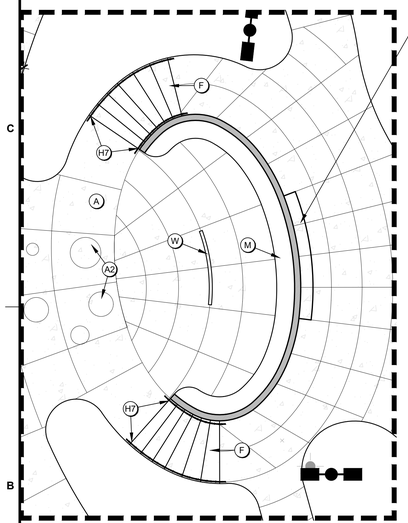


1 L302 HARDSCAPE PLAN - AREA C



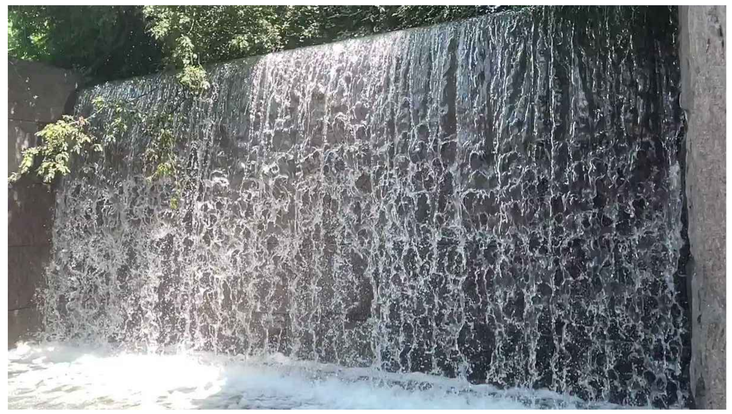
WATER FEATURE/FOUNTAIN. THE APPROXIMATELY 3 FOOT TALL WALL SHALL BE CONSTRUCTED OF REINFORCED CONCRETE OR CMU WITH A FINISHED FACE OF STONE VENEER, OR AS INDICATED IN THE DRAWINGS. A CONCEALED WEIR SYSTEM SHALL BE PROVIDED AT THE TOP OF WALL TO DISTRIBUTE WATER EVENLY ACROSS THE FULL WIDTH AS INDICATED IN THE DRAWINGS, CREATING A UNIFORM, UNINTERRUPTED CURTAIN OF WATER FLOWING DOWN THE VERTICAL SURFACE INTO A RECEIVING BASIN OR POOL BELOW. THE CONTRACTOR SHALL PROVIDE A COMPLETE RECIRCULATING SYSTEM, INCLUDING PUMPS, FILTRATION, PIPING, VALVES, AND CONTROLS, SIZED TO ACHIEVE CONSISTENT FLOW WITHOUT STREAKING OR DRY AREAS. THE WALL SURFACE SHALL BE TRUE, SMOOTH, AND FREE OF IRREGULARITIES THAT WOULD DISRUPT WATER FLOW. ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, DURABLE, AND MAINTAINABLE SYSTEM SHALL BE INCLUDED, COORDINATED WITH STRUCTURAL, ELECTRICAL AND POOL SYSTEMS, AND INSTALLED IN ACCORDANCE WITH THIS DESIGN INTENT.

2 L302 HARDSCAPE PLAN - OVERLOOK ENLARGEMENT

0' 5' 10' 20'



3 L302 WATER FEATURE CONCEPT RENDERING EXAMPLE



4 L302 WATER FEATURE CONCEPT REFERENCE EXAMPLE

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

RAILING, FENCE, AND GATES; SCHEDULE A

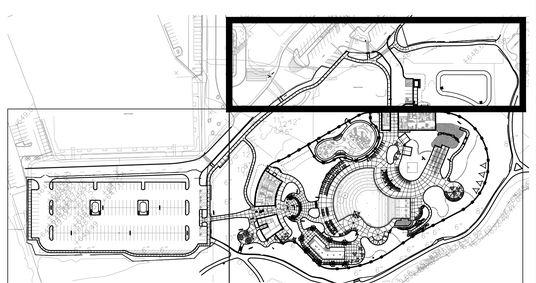
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ. SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L302 SHEET LOCATION KEY

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307 N Michigan Avenue #601
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ARCHITECT
LEGAT ARCHITECTS
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Chicago, IL 60601
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CIVIL ENGINEER
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625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

HARDSCAPE PLAN

L302

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SIZE

THE SQUARES ABOVE ARE SOLID COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

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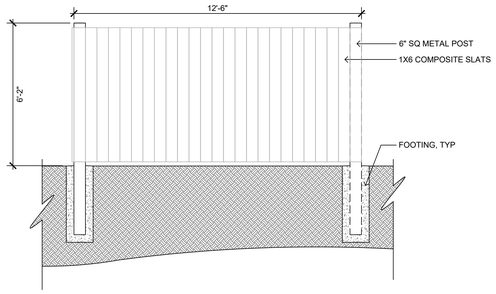
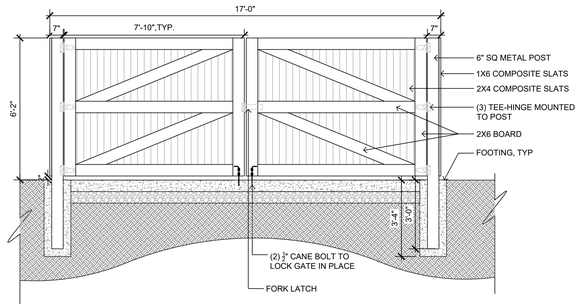
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS SHEET IS CORRECTLY SCALED

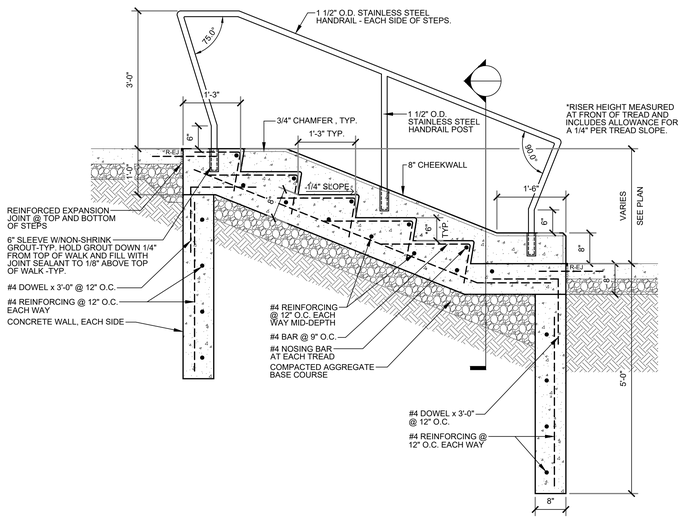
C M Y K
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY



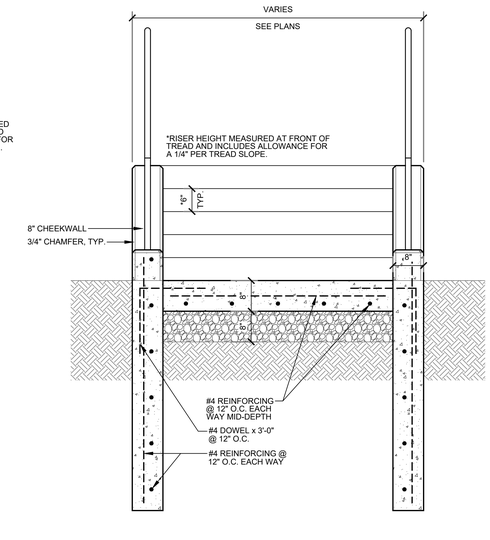
14 L700 TRASH ENCLOSURE SIDE SECTION — SCALE: 3/8" = 1'-0"

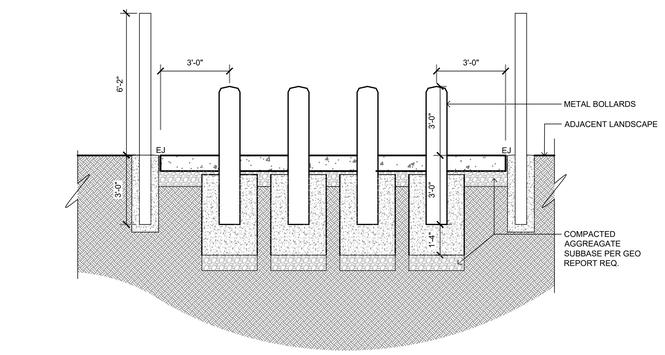


13 L700 TRASH ENCLOSURE GATES — SCALE: 3/8" = 1'-0"

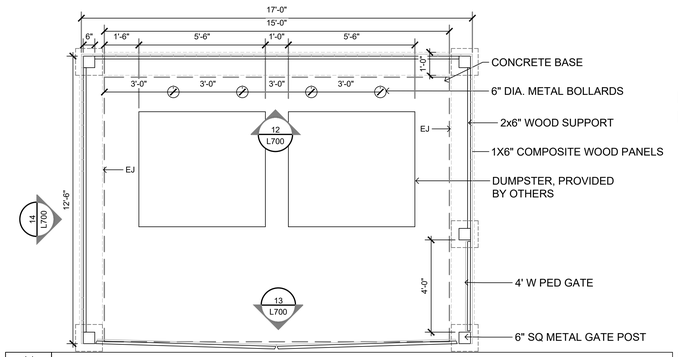


5 L700 CONCRETE STAIRS — SCALE: 3/4" = 1'-0"

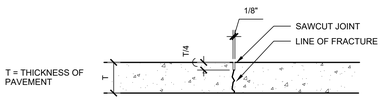




12 L700 TRASH ENCLOSURE — SCALE: 3/8" = 1'-0"

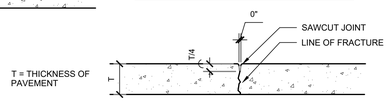


11 L700 TRASH ENCLOSURE LAYOUT — SCALE: 3/8" = 1'-0"



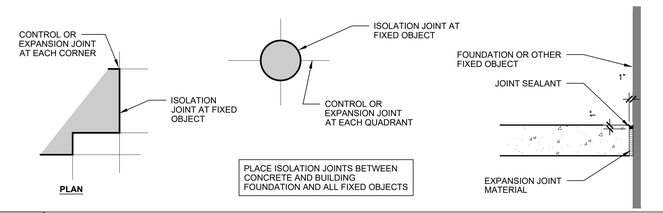
SAWCUT CONTROL JOINT

TOOLED JOINTS SHALL BE CONSTRUCTED AT A MINIMUM DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND INSURE A FREE MOVEMENT OF CONCRETE AT THE JOINT.



TOOLED CONTROL JOINT

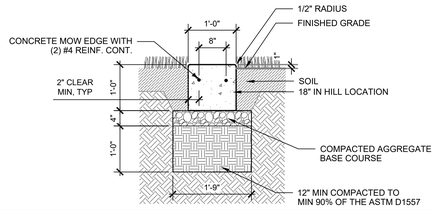
10 L700 CONTROL JOINT TYP — N.T.S



9 L700 ISO JOINT TYP — N.T.S

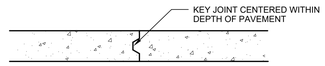
1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED TRANSVERSELY ALONG THE CURB EVERY 40'.

CONTROL JOINTS SHALL BE PLACED 10'-0" O.C. MAX.



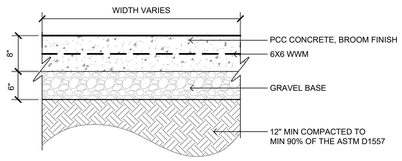
4 L700 CONCRETE MOW STRIP TYP — SCALE: 3/4" = 1'-0"

CONSTRUCTION JOINTS SHALL BE PLACED BETWEEN INDIVIDUAL POURS OF CONCRETE WHERE EXPANSION JOINTS DO NOT OCCUR.



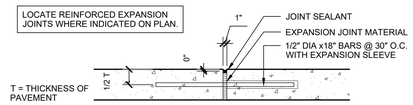
8 L700 CONSTRUCTION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



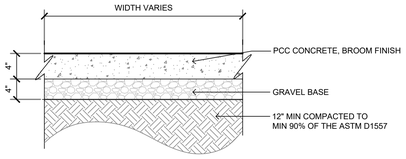
3 L700 PAVING TYPE 3 (REINF PPC) TYP — N.T.S

LOCATE REINFORCED EXPANSION JOINTS WHERE INDICATED ON PLAN.



7 L700 REINF. EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.
3. BROOM FINISH DYNAMIC COEFFICIENT OF FRICTION 0.6

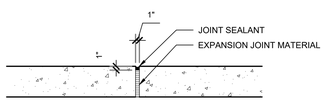


2 L700 PAVING TYPE 2 (POOL DECK) TYP — N.T.S

ALL EXPANSION JOINTS IN WALKS SHALL BE SEALED WITH A SELF LEVELING URETHANE JOINT SEALANT. ASTM C920 , MULTI-COMPONENT (M), GRADE P, CLASS 25, TRAFFIC (T) EXPOSURE. COLOR TO BE MANUFACTURERS STANDARD GRAY OR LIMESTONE.

CLEAN, PRIME, AND BACK JOINTS AS RECOMMENDED BY SEALANT MANUFACTURER. INSTALL IN ACCORDANCE WITH ASTM C1193.

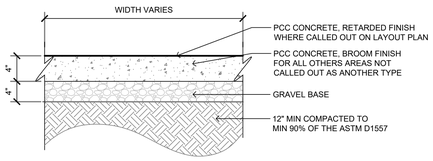
CLEAN OFF EXCESS SEALANT AND SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND MATERIALS APPROVED IN WRITING BY THE SEALANT MANUFACTURER.



SPACE EXPANSION JOINTS NOT TO EXCEED 35' IN CONCRETE WALKS AND WHERE INDICATED ON PLAN.

6 L700 EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



1 L700 PAVING TYPE 1 (SIDEWALK) TYP — N.T.S

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Vernon Hills, IL 60061
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WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L700

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File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p)\03 working\10 autocad\200 sheet set manager\SHEETS\Site Details / SAVE DATE: 3/5/2026 10:28 AM BY: rmiller / PLOT DATE: 3/5/2026 1:34 PM BY: Mark Miller

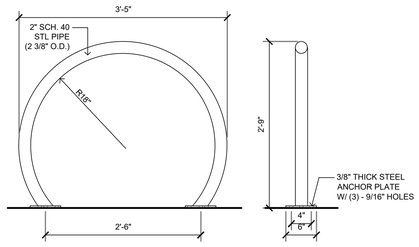
IF LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH LONG, ATTHIS DRAWING IS NOT AT THE CORRECT SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ARE NOT CORRECTLY PRINTED

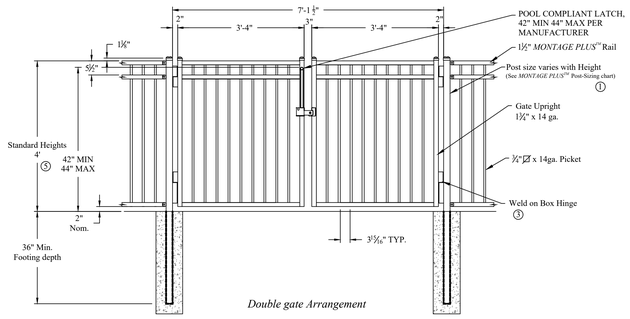


NOTES:
1. INSTALL PER MANUFACTURER SPECIFICATIONS
2. PRODUCT: NDS, SPEE-D CHANNEL DRAINS, 4" BOTTOM OUTLET AND DECORATIVE GRATES, COLOR TO BE DETERMINED
   GRAY CHANNEL, GRATE COLOR TO BE DETERMINED
3. MANUFACTURER:
   NDS
   NDSPRO.COM

12 L701 TRENCH DRAIN
NTS



11 L701 BIKE RACK
SCALE: 1" = 1'-0"

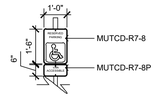


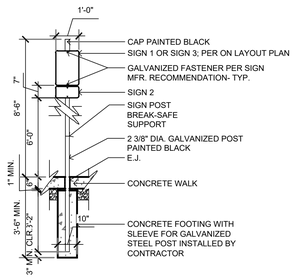
Double gate Arrangement

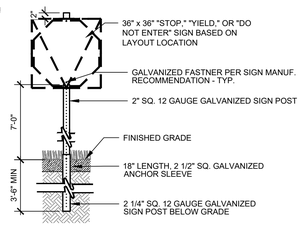
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

7 L701 GATE, DOUBLE PICKET - 7' OPENING
SCALE: 1/2" = 1'-0"

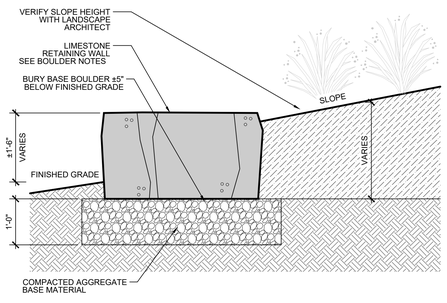
NOTES:
1. SIGNS TO CONFORM TO MUTCD STANDARDS
2. SUBMIT CUT SHEETS OF POLE, SIGNAGE, CAP FOR APPROVAL.
3. ADA SIGN 1 IS MUTCD-R7-8 AND GOES FOR ACCESSIBLE RESERVED PARKING.
4. ADA SIGN 2 IS MUTCD-R7-8P AND GOES FOR VAN ACCESSIBLE.
5. SIGN 2 TO FOLLOW SIGN 1 PER VAN ACCEPTABLE LOCATIONS PER PARKING ON LAYOUT PLAN LS100.
6. "DO NOT ENTER" SIGN IS MUTCD R5-1.



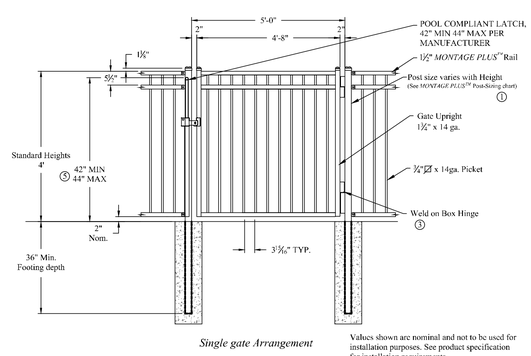




3 L701 ROAD SIGNS, TYP.
SCALE: 3/8" = 1'-0"



10 L701 BOULDER WALL
SCALE: 3/4" = 1'-0"

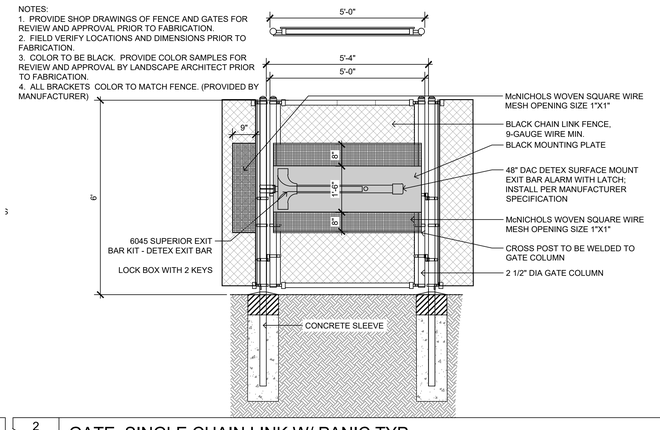


Single gate Arrangement

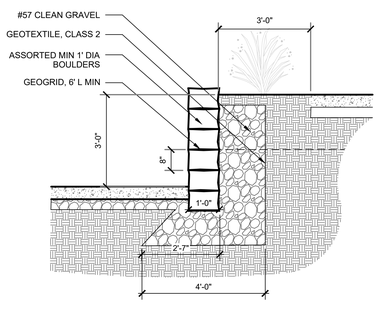
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

6 L701 GATE, SINGLE - 5' OPENING
SCALE: 1/2" = 1'-0"

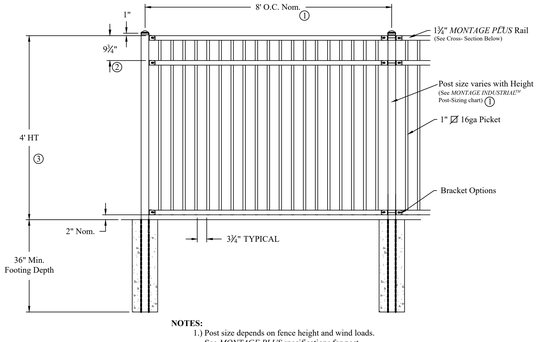
NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)



2 L701 GATE, SINGLE CHAIN LINK W/ PANIC TYP
SCALE: 1/2" = 1'-0"



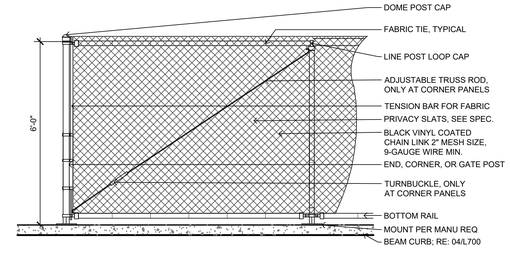
9 L701 RETAINING WALL
SCALE: 1/2" = 1'-0"



NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE PLUS* specifications for post sizing chart and dimensions.
2.) Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

5 L701 FENCE PICKET (INTERNAL) TYP
SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER).



1 L701 FENCE CHAIN LINK (PERIMETER) TYP
SCALE: 1/2" = 1'-0"

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WATER TECHNOLOGY
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Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
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Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L701

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File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p)\03 working\10 autocad\200 sheet set manager\SHEETS\Site Details\ | SAVE DATE: 3/5/2026 1:41 PM BY: mmiller | PLOT DATE: 3/5/2026 1:43 PM BY: Mark Miller

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PV26-0006, Request for a Variation to Reduce the Minimum Required Number of Parking Spaces from 356 Spaces to 192 Spaces Associated with the Redevelopment of the Wheeling Aquatics Center (105 Community Boulevard). **PUBLIC HEARING**

RECOMMENDED ACTION: **Recommend approval of Docket No. PV26-0006** granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections, to permit a reduction in the minimum required number of parking spaces from 356 spaces to 192 spaces for the Wheeling Park District Aquatic Center Facility, located at 105 Community Boulevard in accordance with the Project Description Letter prepared by Confluence, last revised 2/26/2026; Preliminary Civil Engineering Plans prepared by Confluence, last revised 3/27/2026; and Site Plan Drawings prepared by Confluence, last revised 3/27/2026; and subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use), Docket No. PV26-0007 (variation to permit an increase in the maximum uniformity ratio), and Docket No. PSPMAJ25-0006 (major site plan and building appearance approval).

EXECUTIVE SUMMARY

Docket No. PV26-0006: Confluence, Inc. (325 W. Huron Street, Suite 602, Chicago, IL 60654) on behalf of the Wheeling Park District (property owner) requests a variation to permit a reduction in the minimum required number of parking spaces from 356 spaces to 192 spaces associated with the redevelopment of the Wheeling Aquatics Center, for the property located at 105 Community Boulevard, as required in Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections.

GENERAL PROPERTY INFORMATION

Petitioner: Confluence, Inc. (325 W. Huron Street, Suite 602, Chicago, IL 60654) on behalf of the Wheeling Park District (property owner)

Location: 105 Community Boulevard

Property size: 103.8 acres (total acreage of Heritage Park)/ 7.34 acres (total development area)

Proposed Floor Area: 12,154 sq. ft. (primary building and mechanical building)

Neighboring Property Land Use(s):
- North: Wheeling Village Hall and Police Department
- West: Wheeling Park District Community Recreation Center (CRC)/Residential
- South: Industrial/Residential
- East: Residential/Institutional (across Wolf Road)

Existing Use of Property: Wheeling Outdoor Aquatics Center (Public Park)

Existing Zoning: MXT (Transit-Oriented Mixed Use), R-1 (Single Family Residential) and R-2 (Single-Family)

Comprehensive Plan Designation: Open Space

Zoning History:

- Ordinance No. 2698, approved May 20, 1991, granting Special Use and Site Plan Approval for an existing public park and development improvements (Docket # 1991-10).
- Ordinance No. 3067, approved August 21, 1995, granting an amendment to Sections A and B of Ordinance No. 2698, which granted Special Use and Site Plan Approval for a public park (Docket # 1995-20).
- Ordinance No. 3665, approved August 12, 2002, granting an amendment to Ordinance No's. 2698 and 3067, which granted Special Use and Site Plan Approval for a public park to expand the Aquatic Center Facility (Docket # 2002-22).

SUMMARY OF REQUEST

The petitioner is requesting a variation to reduce the minimum required number of parking spaces from 356 spaces to 192 spaces associated with the redevelopment of Wheeling Aquatics Center located at 105 Community Boulevard.

The petitioner is also seeking an amendment to the existing special use (Docket No. PSU26-0003), along with a variation to permit an increase in the maximum lighting uniformity ratio (PV26-0007) and major site plan and appearance approval (PSPMAJ25-0006).

VARIANCE

A variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

As detailed in Docket No. PSPMAJ25-0006, the petitioner is seeking to redevelop the existing outdoor aquatics center at Heritage Park to create a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency and integrates cohesively with the surrounding park amenities located at 105 Community Boulevard.

Pursuant to the Village Code, off-street parking for outdoor swimming pools is required at a ratio of 1 space per 8 bathers. Based on the proposed maximum capacity of 2,847 bathers, a total of 356 parking spaces would be required for the new aquatic center. The redevelopment project will re-orient the entrance to the west, allowing for the use of the existing "west" parking lot (located west of the existing aquatic center and south of The One Apartment complex) as the main parking lot to serve the facility. The "west" parking lot will contain 192 parking spaces, following associated modifications.

Additional parking is available at the existing Sport Complex parking lot (located east of the aquatic center) containing 250 spaces, which has served as overflow parking demand during peak periods. The Sports Complex parking lot will continue to serve the aquatic center in this same capacity. In addition, a significant portion of the facility's weekly users arrive via school bus or other group transportation, which reduces on-site parking demand.

Although the Heritage Park facilities will provide a combined 542 parking spaces, which excludes the Health and Fitness Center parking lot and Heritage Park south parking lot (accessed via Wolf Road), the principal parking lot serving the new aquatic center facility, will not provide the minimum parking spaces of the zoning code. Accordingly, the petitioner is requesting a variation to reduce the required number of parking spaces from 356 spaces to 192 spaces.

Given the reuse of the existing "west" parking lot, the availability of nearby supplemental parking, the provision of bicycle accommodations, and the anticipated travel patterns of patrons, staff finds that the proposed parking supply is reasonable for the use and supports the requested variation.

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request. (Any staff comments follow the petitioner's response)

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.**

   Petitioner: The Heritage Park property owned by the Wheeling Park District has multiple programmatic elements to the park as a whole with different peak uses and times at which parking lots are used, created for shared parking facilities and overflow parking from one lot into another. The unique programming of the parking and limited space and resources available by the park district make providing the code-required minimum parking spaces at the current bather load, 356 spaces (2847 bather capacity * 1space/8 bathers), difficult to achieve. While the main parking lot taking into account walkable parking spaces

   Staff: The subject property is constrained by the presence of regulatory floodplain and wetlands, which significantly limit the availability of developable area on the site. These environmental constraints restrict the ability to accommodate required stormwater detention facilities, thereby limiting the feasible expansion of the parking lot. As a result, strict application of the parking and site design standards would impose a practical difficulty unique to the property and not generally applicable to other sites.

   The petitioner is reconstructing the parking lot within its existing footprint, which limits the ability to expand parking to meet current Code requirements without introducing additional impervious surface or impacting other park amenities. This constraint, combined with the shared parking nature of the site and the need to maintain safe and efficient circulation, contributes to the practical difficulty in providing the full number of required parking spaces.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other properties or uses.**

   Petitioner: The aquatics center use is a unique in its own right in that there are no other uses like this in the Village. For this aquatics center in particular, a majority of the bather load comes via bus. The west parking lot has been designed with this in mind, including a bus drop-off lane that includes room for at least three buses to pull over and drop-off children at once. In addition, a large number of bathers walk over from the Community Recreation Center (CRC) building to the north and enter through the smaller mechanical building entrance to the north. Finally, should the 192-space primary parking lot (west parking lot) fill up on peak-capacity days, there are alternate overflow parking lots within a short walk alluded to in response 1 above; such alternate parking lots include the 104 space CRC lot directly north of the new aquatics center, as well as the 250-parking space lot due north of the athletic fields. An agreement could also be explored between the Wheeling Park District and the Wheeling Town Center to allow for overflow into the Metra commuter parking lot located northwest of the west parking lot on select peak days/hours.

   Staff: The hardship is attributable to the specific environmental constraints of the subject property, namely the presence of regulatory floodplain and wetlands, which substantially reduce the amount of usable land available for development. These features limit the ability to locate stormwater detention facilities on the site and directly impact the feasibility of expanding the parking area. Such constraints are inherent to this property and are not conditions that generally apply to other properties or uses, thereby constituting a unique circumstance.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**

   Petitioner: The hardship or difficulty in providing the code-minimum required parking spaces is not a result of actions taken by the applicant. Existing programmatic constraints and topography challenges make it very challenging to provide an additional 164 spaces on top of the current 192 spaces provided in the west parking lot. The district also did not believe that based on historical data and parking use that there would be need for more parking spaces that are being provided with the current plans due to explanations in items 1 and 2 above. Alternatives with more parking were explored at the beginning of this project and were ultimately eliminated based on the notion that the number of parking spaces being proposed were excessive. Given the number of available parking lots on the property within walking distance and the varying degree of peak usage based on the programmatic element, it was determined that there was no need to provide parking in excess of what is shown today in the west parking lot and across the park campus as a whole.

Staff: The difficulty in meeting the minimum parking requirement is not the result of actions taken by the current property owner. The existing site layout, including the location of recreational facilities, shared parking areas, and overall park design, reflects adopted comprehensive plans for Heritage Park. In addition, physical constraints of the site, including limited available area for expansion without impacting existing amenities, open space, regulatory floodplain or wetlands contribute to the hardship of expanding parking.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**

   Petitioner: The negative impacts would include the loss of a family aquatics center for possibly the 2027 swim season in addition to the currently planned down period for the 2026 summer season while the new facility is under construction. If we were held to the code-required 356 spaces, we would need to completely go back to the drawing board designing and permitting a new site plan that introduces an additional parking lot capable of parking at least 164 more parking spaces. Resubmissions to the MWRD and Village could push an already condensed construction and permitting schedule into late 2027 or 2028 before construction could be completed. In addition, the added parking would take the place of greenspace set aside for future programming opportunities and have the potential of being an added cost to the community that is likely to be underutilized and ultimately a poor use of community funds.

   Staff: The aquatic center facility within the Heritage Park campus has been planned and developed as a large-scale recreational amenity that represents an efficient and desirable use of park land, which would not yield desirable results if regulatory floodplain or wetlands were impacted, or open space were developed for additional parking facilities. The proposed plan allows the property to continue functioning as a community recreational facility while balancing parking demand with the preservation of open space, natural resources and programming areas.

5. **State how the granting of the variation will not alter the essential character of the locality.**

   Petitioner: Granting of the variation will not alter the essential character of the locality. It should have the opposite effect by reducing unnecessary impervious cover and improving the park usability and aesthetics as a whole.

   Staff: The proposed variation would not alter the essential character of the locality. The property will continue to function as a public recreational facility consistent with the surrounding park and community uses. The reduction in required parking spaces limits additional impervious surface, prevents impacts to the regulatory floodplain and wetlands, and supports the overall character of the area as an open, recreational environment.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.**

   Petitioner: The variation will not impair supply of light or air to the adjacent properties, increase congestion in public streets, increase danger of fire, endanger public safety, or diminish or impair property values of the neighborhood. This variation is for a reduction in number of parking spaces and will not cause any endangerment to the public or negative impact the adjacent properties or neighborhoods in any way.

   Staff: Due to the presence of regulatory floodplain and wetlands, a substantial portion of the property is constrained and cannot be developed for parking or other functional site improvements. These limitations restrict the ability to provide adequate parking and associated stormwater detention facilities in compliance with zoning requirements. As a result, strict application of the regulations would significantly limit the site's usable area and hinder its ability to support a viable level of activity, thereby preventing the property from yielding a reasonable return if limited to development strictly in accordance with the underlying zoning standards.

STAFF REVIEW

Fire Department Review: No comments related to the variance request.

Engineering Division Review: No comments related to the variance request.

Staff Recommended Action: Staff recommends approval of the variance request subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use), Docket No. PV26-0007 (variation to permit an increase in the maximum uniformity ratio), and Docket No. PSPMAJ25-0006 (major site plan and building appearance approval).

****
If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of a variation, the appropriate motion would be to:

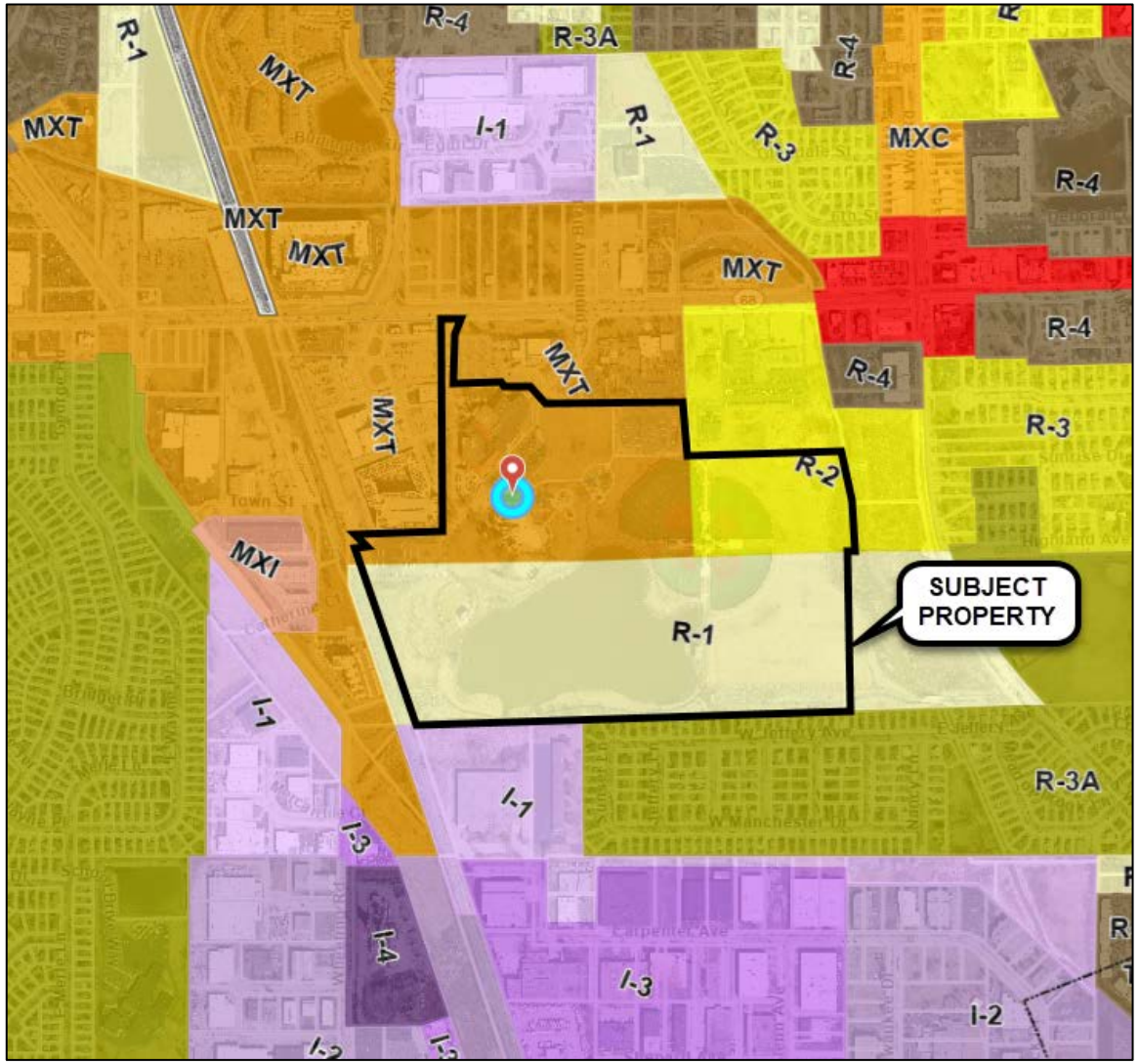
Recommend approval of Docket No. PV26-0006 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections, to permit a reduction in the minimum required number of parking spaces from 356 spaces to 192 spaces for the Wheeling Park District Aquatic Center Facility, located at 105 Community Boulevard in accordance with the Project Description Letter prepared by Confluence, last revised 2/26/2026; Preliminary Civil Engineering Plans prepared by Confluence, last revised 3/27/2026; and Site Plan Drawings prepared by Confluence, last revised 3/27/2026; and subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use), Docket No. PV26-0007 (variation to permit an increase in the maximum uniformity ratio), and Docket No. PSPMAJ25-0006 (major site plan and building appearance approval).

ATTACHMENTS:
Attachments to Staff Report (Staff)
Project Description Letter prepared by Confluence, last revised 2/26/2026
Preliminary Civil Engineering Plans prepared by Confluence, last revised 3/27/2026
Site Plan Drawings prepared by Confluence, last revised 3/27/2026



LOCATION MAP



ZONING MAP



Photo of the Existing Parking Lot Located Southwest of the Aquatics Center.



Photo of the crosswalk between The One Apartments and the west side of the parking lot, facing south.

~~Jan 30, 2026~~ Feb 26, 2026

RE: Wheeling Aquatic Center, 25070
Narrative Description

Project Address: 105 Community Boulevard, Wheeling, Illinois

Prepared By: Confluence, Inc.
ATTN: Terry Berkbuegler, PLA
Principal + Landscape Architect
325 W Huron Street, Suite 602
Chicago, Illinois 60654

Owner and Developer Information
Owner and or Developer: Wheeling Park District
ATTN: Jan Buchs
Executive Director
100 Community Blvd
Wheeling, IL 60090

Summary of Proposed Development and Intent
The new Wheeling Aquatic Center project consists of the comprehensive redevelopment of the existing outdoor aquatic facilities at Heritage Park, located at 105 Community Boulevard in Wheeling, Illinois. The proposed development is intended to create a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency, and integrates cohesively with surrounding park amenities and landscape features.

The overall design prioritizes clear site organization, intuitive circulation, and safe operations. A centrally located bathhouse and concessions building serves as the primary public entry point into the aquatic complex, establishing a clear arrival sequence from existing parking areas and park circulation routes. Controlled access points and logical internal circulation support efficient staffing, clear wayfinding, and patron safety.

The anticipated general public operating hours for the Wheeling Aquatic Center are 10:00 a.m. to 7:00 p.m., 7 days per week during the summer season. Limited morning programming may occur prior to public opening, including swim lessons and small group activities. Occasional special events may also be scheduled in the evening after public closing hours. These extended use periods will be limited in frequency and managed by Park District staff to ensure compatibility with surrounding park uses.

Description of Proposed Buildings
The design of the main bathhouse and mechanical buildings for the Wheeling Aquatics Center is based on providing durable, functional structures that meet the diverse operational needs of the facility while creating an engaging and enjoyable aesthetic experience for users.

The main bathhouse building is conceived as two interconnected structures separated by a central entry space, defined by an illuminated perforated metal entry pylon and an elevated cantilevered roof. The north portion of the building contains unconditioned changing areas, toilet rooms, and showers. These spaces are designed to comply with all applicable Illinois Plumbing Code and Illinois Department of Public Health requirements for aquatic facilities. Additional access control points allow limited toilet room use during shoulder seasons when the pools are closed. Individual unisex and family changing/toilet rooms are also provided in this portion of the building.

The south portion of the bathhouse contains conditioned spaces, including concessions, an IT room, guard support areas, first aid, and mechanical functions. The concession area is designed to serve both aquatics center patrons and general park users, while the toilet rooms provide year-round convenience for park visitors. The guard support area is strategically located to maintain clear views of adjacent aquatic areas for security and operational control. Ample daylighting is provided throughout the building via clerestory glazing located beneath the continuous roof overhang that encircles the structure.

- The total enclosed area of the main bathhouse building is 6,754 square feet.

The architectural character of the building is driven by the goal of expressing its aquatic function through form, color, and texture while maintaining a cost-effective and durable building envelope. Precast concrete was selected as the primary exterior material due to its durability, economy, and aesthetic versatility. A recessed wave formliner creates a crescendo wave pattern across the primary west façade, drawing attention toward the main entry. Circular “bubble” elements composed of blue-colored glass punctuate the elevation, allowing daylight into interior spaces and animating the façade at night. As an alternate, these elements may be constructed as circular recessed panels with embedded crushed blue glass. Subtle variations in color and texture distinguish the smooth formliner areas from the surrounding acid-etched panels. The east and west curved wall elements are connected by flat, acid-etched panels, with the east curved walls utilizing the wave formliner to frame glazed openings and exterior kit lockers.

The mechanical building located to the north incorporates many of the same design attributes as the main bathhouse. A central breezeway divides the structure and serves as a controlled access point for day campers, maintenance personnel, and emergency vehicles. Smaller secondary toilet rooms, lockers, showers, and a concessions area are included to help distribute use and reduce congestion at the main bathhouse. The majority of the eastern portion of the building houses mechanical systems serving all pools. Architecturally, the building is enclosed with precast concrete panels that mirror the bathhouse design, including the wave formliner and blue “bubble” elements.

- The total enclosed area of the mechanical building is 5,400 square feet.

Site Features and Uses

The aquatic program includes a diverse range of water features designed to serve a wide range of ages, abilities, and recreational preferences. These include a recreation pool with varied depths for swimming and general use, a resort style leisure pool with shallow lounging areas, and a zero depth entry play structure that supports inclusive access for younger users and individuals with mobility limitations. A separate splash pad provides interactive water play without the need for swimming. Active recreation elements include a slide complex with multiple body slides, drop slides, and a vertical drop slide, strategically located to maintain separation from leisure areas while providing

visual interest and excitement. A diving board area is incorporated into the recreation pool to support traditional aquatic programming.

Supporting site amenities include shaded seating areas with umbrellas and shade structures, cabanas, party shelters, landscaped lawn terraces, outdoor storage, screened service areas, and an overlook terrace with an integrated water feature. Pedestrian circulation, grading, stormwater management, and landscape improvements are coordinated throughout the site to enhance accessibility, manage drainage, and reinforce connections to the broader Heritage Park system.

Site and Area Calculations

- Total contiguous ownership interest: 103.8 acres
- Total Development Area: 7.34 acres
- Total Building(s) Floor Area: 12,154 square feet
- Total Number of Parking Spaces
    - West parking lot: 193 pool spaces proposed vs. 188 pool spaces required per Ordinance No. 2017-5118
    - Overall Park District property: 673 required, 713 provided
- Total Number of Bike Spaces
    - 24 spaces (12 racks, 2 spaces per rack)
- Total Impervious Surface Area: 2.43 (proposed); 2.35 (Existing)
- Total Non-Impervious Green Space: 4.31 (proposed); 4.53 (existing) square feet
- Open Pool water: 0.60 acres (proposed); 0.46 acres (existing)
- Total maintenance area*: 1.46 acres
    - *note: maintenance area is for west parking lot asphalt repavement

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS

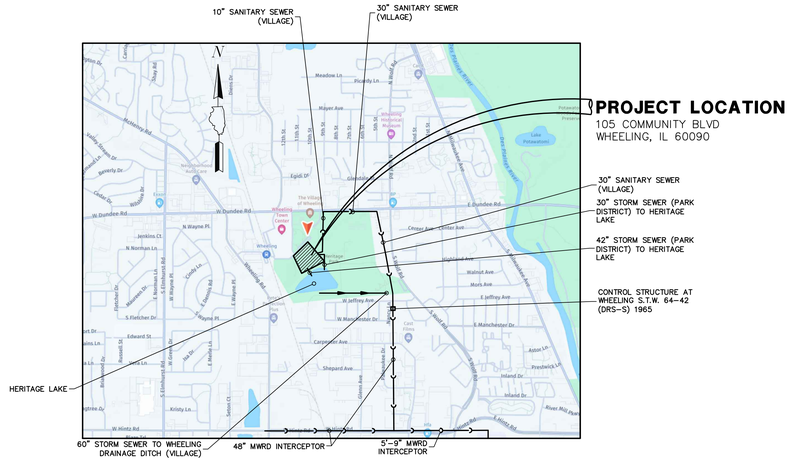
105 COMMUNITY BLVD
WHEELING, IL 60090

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REPRODUCIBILITY

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX	⊕	◑
BUSH/SHRUB	◌	●
CATCH BASIN	○ CO	C.O.
CLEANOUT	○	○
COMBINE SEWER LINE	——C——	——C——
CONTOUR	---708---	708
CULVERT	▭	▭
DITCH/SWALE	←←←←←	←←←←←
ELECTRIC LINE	E	E
ELECTRIC MANHOLE	Ⓔ	Ⓔ
FENCE	—X—X—X—	—X—X—X—
FIRE HYDRANT	♉	♉
FLARED END SECTION	▭	▬
GAS LINE	G	G
GAS MANHOLE	Ⓖ	Ⓖ
GAS VALVE	⧋	⧋
INLET	□	■
LIGHT POLE	☼	☼
OVERHEAD WIRES	A	A
POWER POLE	○	●
R.O.W LINE	———	———
R.O.W MARKER	⧋	⧋
SANITARY FORCEMAIN LINE	—CC—CC—	—CC—CC—
SANITARY SEWER LINE	—C—	—C—
SANITARY SEWER MANHOLE	◎	◉
SIGN	⚲	⚲
SPOT ELEVATION	×850.00	×850.0
STORM SEWER LINE	——C——	——C——
STORM SEWER MANHOLE	◎	◉
TELEPHONE LINE	T	T
TELEPHONE MANHOLE	Ⓣ	Ⓣ
TELEPHONE BOX/PEDESTAL	▣	▣
TREE-CONIFEROUS (SIZE/TAG#)	345	345
TREE-DECIDUOUS (SIZE/TAG#)	12"	12"
VALVE BOX	⊗	⊗
VALVE VAULT	⊠	⊠
WATER VALVE	⊗	⊗
WATERMAIN LINE	W	W



LOCATION MAP
(Not to Scale)

J.U.L.I.E
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
CALL 811

811 Know what's **below.** **Call** before you dig.

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.

P (708) 588-4055
E WMOJobStart@mwrd.org

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

BENCHMARK:
ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING TRIMBLE VRS® NOW™ (NO PUBLISHED MONUMENT VERIFIED)
DATUM: NAVD88

SITE BENCHMARK:
CUT "X" IN SIDEWALK APPROX 190' EAST OF THE FARTHEST SOUTH BUILDING CORNER OF THE REC. CENTER AND 20' NORTHWEST OF LIGHT POLE AT THE SOUTH END OF THE EAST ISLAND BETWEEN THE REC. CENTER AND POOL BUILDING. ALSO KNOWN AS CP#5.
ELEVATION: 647.07
DATUM: NAVD88

CONTRACTOR IS RESPONSIBLE TO VERIFY CONTROL AND BENCHMARKS PRIOR TO PROCEEDING WITH CONSTRUCTION.
REPORT ALL DISCREPANCIES TO GHA.

CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	1992982.59	1095891.70	645.05	CP1-XSW
2	1993313.48	1095440.82	647.40	CP2-XSW
3	1993324.42	1095758.74	644.69	CP3-MAG-PKG
4	1992976.18	1095447.34	645.55	CP4-MAG-PKG
5	1992790.14	1095380.26	647.04	CP5-XSW
8	1993332.82	1095037.20	644.65	CP8-MAG-PKG
9	1992397.06	1094993.96	648.16	CP9-MAG-PKG

DRAINAGE STATEMENT

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF THE SURFACE WATERS WILL NOT BE CHANGED BY CONSTRUCTION OF THIS SUBDIVISION (DEVELOPMENT), OR ON THIS SITE, OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE PROPERTY OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF CONSTRUCTION OF THE SUBDIVISION (DEVELOPMENT), OR THIS SITE.

SHEET INDEX

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C02 EXISTING CONDITIONS / DEMOLITION PLAN - OVERALL
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C26 STORMWATER POLLUTION PREVENTION PLAN NOTES
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C29 MWRD GENERAL NOTES
C30 VILLAGE OF WHEELING DETAILS
C31 VILLAGE OF WHEELING DETAILS
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C33 VILLAGE OF WHEELING DETAILS
C34 DETAILS
C35 EXISTING DRAINAGE EXHIBIT
C36 PROPOSED DRAINAGE EXHIBIT

TOPOGRAPHIC SURVEY BY:
GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PROFESSIONAL DESIGN FIRM LICENSE:
GEWALT HAMILTON ASSOCIATES, INC.
DESIGN FIRM - LAND SURVEYOR/PROF ENG
LICENSE NUMBER: 184.000922-0010

DONALD E. MATTHEWS 062-048084 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

PLANS PREPARED FOR:
WHEELING PARK DISTRICT
100 COMMUNITY BLVD
WHEELING, ILLINOIS 60090
TELEPHONE: 847-465-3333

COORDINATING/PERMITTING AGENCIES:

VILLAGE WHEELING	1-847-459-2600
METROPOLITAN WATER RECLAMATION DISTRICT LOCAL SEWER SECTION	1-312-751-5600
MWRD FIELD OFFICE	1-708-588-4055
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)	1-217-782-0610
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL SANITARY SEWER PERMIT	1-217-782-2027
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES	1-217-782-3397

SIGNED: _____ P.E.
Donald E. Matthews
DATE: 02-26-2026
ILLINOIS LICENSE NO.: 062-048084
EXPIRATION DATE: NOVEMBER 30, 2027

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Zion, IL 60099
847.478.9700

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

TITLE SHEET

C01

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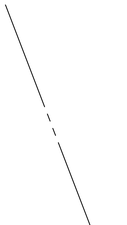
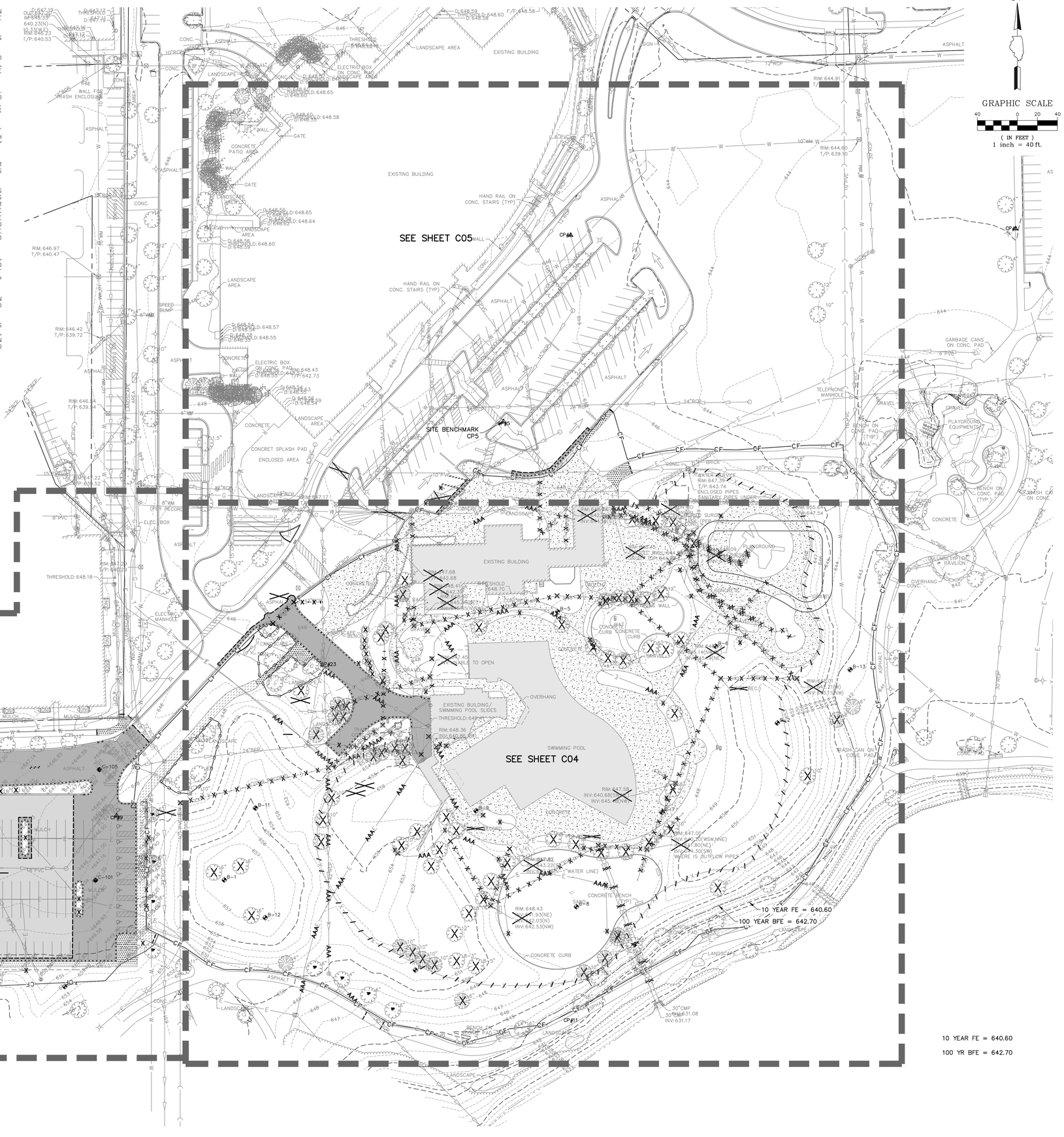
File Location: G:\58005987.151 Wheeling PD Aquatic Cen\58987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pwhalek / PLOT DATE: 2/26/2026 3:44 PM BY: Brian Spencer

EXISTING CONDITION AND DEMOLITION NOTES

1. PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
2. PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION AND ROOT PRUNING AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FENCING THE ACTIVE WORK ZONE FROM THE PUBLIC AND PROTECTING THE PUBLIC FROM ANY CONSTRUCTION RELATED HAZARDS. AT A MINIMUM, ALL EXCAVATION, DEMOLITION AREAS AND OTHER AREAS POTENTIALLY HAZARDOUS TO PEDESTRIANS AND VEHICLES MUST BE PROTECTED.
4. AT ALL TIMES, MAIN DRIVE, LOADING DOCKS, AND DUMPSTER AREAS SHALL REMAIN OPEN AND UNOBSTRUCTED. TEMPORARY SHUT DOWN OF ONE TRAFFIC LANE AT A TIME WILL BE PERMITTED FOR SHORT TERM PERIODS AND SHALL BE COORDINATED WITH APPOINTED PROPERTY OWNER CONSTRUCTION STAFF. SHORT TERM CLOSINGS SHALL BE COMPLETED WITHIN THE WORK DAY AND RESTORED TO UNOBSTRUCTED ACCESS BY THE CLOSE OF THE WORK DAY.
5. TEMPORARY STONE OR ASPHALT PATHWAYS SHALL BE PROVIDED AS NEEDED THROUGHOUT THE COURSE OF CONSTRUCTION TO FACILITATE SAFE PEDESTRIAN AND VEHICULAR MOVEMENT. THE LONGITUDINAL SLOPE OF SUCH PATHS SHALL NOT EXCEED 5% AND CROSS SLOPES SHALL NOT EXCEED 2%. PROVIDE 6" CA-6 BASE AND 2" SURFACE ASPHALT.
6. THE EXISTING AMPHITHEATER FACILITY TO THE SOUTHWEST WILL REMAIN OPEN AND ACTIVELY USED. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL PLANS AND COORDINATE WITH UTILITY COMPANIES TO ENSURE CONTINUOUS UTILITY SERVICES DURING DEMOLITION AND TRANSITIONING OF SERVICES.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REUSE, AND DISPOSAL OF ALL EXISTING IMPROVEMENTS ONSITE NECESSARY TO COMPLETE THE JOB. THESE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO, EXISTING PAVEMENTS, CURBS, SIDEWALKS, UTILITIES, LIGHTING, LIGHT BASES, MANHOLES, FENCES, FOUNDATIONS, AND OTHER STRUCTURES WITHIN THE WORK AREA. EXCAVATE AND GRADE TO PROPOSED PAVEMENT AND BUILDING SUBBASE GRADES. (REFER TO FOUNDATION PLANS FOR PROPOSED BUILDING SUBBASE GRADES.) THESE ITEMS SHALL BE COMPLETELY REMOVED AND LEGALLY DISPOSED OF OFFSITE. EXISTING CONCRETE TO BE CRUSHED AND REUSED ON-SITE FOR FILL IN SELECT AREAS. DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE CRUSHED CONCRETE AND GRADATION PER SPEC. CRUSHED CONCRETE TO MEET IDOT SPECIFICATION OR APPROVED EQUAL. CRUSHED CONCRETE SHALL NOT BE USED FOR SELECT FILL FOR PIPE BEDDING OR BUILDING FOUNDATION.
8. REMOVE OR ABANDON EXISTING UTILITIES AS SHOWN. UTILITIES THAT ARE REMOVED, UNLESS OTHERWISE NOTED, SHALL BE BACKFILLED WITH CA-6 CRUSHED STONE IN LIFTS OF 8" OR LESS AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY. UTILITIES TO BE ABANDONED SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF 2 FEET LONG NON-SHRINK CONCRETE/MORTAR PLUGS. MANHOLE STRUCTURES TO BE ABANDONED SHALL HAVE THE TOP SECTION REMOVED, SEWERS BULKHEADED WITH CONCRETE AND BACKFILLED WITH CA-6 CRUSHED STONE.
9. TEMPORARILY REMOVE, STORE AND PROTECT SIGNS AND POSTS WITHIN AFFECTED WORK ZONE FOR REINSTALLATION AND TEMPORARILY REMOVE, STORE AND PROTECT ALL WEST PARKING LOT LIGHT POLES WITHIN THE AFFECTED WORK ZONE FOR REINSTALLATION. COORDINATE ONSITE STORAGE WITH PROPERTY OWNER.
10. THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
11. SEE GEOTECH REPORT FOR BORING AND CORE NOTES.
12. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.





N

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

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CONSTRUCTION MANAGER
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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING CONDITIONS / DEMOLITION PLAN - OVERALL

C02

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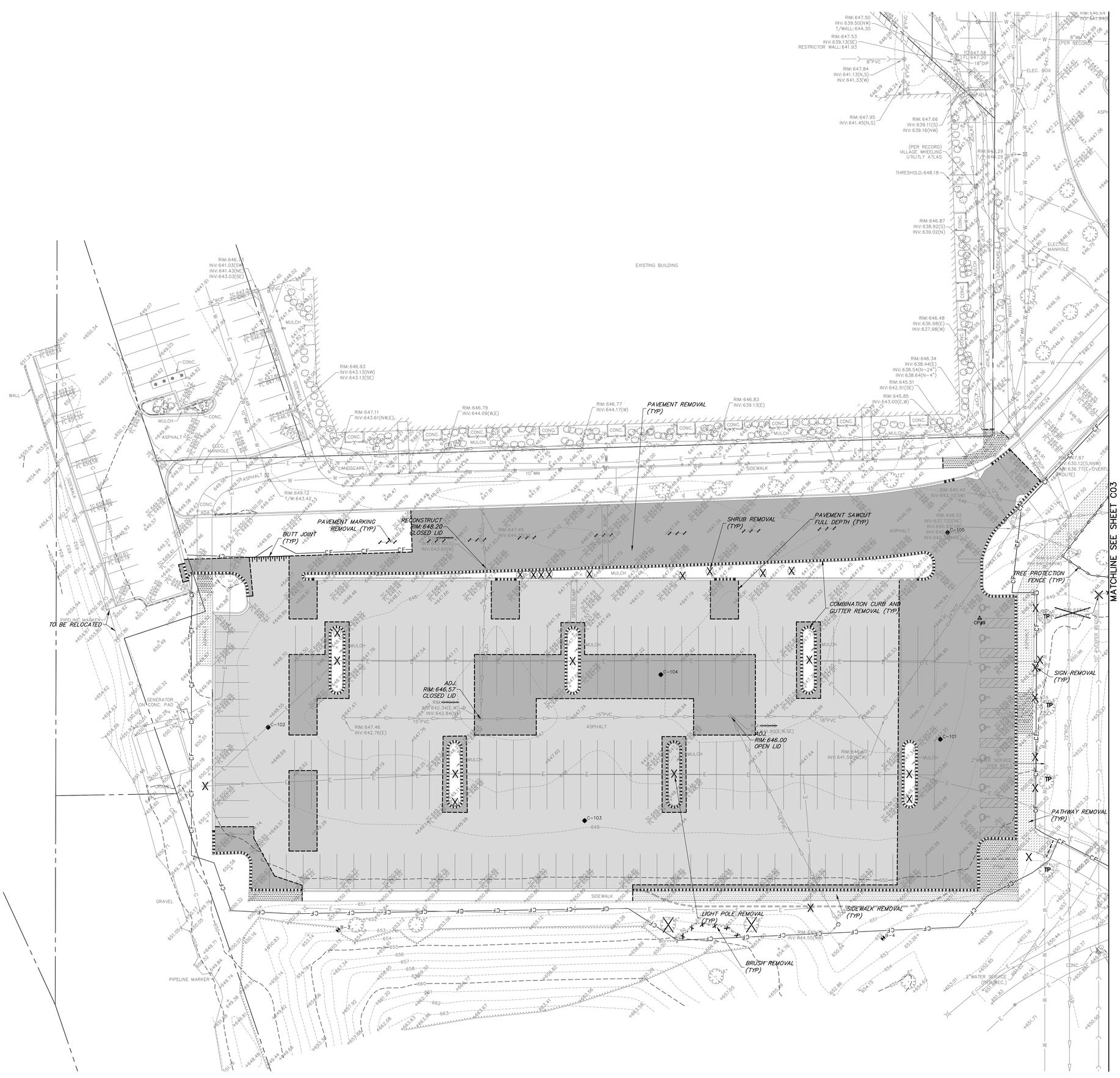
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS PLOT SCALE IS CORRECT

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AND NUMBERED 1 THROUGH 5

File Location: G:\95005987 151 Wheeling PO Aquatic Cntr\5987 151 PR\ | SAVE DATE: 2/26/2026 9:55 PM BY: tspencer | PLOT DATE: 2/26/2026 10:22 PM BY: Brian Spencer



GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

REMOVAL LEGEND

- BUILDING/POOL REMOVAL
- PAVEMENT REMOVAL FULL DEPTH
- HMA PAVEMENT REMOVAL VARIABLE THICKNESS, REFER TO GEOTECH
- CONCRETE REMOVAL
- SIDEWALK REMOVAL
- ASPHALT PATHWAY REMOVAL
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- SIGN REMOVAL
- LIGHT POLE REMOVAL
- TREE/SHRUB REMOVAL
- TREE TO BE TRANSPLANTED SEE LANDSCAPE ARCHITECT PLANS
- TREE PROTECTION FENCE
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- STRUCTURE REMOVAL
- FENCE REMOVAL
- PAVEMENT SAWCUT FULL DEPTH
- BUTT JOINT
- PERIMETER EROSION BARRIER
- 10 YEAR FE: 640.6
- BFE: 642.7
- BORING LOCATION
- CORE LOCATION
- CONTROL POINT
- CONSTRUCTION FENCING

NOTE:
SEE SHEET C02 FOR EXISTING CONDITIONS AND DEMOLITION NOTES

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WHEELING PARK DISTRICT AQUATICS CENTER

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105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING CONDITIONS / DEMOLITION PLAN

C03

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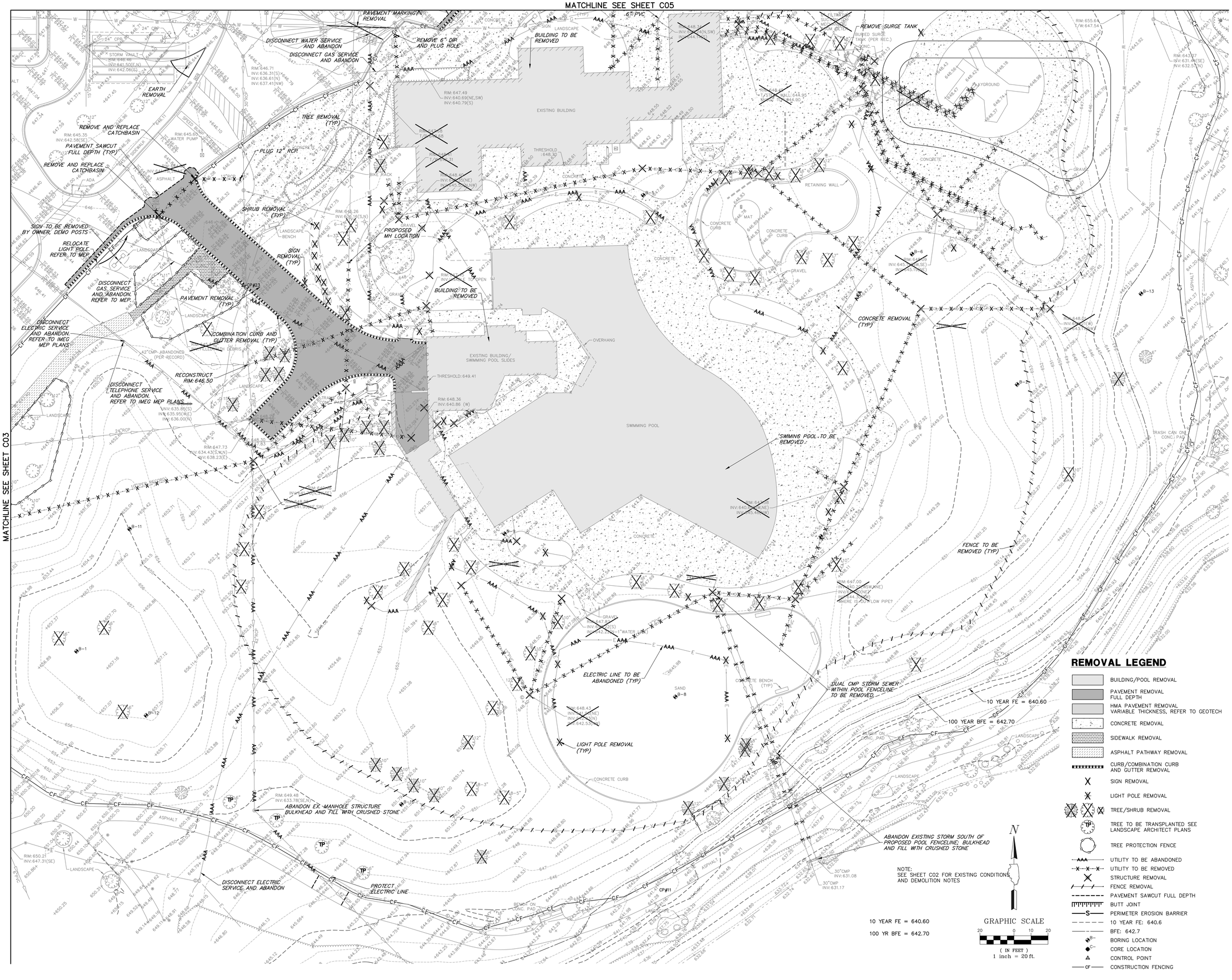

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
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Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING CONDITIONS / DEMOLITION PLAN

C04

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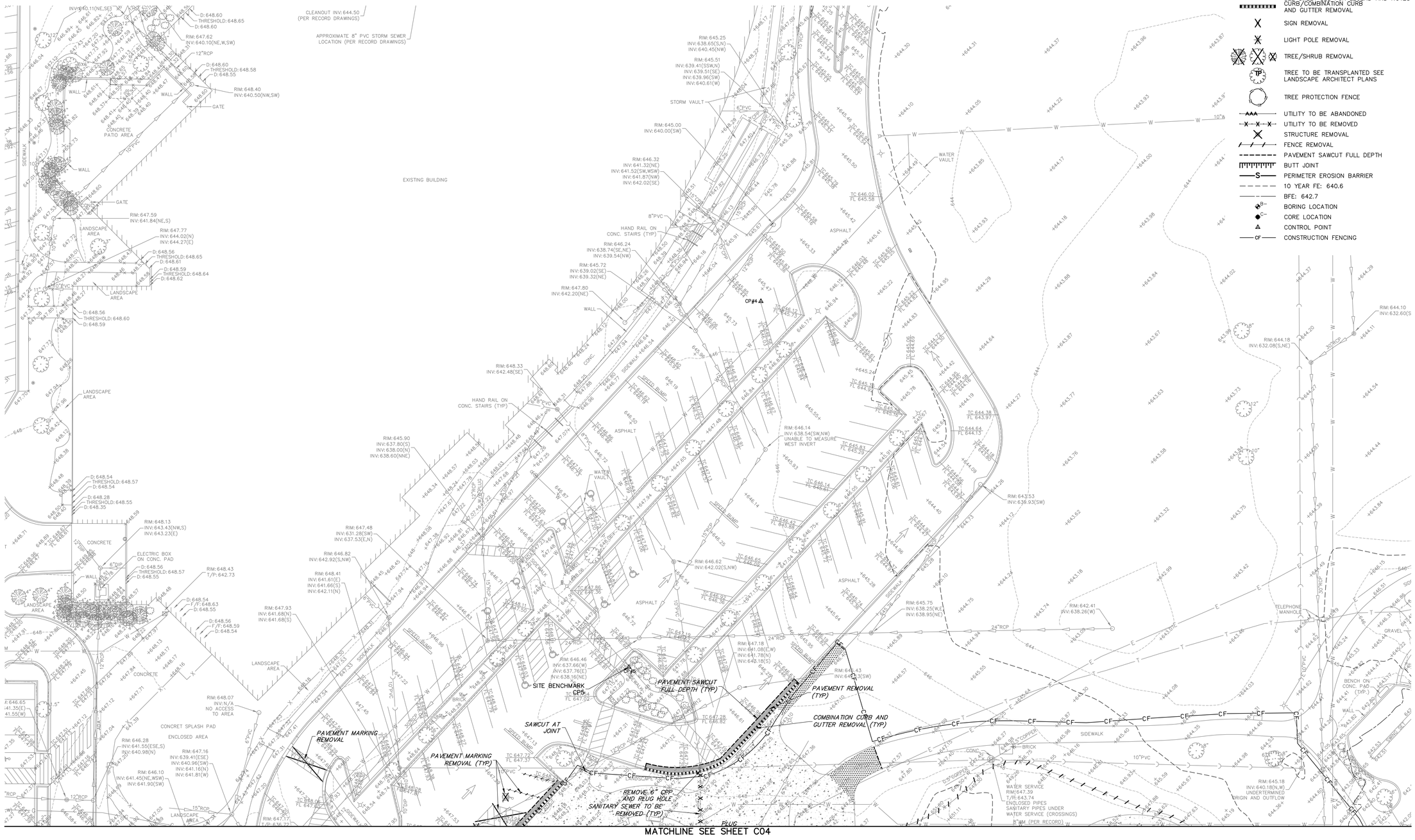
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ENTIRE SHEET IS 24"x36"

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN ORDER: R-G-B-C-M-Y-K



REMOVAL LEGEND

- BUILDING/POOL REMOVAL
- PAVEMENT REMOVAL FULL DEPTH
- HMA PAVEMENT REMOVAL VARIABLE THICKNESS, REFER TO GEOTECH
- CONCRETE REMOVAL
- SIDEWALK REMOVAL
- ASPHALT PATHWAY REMOVAL
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- SIGN REMOVAL
- LIGHT POLE REMOVAL
- TREE/SHRUB REMOVAL
- TREE TO BE TRANSPLANTED SEE LANDSCAPE ARCHITECT PLANS
- TREE PROTECTION FENCE
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- STRUCTURE REMOVAL
- FENCE REMOVAL
- PAVEMENT SAWCUT FULL DEPTH
- BUTT JOINT
- PERIMETER EROSION BARRIER
- 10 YEAR FE: 640.6
- BFE: 642.7
- BORING LOCATION
- CORE LOCATION
- CONTROL POINT
- CONSTRUCTION FENCING

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

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847.478.9700

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING CONDITIONS / DEMOLITION PLAN

C05

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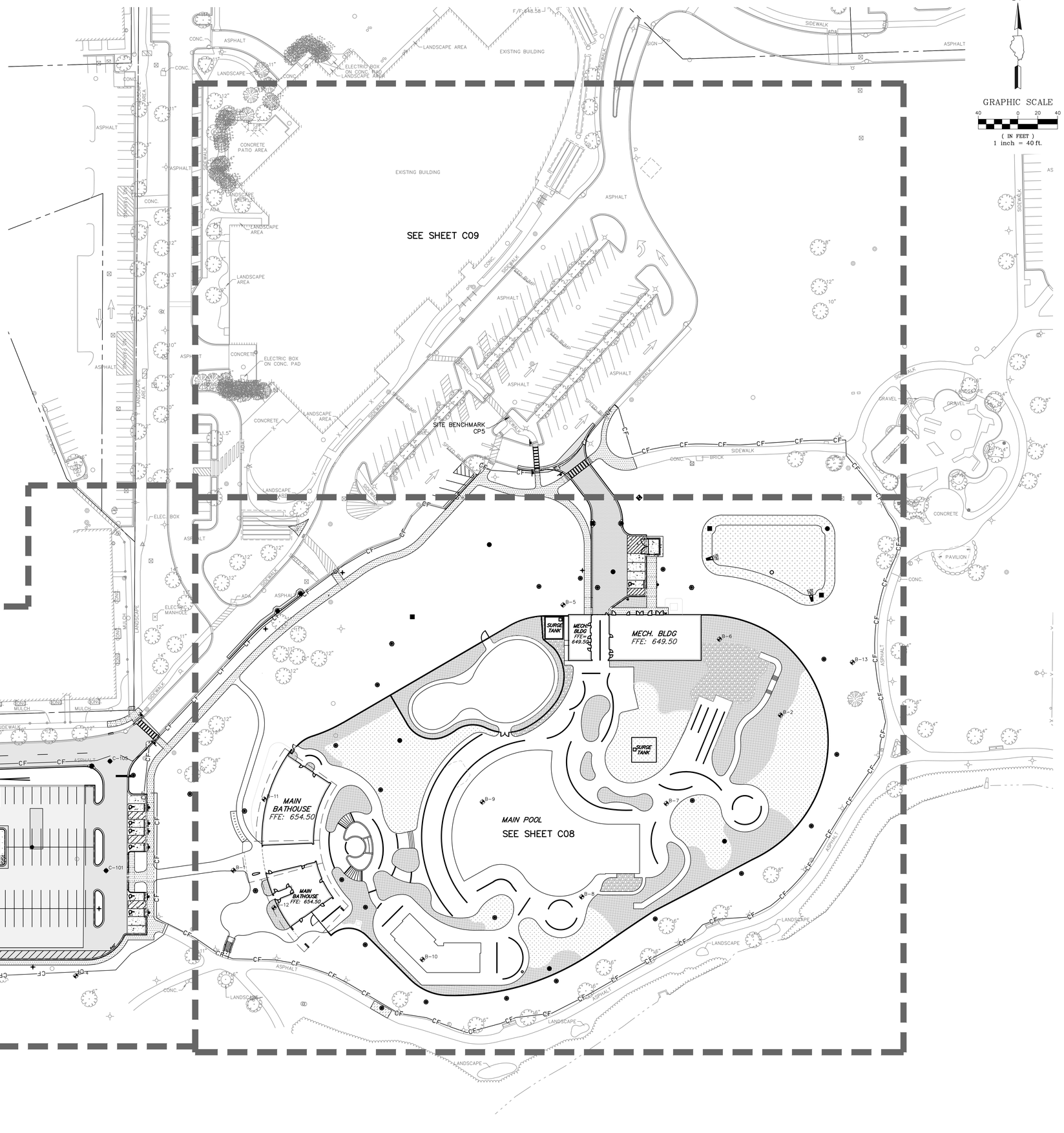
File Location: G:\9900\9987.151 Wheeling PD Aquatic Cen\9987.151 PR / SAVE DATE: 2/26/2026 9:55 PM BY: bspencer / PLOT DATE: 2/26/2026 10:23 PM BY: Brian Spencer

IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOTTED SCALE, DRAWING IS ONE INCH SQUARE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY

GEOMETRIC AND PAVING PLAN

1. ALL PAVEMENT DIMENSIONS ARE TO EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. E=EDGE OF PAVEMENT, B=BACK OF CURB, F=FACE OF CURB. RADII DIMENSIONS ARE TO EDGE OF PAVEMENT.
2. INSTALL ALL CURB AND SIDEWALK AS SHOWN. NOTE SOME CURBS REQUIRE REVERSE PITCH GUTTER. DOWEL NEW SIDEWALK AND CURB TO EXISTING AND PROPOSED CURBS PER GENERAL NOTES. WHEN CONSTRUCTING A CARRIAGE WALK, THE PROPOSED SIDEWALK CONTRACTION AND EXPANSION JOINTS SHALL ALIGN WITH EXISTING CURB JOINTS.
3. PROVIDE 1.90% CROSS SLOPE AND 4.5% MAXIMUM LONGITUDINAL SLOPE ON ALL SIDEWALKS AND PEDESTRIAN PATH WAYS UNLESS OTHERWISE INDICATED. ILLINOIS ACCESSIBILITY CODE REQUIRES A MAXIMUM CONSTRUCTED CROSS SLOPE OF 2.00% AND LONGITUDINAL SLOPE OF 5.00%.
4. INSTALL BITUMINOUS PAVEMENT AS SHOWN. REFER TO DETAIL SHEET FOR SPECIFIC PAVEMENT SECTIONS AND GENERAL NOTE SHEET FOR CONSTRUCTION, TESTING AND COMPACTION REQUIREMENTS.
5. INSTALL PCC PAVEMENT AS SHOWN. REFER TO DETAIL SHEET FOR SPECIFIC PAVEMENT SECTION AND GENERAL NOTES FOR CONSTRUCTION, TESTING AND COMPACTION REQUIREMENTS.
6. ALL PARKING LOT STALL MARKINGS SHALL BE 4" YELLOW PAINT AND ALL OTHER PARKING LOT PAVEMENT MARKINGS SHALL BE PAINT, COLOR AS NOTED, IN ACCORDANCE WITH SECTION 780 OF THE IDOT STANDARD SPECIFICATIONS. (TWO SINGLE APPLICATIONS, 16 MILS EACH REQUIRED). SITE PAVEMENT MARKING SHALL BE COORDINATED WITH SITE ENGINEER. CONTRACTOR SHALL NOTIFY SITE ENGINEER 48 HRS PRIOR TO INSTALLING PAVEMENT MARKING.
7. FOR HANDICAPPED STALL MARKINGS, REFER TO HANDICAPPED PARKING STALL AND SIGN DIMENSIONING DETAIL.
8. INSTALL NEW SIGNS AND HANDICAPPED PARKING SIGNS USING 2" GALVANIZED SQUARE TUBE POST AND TELESCOPING POST SLEEVE PER IDOT STANDARD.
9. INSTALL RETAINING WALL AS SHOWN. REFER TO DETAIL SHEET FOR MATERIAL AND DESIGN REQUIREMENTS.
10. INSTALL TRANSFORMER PAD AS SHOWN. PAD SHALL BE SET 6" ABOVE FINISHED GRADE. REFER TO MEP PLANS FOR FINAL PAD SIZE AND DESIGN REQUIREMENTS.
11. CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL SEED AND BLANKET AS NECESSARY TO MEET SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS. REFER TO NOTES AND DETAILS THROUGHOUT THE PLAN SET FOR SPECIFIC MATERIAL REQUIREMENTS.
12. FOR FINAL RESTORATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DISTURBED TURF AREAS AND PROPOSED TURF AREAS AS FOLLOWS, REFER TO LANDSCAPE PLANS FOR ALL TOPSOIL AND RESTORATION SPECIFICATIONS.
13. ONCE RESTORATION HAS BEEN COMPLETED, THE CONTRACTOR SHALL REMOVE EROSION CONTROL DEVICES. SILT FENCE TRENCHES SHALL BE BACKFILLED AND RESTORED IN KIND. STORM STRUCTURES SHALL BE CLEANED OF DEBRIS.
14. INSTALL PARKING LOT AND CONCRETE PAVEMENT AS SHOWN. WHERE HMA PAVEMENT REMOVAL AND REPLACEMENT IS INDICATED, THE EXISTING STONE BASE SHALL BE REGRADED TO MEET THE 4" ASPHALT DEPTH AND RECOMPACTED AND PROOF ROLLED PRIOR TO REPAVING.
15. ALL 8" PCC PAVEMENT AND B6.12 CURB AND GUTTER CONTRACTION JOINTS SHALL BE SAWCUT A MINIMUM OF 2" DEEP WITHIN 12 HOURS OF POUR.
16. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET



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Revision Schedule

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1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GEOMETRIC PLAN - OVERALL

C06

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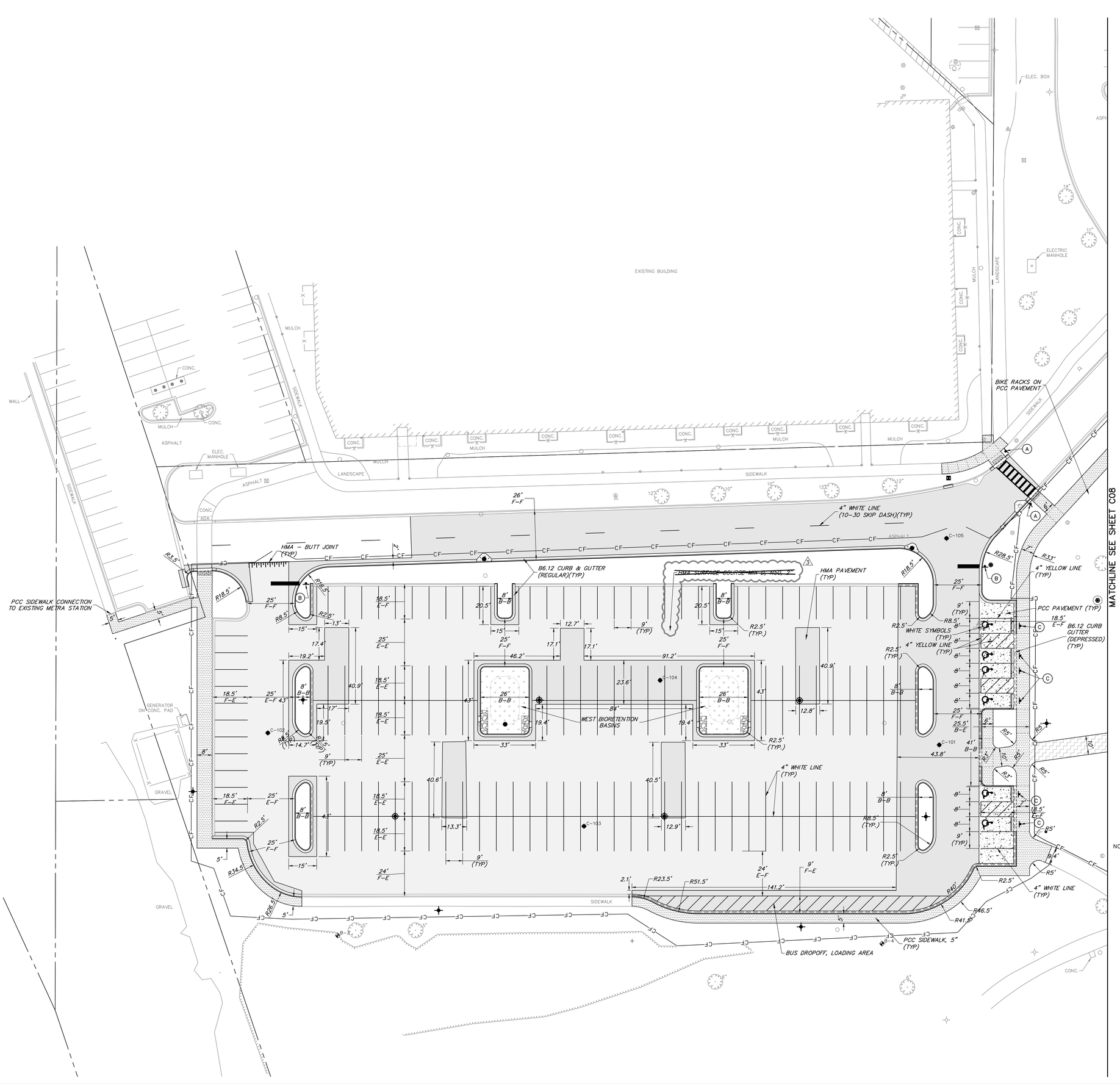
File Location: G:\95005987.151 Wheeling PD Aquatic Cntr\5987.151 PR\ | SAVE DATE: 3/27/2026 7:11 AM BY: pswistek | PLOT DATE: 3/27/2026 1:59 PM BY: Brian Spencer

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ENTIRE SHEET IS ORIGINALLY PLOTTED

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED ON ANSI D SIZE PAPER



N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

PROPOSED LEGEND

- NORMAL DUTY HMA PAVEMENT
  1.75" HMA SURFACE COURSE, MIX "D", N50
  2.25" HMA BINDER COURSE, IL-19.0, N50
  10" CA-6 CRUSHED STONE
- HEAVY DUTY HMA PAVEMENT
  2" HMA SURFACE COURSE, MIX "D", N50
  4" HMA BINDER COURSE, IL-19.0, N50
  8" CA-6 CRUSHED STONE
- HMA PAVEMENT REMOVAL & REPLACEMENT
  1.75" HMA SURFACE COURSE, MIX "D", N50
  2.25" HMA BINDER COURSE, IL-19.0, N50
  REGRADE EX. AGGREGATE BASE AS NEEDED
- PCC PAVEMENT
  8" PCC CONCRETE
  6" CA-6 CRUSHED STONE
- PCC SIDEWALK (WITH WELDED WIRE FABRIC)
  5" PCC CONCRETE
  W4.0xW4.0 (WWF)
  8" CA-6 CRUSHED STONE
- PCC SIDEWALK
  5" PCC CONCRETE
  4" CA-6 CRUSHED STONE
- STONE RIP RAP, CLASS RR3
- BIORETENTION BASINS (SEE PLANTING PLAN FOR DETAILS)
- PLANTING AREA (SEE PLANTING PLAN FOR DETAILS)
- TURF GRASS AREA (SEE PLANTING PLAN FOR DETAILS)
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- HMA - BUTT JOINT
- FENCE
- RETAINING WALLS
- CONTROL POINT

PARKING COUNTS

EXISTING PARKING SPACES

ACCESSIBLE PARKING SPACES	8
REGULAR PARKING SPACES	197
TOTAL EXISTING PARKING SPACES	205

PROPOSED PARKING SPACES

ACCESSIBLE PARKING SPACES	7
REGULAR PARKING SPACES	185
TOTAL PROPOSED PARKING SPACES*	192

*INCLUDES (3) REGULAR AND (1) ACCESSIBLE SPACE FROM MAINTENANCE DRIVE. REFERENCE SHEET C08
**REQUIRED PARKING CALCULATED BY OVERALL PROPERTY PER ORD 2917-5118. SEE SEPARATE PARKING EXHIBITS FOR DETAILS. SUMMARY BELOW.

H:\Screenshot 2026-01-22 195838.png

NOTE: SEE SHEET C06 FOR GEOMETRIC AND PAVING PLAN NOTES

SIGN LEGEND:

(A) YIELD HERE TO PEDESTRIANS SIGN

(B) STOP SIGN

(C) RESERVED ADA PARKING SIGN

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4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GEOMETRIC PLAN

C07

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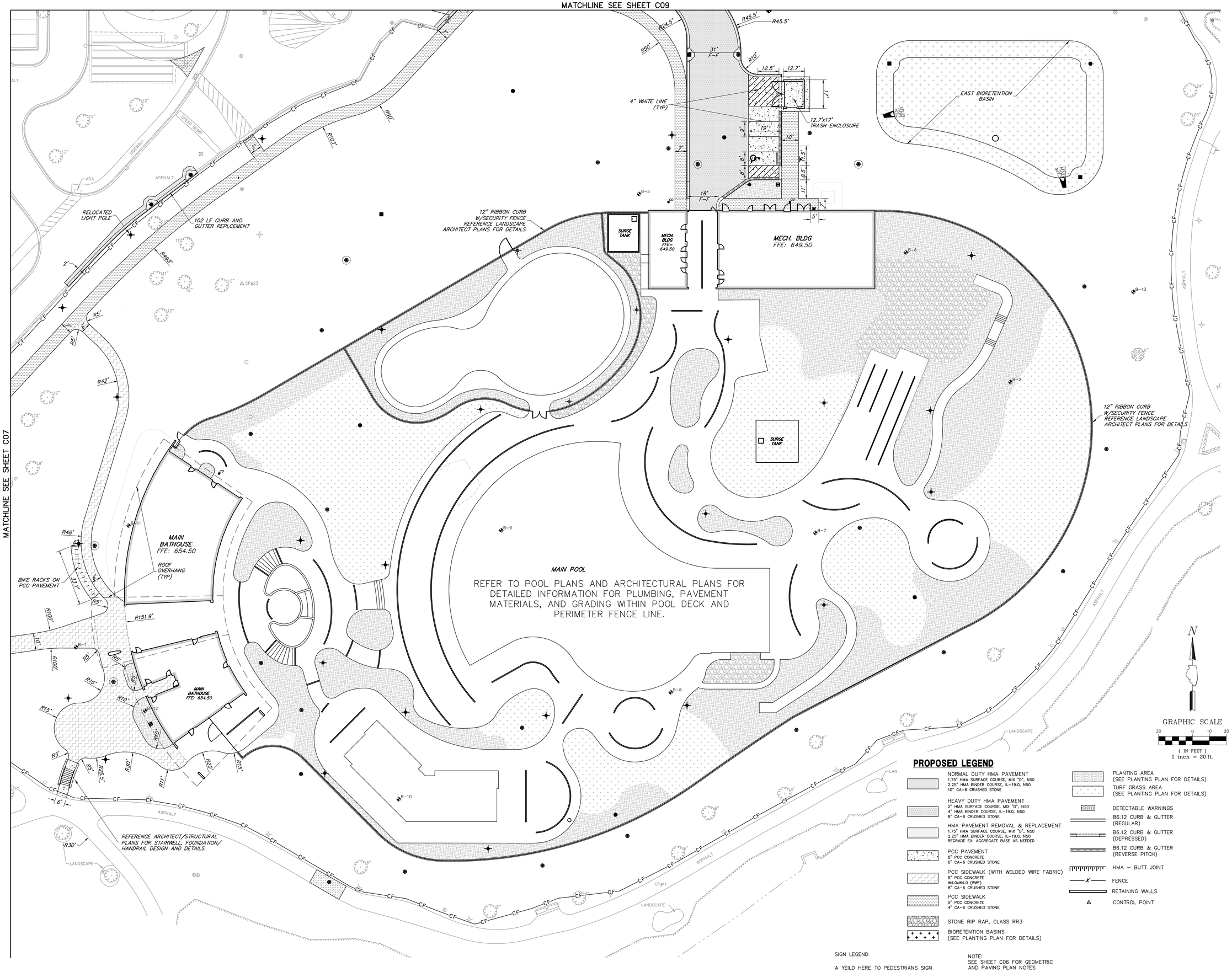

PROPOSED LEGEND

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- HMA – BUTT JOINT
- FENCE
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- CONTROL POINT

SIGN LEGEND

A YEILD HERE TO PEDESTRIANS SIGN

NOTE:
SEE SHEET C06 FOR GEOMETRIC AND PAVING PLAN NOTES

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GEOMETRIC PLAN

C08

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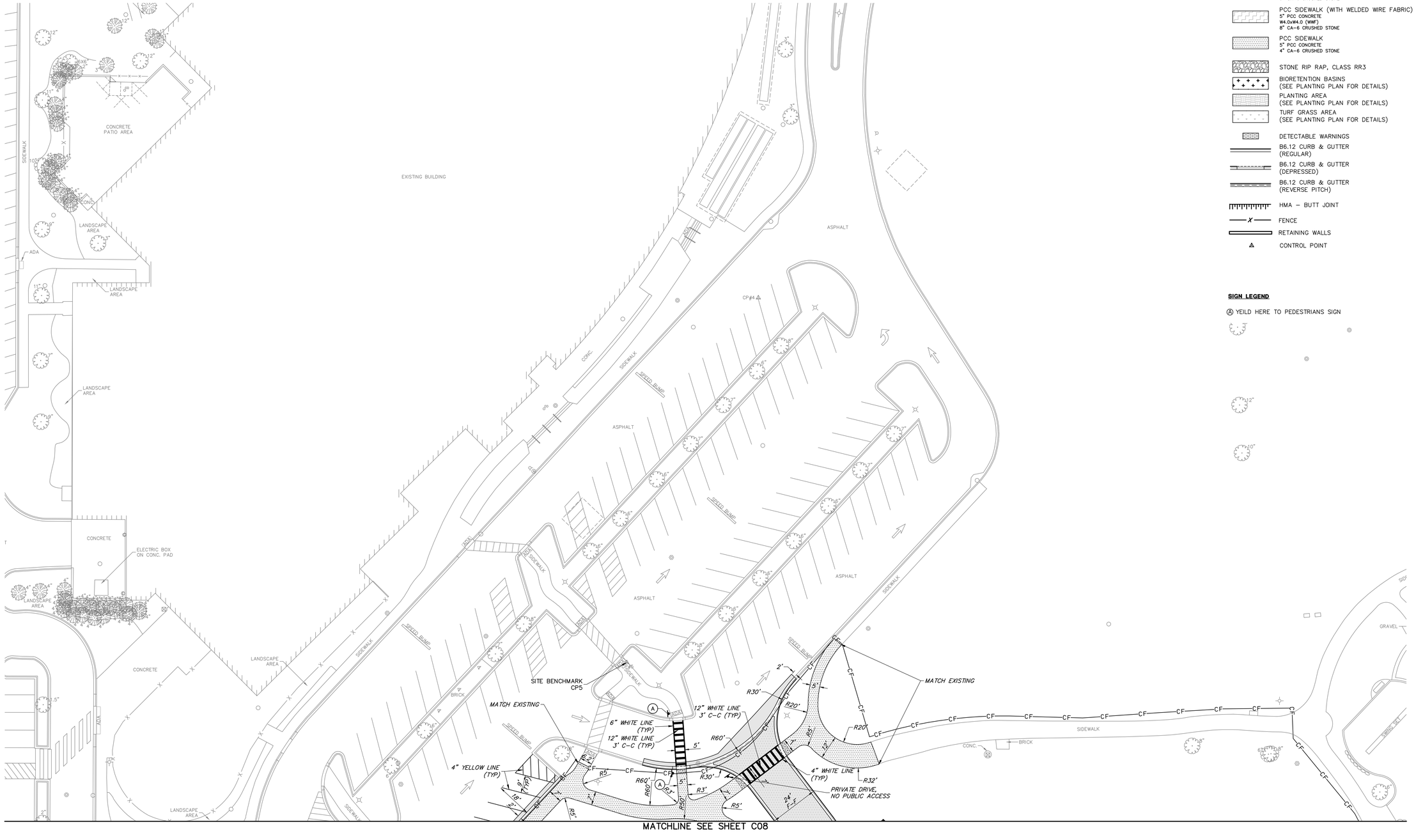

NOTE:
SEE SHEET C06 FOR GEOMETRIC AND PAVING PLAN NOTES

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20 0 10 20
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GEOMETRIC PLAN

C09

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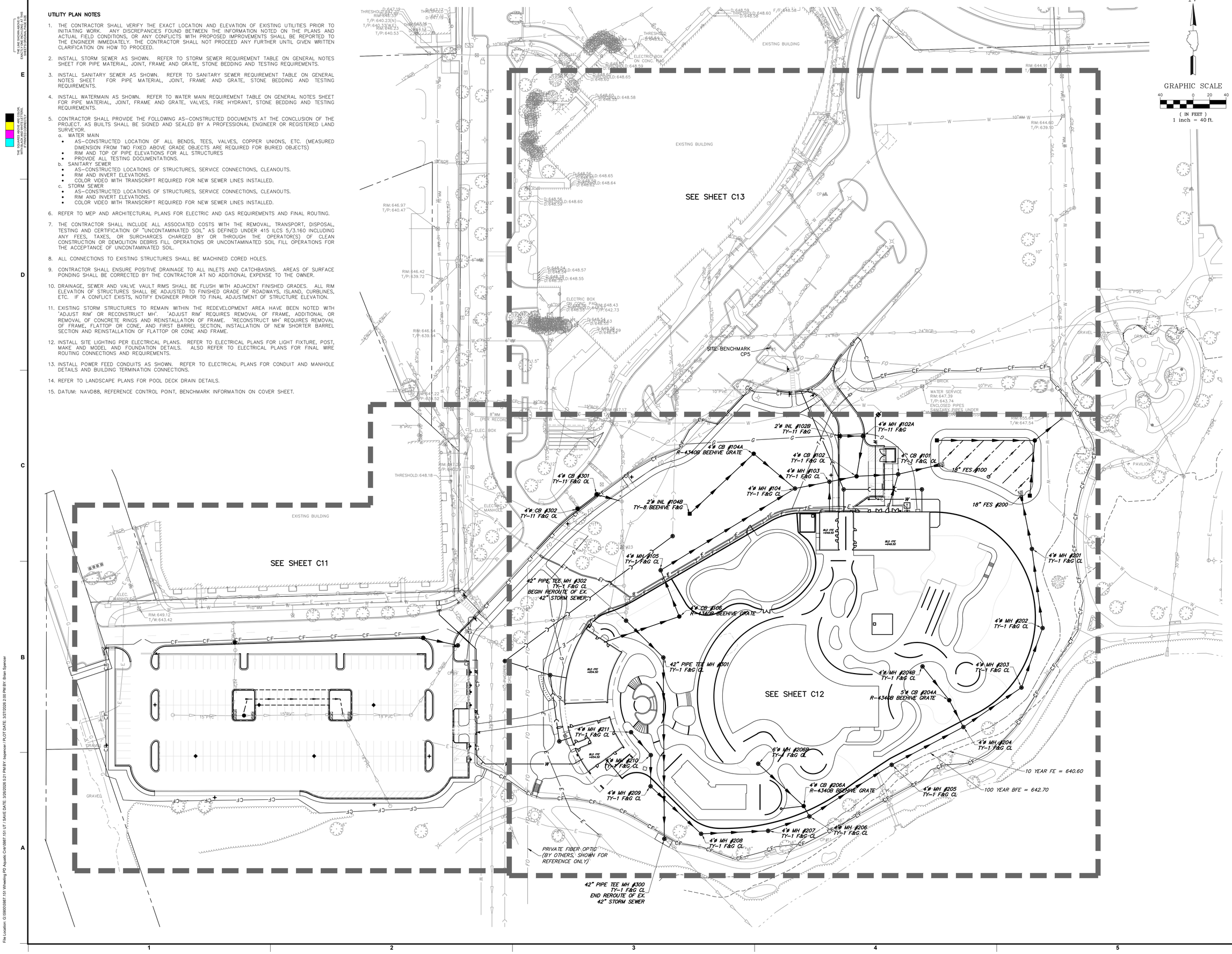
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS SHEET IS FULL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR IDENTIFICATION

UTILITY PLAN NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO INITIATING WORK. ANY DISCREPANCIES FOUND BETWEEN THE INFORMATION NOTED ON THE PLANS AND ACTUAL FIELD CONDITIONS, OR ANY CONFLICTS WITH PROPOSED IMPROVEMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED ANY FURTHER UNTIL GIVEN WRITTEN CLARIFICATION ON HOW TO PROCEED.
2. INSTALL STORM SEWER AS SHOWN. REFER TO STORM SEWER REQUIREMENT TABLE ON GENERAL NOTES SHEET FOR PIPE MATERIAL, JOINT, FRAME AND GRATE, STONE BEDDING AND TESTING REQUIREMENTS.
3. INSTALL SANITARY SEWER AS SHOWN. REFER TO SANITARY SEWER REQUIREMENT TABLE ON GENERAL NOTES SHEET FOR PIPE MATERIAL, JOINT, FRAME AND GRATE, STONE BEDDING AND TESTING REQUIREMENTS.
4. INSTALL WATERMAIN AS SHOWN. REFER TO WATER MAIN REQUIREMENT TABLE ON GENERAL NOTES SHEET FOR PIPE MATERIAL, JOINT, FRAME AND GRATE, VALVES, FIRE HYDRANT, STONE BEDDING AND TESTING REQUIREMENTS.
5. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT. AS BUILTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR.
   a. WATER MAIN
      - AS-CONSTRUCTED LOCATION OF ALL BENDS, TEES, VALVES, COPPER UNIONS, ETC. (MEASURED DIMENSION FROM TWO FIXED ABOVE GRADE OBJECTS ARE REQUIRED FOR BURIED OBJECTS)
      - RIM AND TOP OF PIPE ELEVATIONS FOR ALL STRUCTURES
      - PROVIDE ALL TESTING DOCUMENTATIONS.
   b. SANITARY SEWER
      - AS-CONSTRUCTED LOCATIONS OF STRUCTURES, SERVICE CONNECTIONS, CLEANOUTS.
      - RIM AND INVERT ELEVATIONS.
      - COLOR VIDEO WITH TRANSCRIPT REQUIRED FOR NEW SEWER LINES INSTALLED.
   c. STORM SEWER
      - AS-CONSTRUCTED LOCATIONS OF STRUCTURES, SERVICE CONNECTIONS, CLEANOUTS.
      - RIM AND INVERT ELEVATIONS.
      - COLOR VIDEO WITH TRANSCRIPT REQUIRED FOR NEW SEWER LINES INSTALLED.
6. REFER TO MEP AND ARCHITECTURAL PLANS FOR ELECTRIC AND GAS REQUIREMENTS AND FINAL ROUTING.
7. THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
8. ALL CONNECTIONS TO EXISTING STRUCTURES SHALL BE MACHINED CORED HOLES.
9. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL INLETS AND CATCHBASINS. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
10. DRAINAGE, SEWER AND VALVE VAULT RIMS SHALL BE FLUSH WITH ADJACENT FINISHED GRADES. ALL RIM ELEVATION OF STRUCTURES SHALL BE ADJUSTED TO FINISHED GRADE OF ROADWAYS, ISLAND, CURBLINES, ETC. IF A CONFLICT EXISTS, NOTIFY ENGINEER PRIOR TO FINAL ADJUSTMENT OF STRUCTURE ELEVATION.
11. EXISTING STORM STRUCTURES TO REMAIN WITHIN THE REDEVELOPMENT AREA HAVE BEEN NOTED WITH 'ADJUST RIM' OR RECONSTRUCT MH'. 'ADJUST RIM' REQUIRES REMOVAL OF FRAME, ADDITIONAL OR REMOVAL OF CONCRETE RINGS AND REINSTALLATION OF FRAME. 'RECONSTRUCT MH' REQUIRES REMOVAL OF FRAME, FLATTOP OR CONE, AND FIRST BARREL SECTION, INSTALLATION OF NEW SHORTER BARREL SECTION AND REINSTALLATION OF FLATTOP OR CONE AND FRAME.
12. INSTALL SITE LIGHTING PER ELECTRICAL PLANS. REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE, POST, MAKE AND MODEL AND FOUNDATION DETAILS. ALSO REFER TO ELECTRICAL PLANS FOR FINAL WIRE ROUTING CONNECTIONS AND REQUIREMENTS.
13. INSTALL POWER FEED CONDUITS AS SHOWN. REFER TO ELECTRICAL PLANS FOR CONDUIT AND MANHOLE DETAILS AND BUILDING TERMINATION CONNECTIONS.
14. REFER TO LANDSCAPE PLANS FOR POOL DECK DRAIN DETAILS.
15. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.



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40 0 20 40

(IN FEET)

1 inch = 40 ft.

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CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
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Zion, IL 60099
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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

UTILITY PLAN - OVERALL

C10

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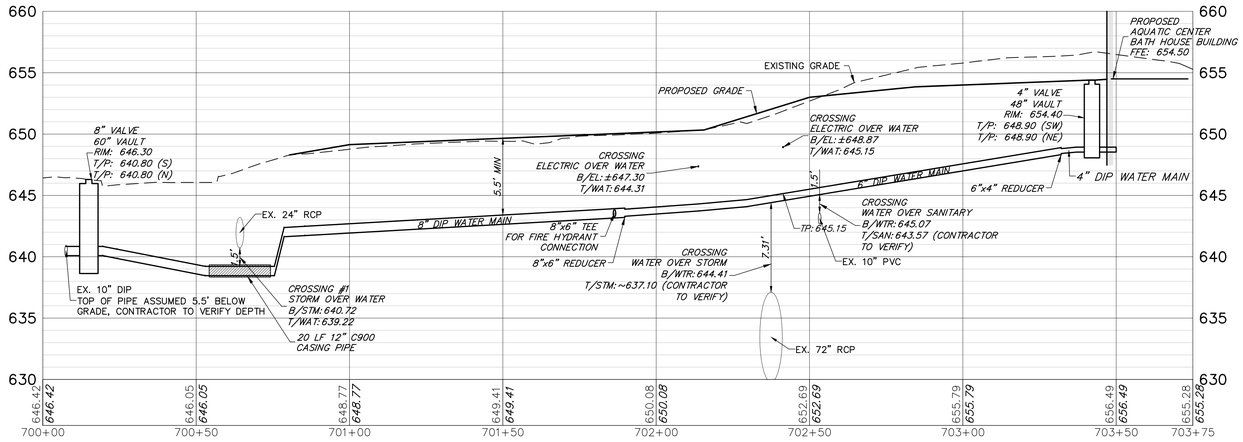
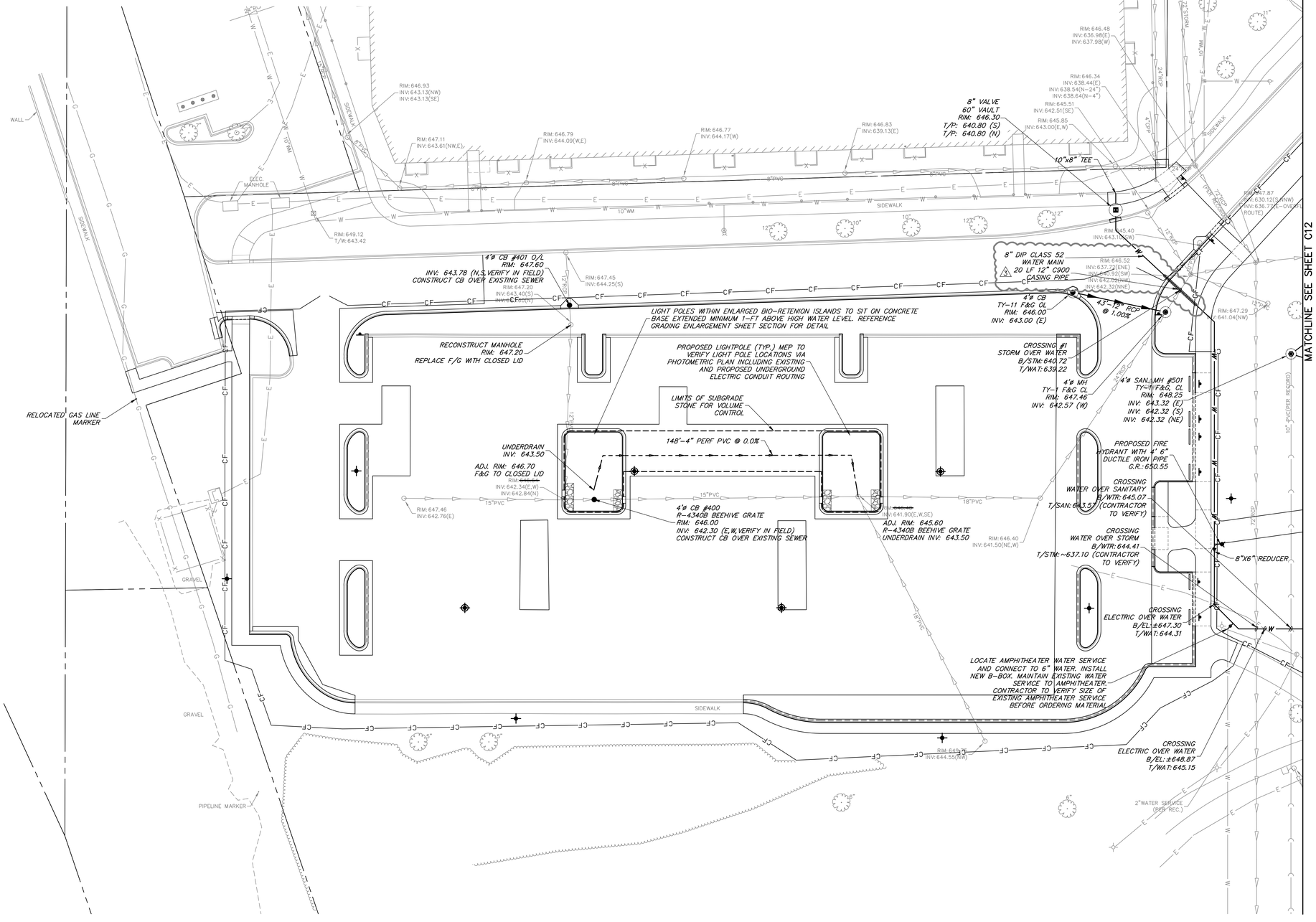


WATER MAIN PROFILE AQUATIC CENTER BATH HOUSE BUILDING



UTILITY PLAN LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN

EXISTING	PROPOSED	
◎	◉	STORM MANHOLE
○	●	STORM CATCHBASIN
□	■	STORM INLET
▭	▰	FLARED END SECTION
◎	◉	SANITARY MANHOLE
⊠	■	VALVE VAULT
⊗	●	VALVE BOX
♉	♉	FIRE HYDRANT
⊙	◒	BUFFALO BOX
✧	✦	STREET LIGHT
◈	◈	STREET LIGHT ON CONC. FOUNDATION
⊸	⊸	POWER POLE
⊣	⊣	SIGN
– – – – –		10 YEAR FE: 640.6
———		100 YEAR BFE: 642.7
	△	100 YEAR BFE: 642.7
	○	POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)

NOTE:
DATUM NAVD88

SEE SHEET C10 FOR UTILITY PLAN NOTES

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

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Date	2026-03-27

UTILITY PLAN

C11

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THE SQUARES ABOVE ARE (FROM LEFT TO RIGHT) BLACK, YELLOW, MAGENTA, AND CYAN WITH BLACK AND WHITE LETTERS.

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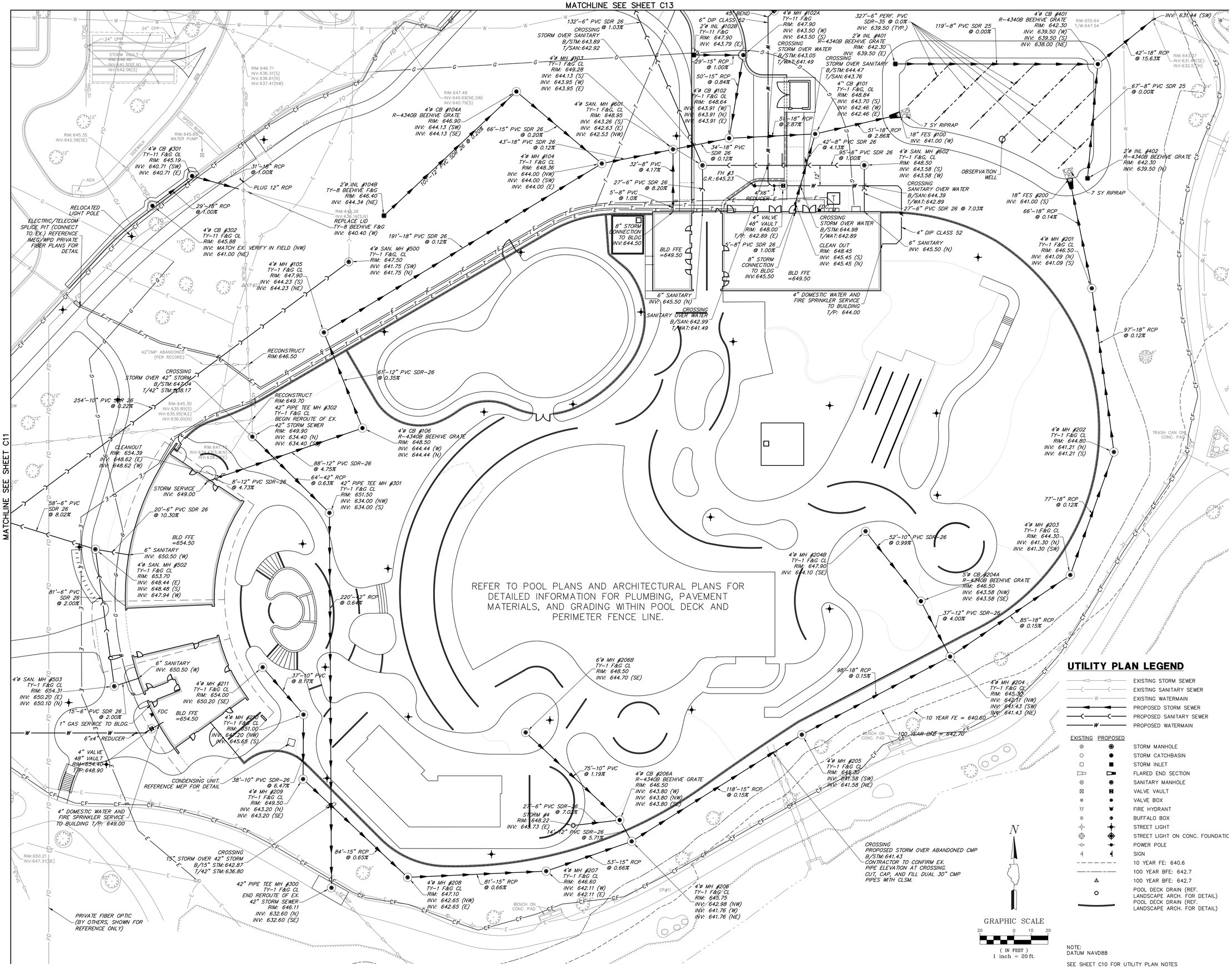

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UTILITY PLAN

C12

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N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

UTILITY PLAN LEGEND

EXISTING	PROPOSED	
		EXISTING STORM SEWER
		EXISTING SANITARY SEWER
W		EXISTING WATERMAIN
		PROPOSED STORM SEWER
		PROPOSED SANITARY SEWER
	W	PROPOSED WATERMAIN
		STORM MANHOLE
		STORM CATCHBASIN
		STORM INLET
		FLARED END SECTION
		SANITARY MANHOLE
		VALVE VAULT
		VALVE BOX
		FIRE HYDRANT
		BUFFALO BOX
		STREET LIGHT
		STREET LIGHT ON CONC. FOUNDATIC
		POWER POLE
		SIGN
		10 YEAR FE: 640.6
		100 YEAR BFE: 642.7
		100 YEAR BFE: 642.7
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)
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NOTE:
DATUM NAVD88

SEE SHEET C10 FOR UTILITY PLAN NOTES

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Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

UTILITY PLAN

C13

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GRAPHIC SCALE
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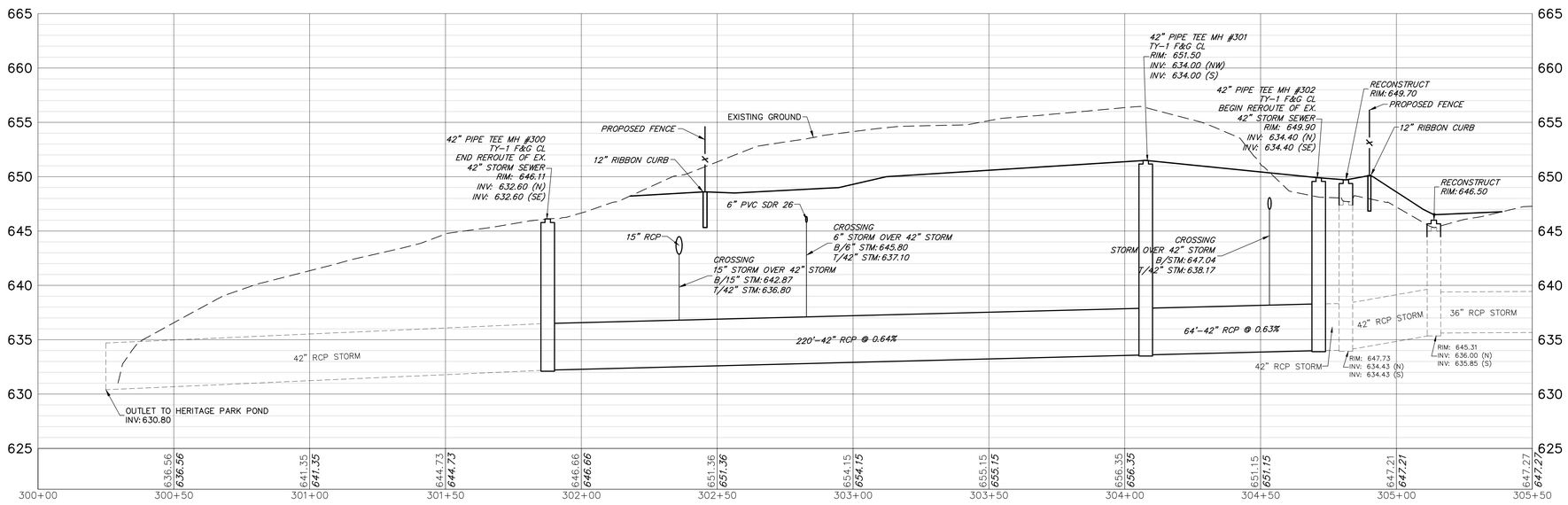
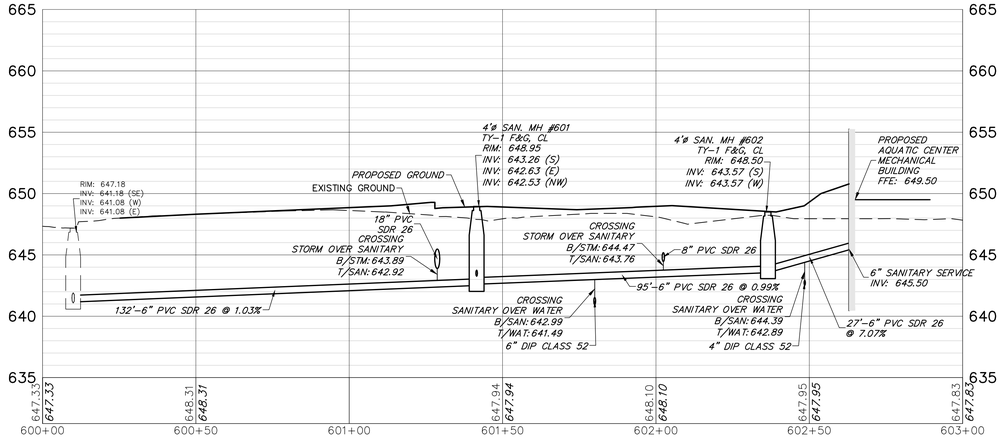
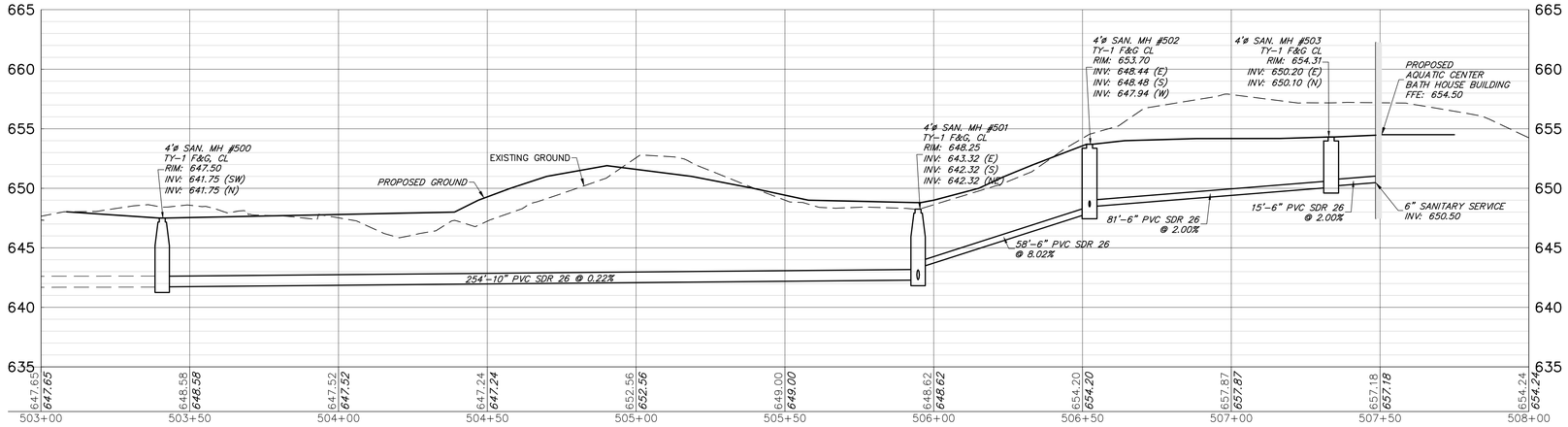
(IN FEET)
H. 1" = 20 ft. V. 1" = 5 ft.



42" STORM SEWER REROUTE PROFILE



SANITARY SEWER PROFILE FROM AQUATIC CENTER MECHANICAL BUILDING



SANITARY SEWER PROFILE FROM AQUATIC CENTER BATH HOUSE BUILDING

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
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Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

UTILITY PROFILES

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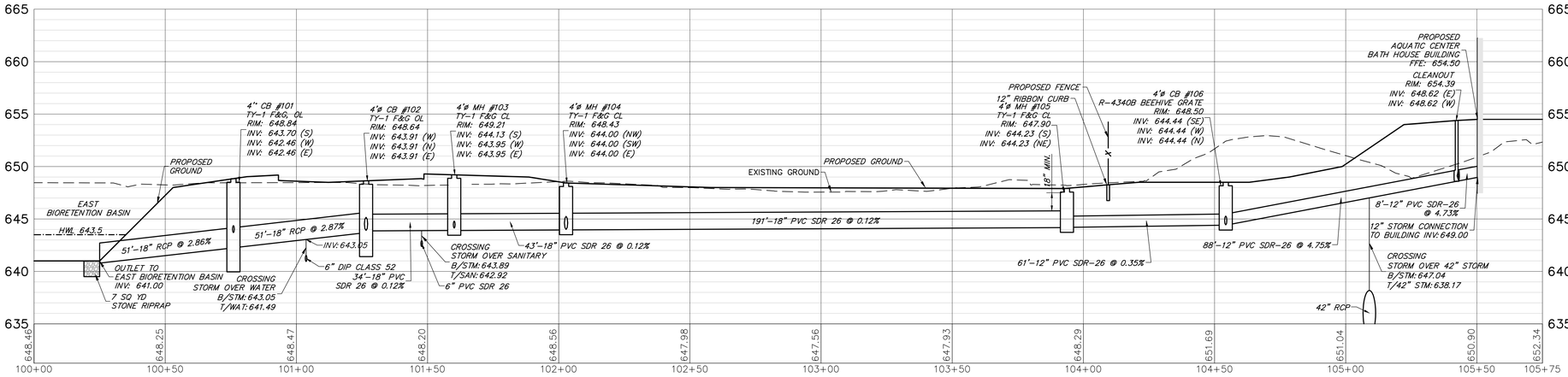
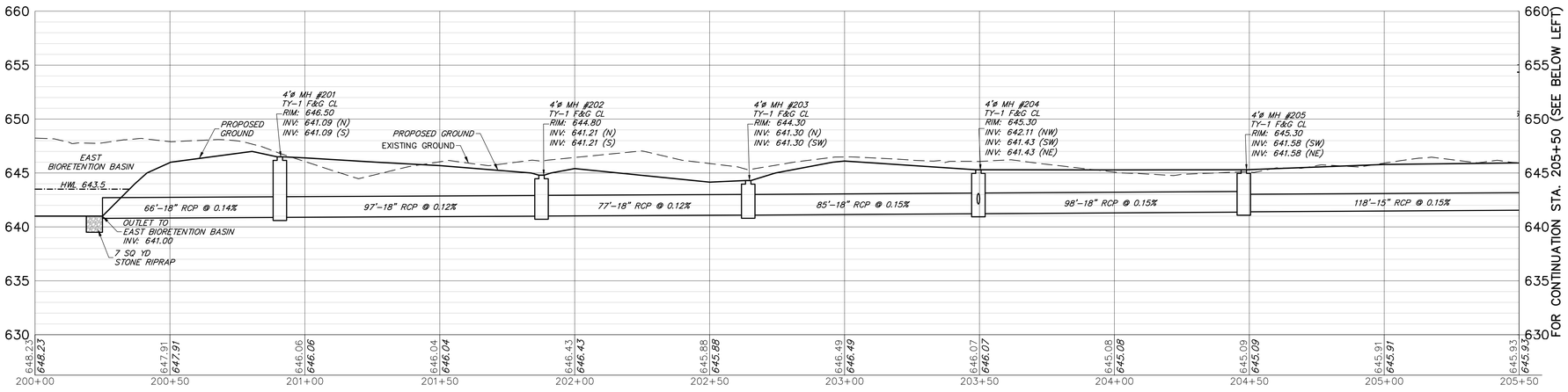
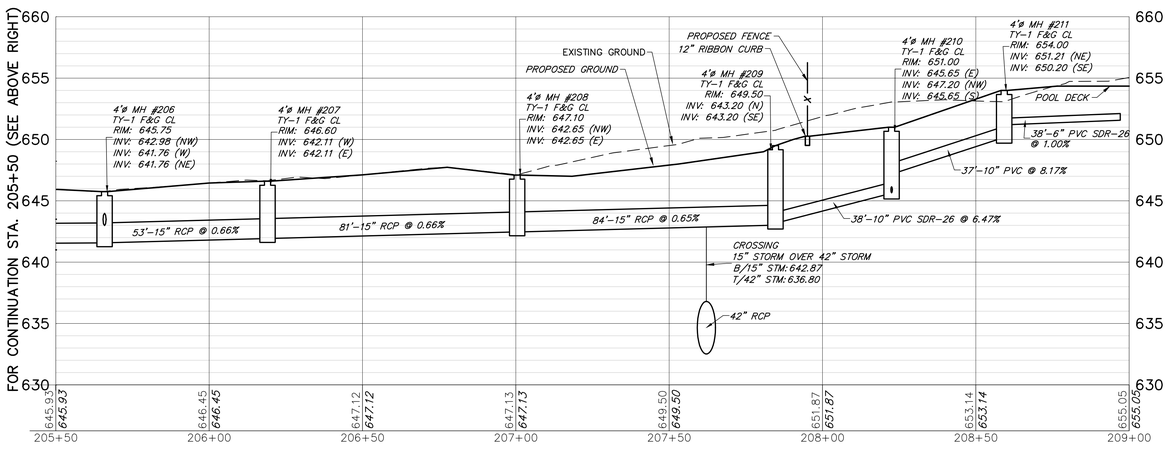
GRAPHIC SCALE
20 0 10 20
(IN FEET)
H. 1" = 20 ft. V. 1" = 5 ft.



STORM SEWER PROFILE FROM EAST BIORETENTION BASIN TO AQUATIC CENTER BATH HOUSE BUILDING



STORM SEWER PROFILE FROM EAST BIORETENTION BASIN TO AQUATIC CENTER



STORM SEWER PROFILE FROM EAST BIORETENTION BASIN TO AQUATIC CENTER

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Date	02-26-2026

UTILITY PROFILES

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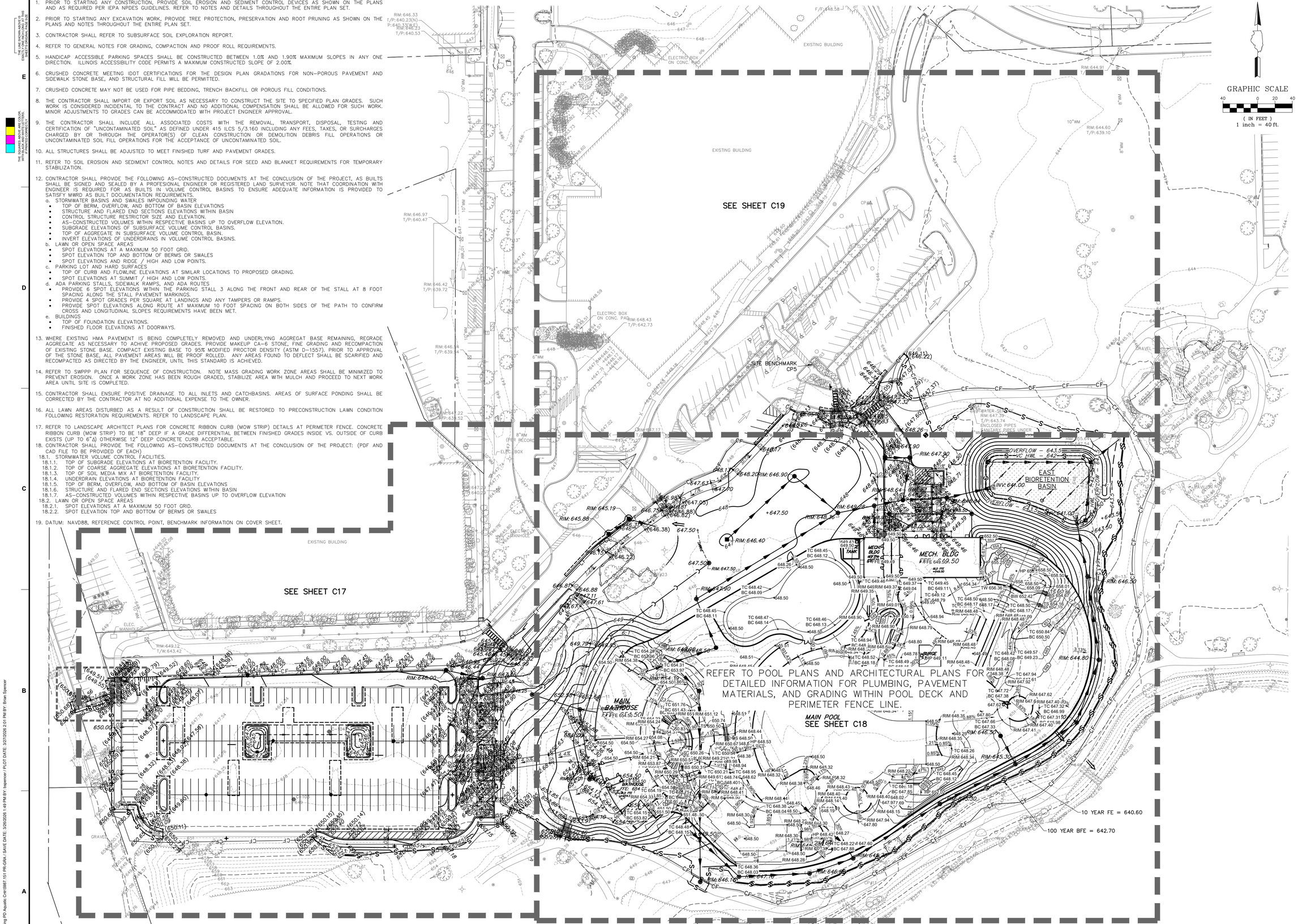
GRADING PLAN NOTES

1. PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
2. PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION AND ROOT PRUNING AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
3. CONTRACTOR SHALL REFER TO SUBSURFACE SOIL EXPLORATION REPORT.
4. REFER TO GENERAL NOTES FOR GRADING, COMPACTION AND PROOF ROLL REQUIREMENTS.
5. HANDICAP ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED BETWEEN 1.0% AND 1.90% MAXIMUM SLOPES IN ANY ONE DIRECTION. ILLINOIS ACCESSIBILITY CODE PERMITS A MAXIMUM CONSTRUCTED SLOPE OF 2.00%.
6. CRUSHED CONCRETE MEETING IDOT CERTIFICATIONS FOR THE DESIGN PLAN GRADATIONS FOR NON-POROUS PAVEMENT AND SIDEWALK STONE BASE, AND STRUCTURAL FILL WILL BE PERMITTED.
7. CRUSHED CONCRETE MAY NOT BE USED FOR PIPE BEDDING, TRENCH BACKFILL OR POROUS FILL CONDITIONS.
8. THE CONTRACTOR SHALL IMPORT OR EXPORT SOIL AS NECESSARY TO CONSTRUCT THE SITE TO SPECIFIED PLAN GRADES. SUCH WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. MINOR ADJUSTMENTS TO GRADES CAN BE ACCOMMODATED WITH PROJECT ENGINEER APPROVAL.
9. THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
10. ALL STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED TURF AND PAVEMENT GRADES.
11. REFER TO SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS FOR SEED AND BLANKET REQUIREMENTS FOR TEMPORARY STABILIZATION.
12. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT, AS BUILTS SHALL BE SIGNED AND SEALED BY A PROFESIONAL ENGINEER OR REGISTERED LAND SURVEYOR. NOTE THAT COORDINATION WITH ENGINEER IS REQUIRED FOR AS BUILTS IN VOLUME CONTROL BASINS TO ENSURE ADEQUATE INFORMATION IS PROVIDED TO SATISFY MWRD AS BUILT DOCUMENTATION REQUIREMENTS.
    a. STORMWATER BASINS AND SWALES IMPOUNDING WATER
        - TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
        - STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
        - CONTROL STRUCTURE RESTRICTOR SIZE AND ELEVATION.
        - AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION.
        - SUBGRADE ELEVATIONS OF SUBSURFACE VOLUME CONTROL BASINS.
        - TOP OF AGGREGATE IN SUBSURFACE VOLUME CONTROL BASIN.
        - INVERT ELEVATIONS OF UNDERDRAINS IN VOLUME CONTROL BASINS.
    b. LAWN OR OPEN SPACE AREAS
        - SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
        - SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES
        - SPOT ELEVATIONS AND RIDGE / HIGH AND LOW POINTS.
    c. PARKING LOT AND HARD SURFACES
        - TOP OF CURB AND FLOWLINE ELEVATIONS AT SIMILAR LOCATIONS TO PROPOSED GRADING.
        - SPOT ELEVATIONS AT SUMMIT / HIGH AND LOW POINTS.
    d. ADA PARKING STALLS, SIDEWALK RAMPS, AND ADA ROUTES
        - PROVIDE 6 SPOT ELEVATIONS WITHIN THE PARKING STALL 3 ALONG THE FRONT AND REAR OF THE STALL AT 8 FOOT SPACING ALONG THE STALL PAVEMENT MARKINGS.
        - PROVIDE 4 SPOT GRADES PER SQUARE AT LANDINGS AND ANY TAMPERS OR RAMPS.
        - PROVIDE SPOT ELEVATIONS ALONG ROUTE AT MAXIMUM 10 FOOT SPACING ON BOTH SIDES OF THE PATH TO CONFIRM CROSS AND LONGITUDINAL SLOPES REQUIREMENTS HAVE BEEN MET.
    e. BUILDINGS
        - TOP OF FOUNDATION ELEVATIONS.
        - FINISHED FLOOR ELEVATIONS AT DOORWAYS.
13. WHERE EXISTING HMA PAVEMENT IS BEING COMPLETELY REMOVED AND UNDERLYING AGGREGAT BASE REMAINING, REGRADE AGGREGATE AS NECESSARY TO ACHIVE PROPOSED GRADES. PROVIDE MAKEUP CA-6 STONE, FINE GRADING AND RECOMPACTION OF EXISTING STONE BASE. COMPACT EXISTING BASE TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). PRIOR TO APPROVAL OF THE STONE BASE, ALL PAVEMENT AREAS WILL BE PROOF ROLLED. ANY AREAS FOUND TO DEFLECT SHALL BE SCARIFIED AND RECOMPACTED AS DIRECTED BY THE ENGINEER, UNTIL THIS STANDARD IS ACHIEVED.
14. REFER TO SWPPP PLAN FOR SEQUENCE OF CONSTRUCTION. NOTE MASS GRADING WORK ZONE AREAS SHALL BE MINIMIZED TO PREVENT EROSION. ONCE A WORK ZONE HAS BEEN ROUGH GRADED, STABLIZE AREA WITH MULCH AND PROCEED TO NEXT WORK AREA UNTIL SITE IS COMPLETED.
15. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL INLETS AND CATCHBASINS. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
16. ALL LAWN AREAS DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO PRECONSTRUCTION LAWN CONDITION FOLLOWING RESTORATION REQUIREMENTS. REFER TO LANDSCAPE PLAN.
17. REFER TO LANDSCAPE ARCHITECT PLANS FOR CONCRETE RIBBON CURB (MOW STRIP) DETAILS AT PERIMETER FENCE. CONCRETE RIBBON CURB (MOW STRIP) TO BE 18" DEEP IF A GRADE DIFFERENTIAL BETWEEN FINISHED GRADES INSIDE VS. OUTSIDE OF CURB EXISTS (UP TO 6"Δ) OTHERWISE 12" DEEP CONCRETE CURB ACCEPTABLE.
18. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT: (PDF AND CAD FILE TO BE PROVIDED OF EACH)
    18.1. STORMWATER VOLUME CONTROL FACILITIES.
        18.1.1. TOP OF SUBGRADE ELEVATIONS AT BIORETENTION FACILITY.
        18.1.2. TOP OF COARSE AGGREGATE ELEVATIONS AT BIORETENTION FACILITY.
        18.1.3. TOP OF SOIL MEDIA MIX AT BIORETENTION FACILITY.
        18.1.4. UNDERDRAIN ELEVATIONS AT BIORETENTION FACILITY
        18.1.5. TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
        18.1.6. STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
        18.1.7. AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION
    18.2. LAWN OR OPEN SPACE AREAS
        18.2.1. SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
        18.2.2. SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES
19. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.



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GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

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Project Number	25070
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GRADING PLAN - OVERALL

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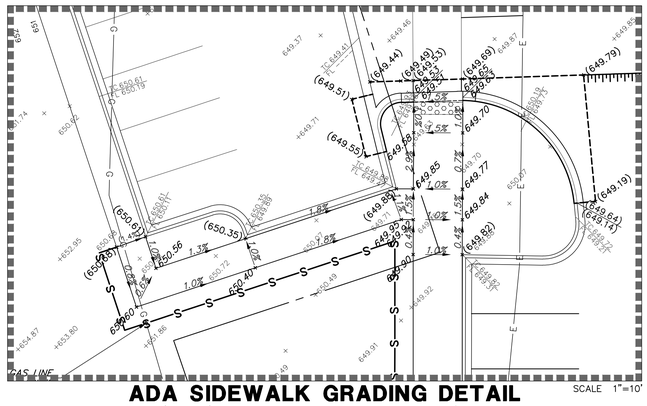
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOT SIZE, THIS IS A 1:1 PLOT

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AND NUMBERS

File Location: G:\5800\5687.151 Wheeling PD Aquatic Ctr\5687.151 PR-GRA / SAVE DATE: 3/26/2026 1:49 PM BY: hspencer / PLOT DATE: 3/27/2026 2:01 PM BY: Brian Spencer

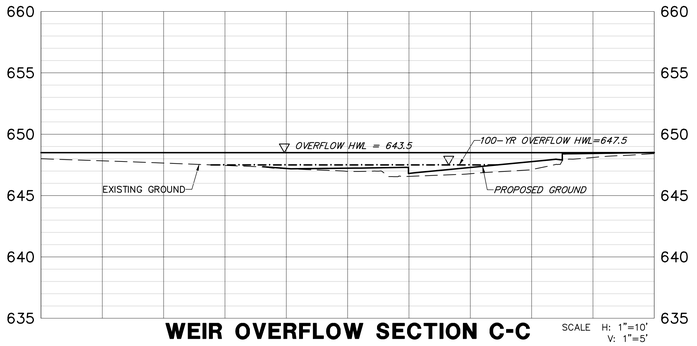
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN ORIGINALLY PRINTED



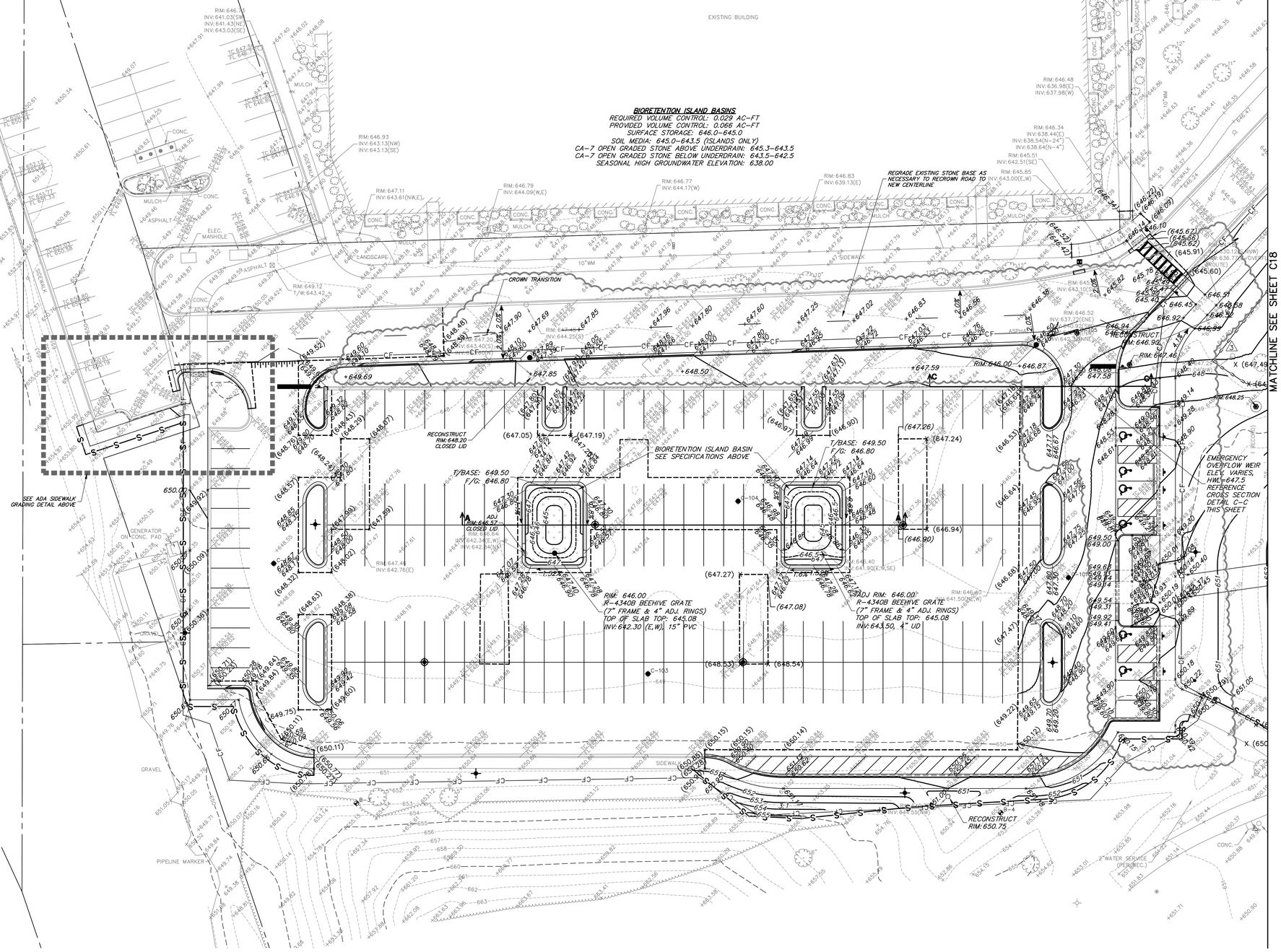
ADA SIDEWALK GRADING DETAIL

SCALE 1"=10'



WEIR OVERFLOW SECTION C-C

SCALE H: 1"=10'
V: 1"=5'



GRADING LEGEND

- 600.50 / 600.00 — TOP OF CURB FLOW LINE
- +670.30 — PROPOSED SPOT ELEVATION
- XXX — CONTOUR
- XXX.5 — 1/2 CONTOUR
- AD.I: ###.## SUMMIT — STRUCTURE ADJUSTMENT
- SUMMITS
- 2.5% — SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GRADING PLAN

C17

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MATCHLINE SEE SHEET C19

MATCHLINE SEE SHEET C17

REFER TO POOL PLANS AND ARCHITECTURAL PLANS FOR DETAILED INFORMATION FOR PLUMBING, PAVEMENT MATERIALS, AND GRADING WITHIN POOL DECK AND PERIMETER FENCE LINE.

EAST
BIORETENTION BASIN
REQUIRED VOLUME CONTROL = 0.173 AC-FT
PROVIDED VOLUME CONTROL = 0.248 AC-FT
SURFACE STORAGE: 642.0 641.0
SOIL MEDIA: 641.0 639.5
CA-7 OPEN GRADED STONE: 639.5 638.5
SEASONAL HIGH GROUNDWATER ELEVATION: 635.50

640 LF EMERGENCY OVERFLOW 17' WIDE, ELEV. 643.50 HWL (OVERFLOW TO BE ARMORED WITH NAG S150 APPROVED EQUIVALENT) REFERENCE CROSS SECTION DETAIL B-B THIS SHEET

MAIN BATHOUSE FFE: 654.50

MAIN BATHOUSE FFE: 654.00

MAIN POOL

REF ARCH FOR STAIRWALL, RAILING, AND FOUNDATION DETAIL

GRADING LEGEND

- TOP OF CURB / FLOW LINE
- PROPOSED SPOT ELEVATION
- XXX — CONTOUR
- XXX.5 — 1/2 CONTOUR
- ADJ. ### ## SUMMIT — STRUCTURE ADJUSTMENT
- SUMMITS
- 2.5% — SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

10 YEAR FE = 640.60
100 YEAR BFE = 642.70

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN ORIGINAL

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Revision Schedule

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GRADING PLAN

C18

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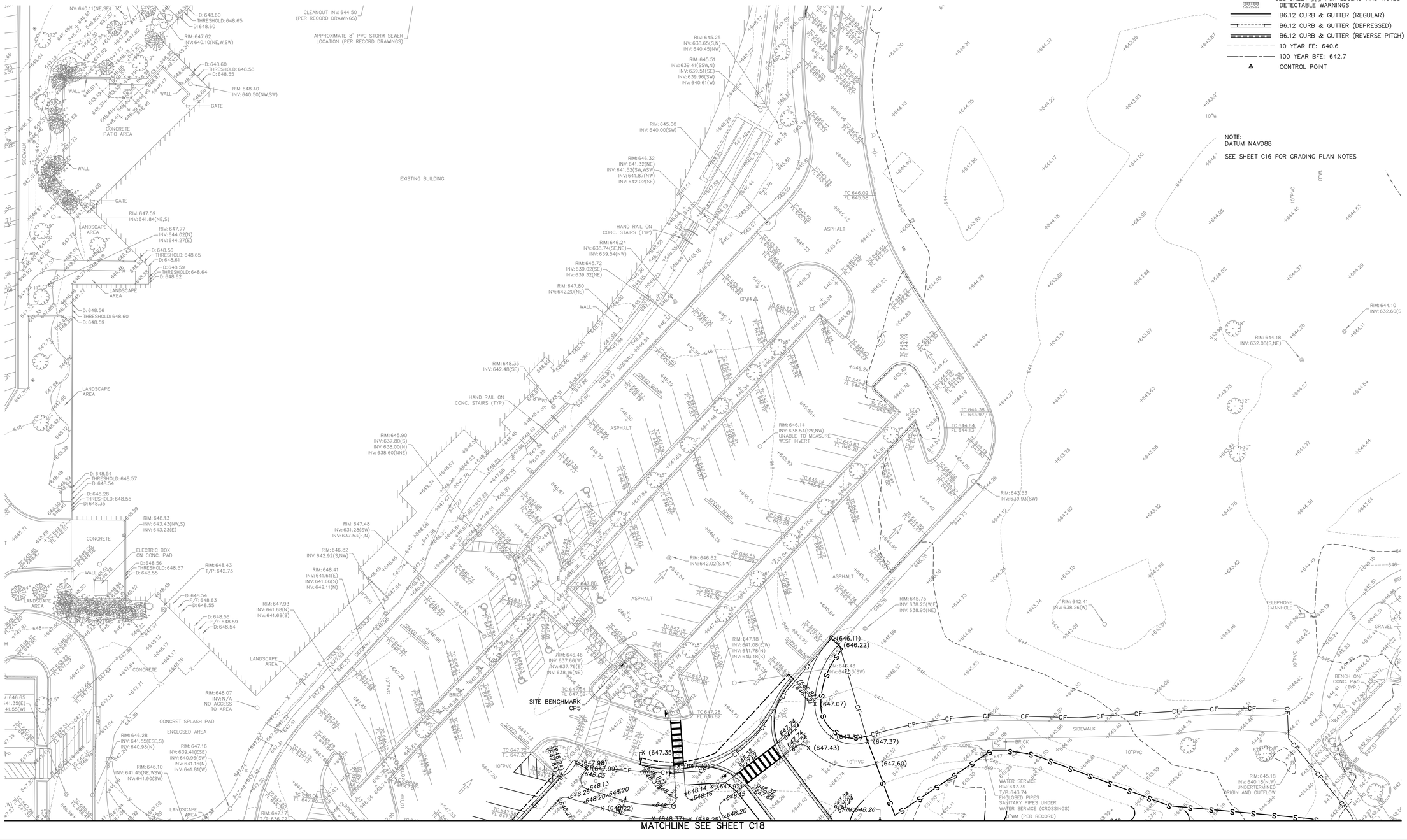

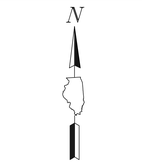

GRADING LEGEND

- 603.50 / 603.00 — TOP OF CURB FLOW LINE
- +670.30 — PROPOSED SPOT ELEVATION
- XXX — CONTOUR
- ADJ: ### ## — STRUCTURE ADJUSTMENT
- SUMMIT — SUMMITS
- 2.5% — SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

NOTE:
SEE SHEET ### FOR LEGEND AND NOTES

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

GRADING PLAN

C19

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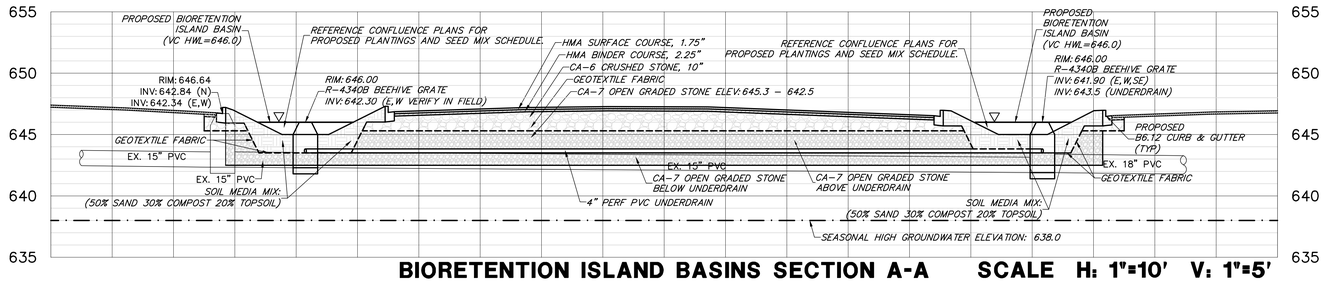
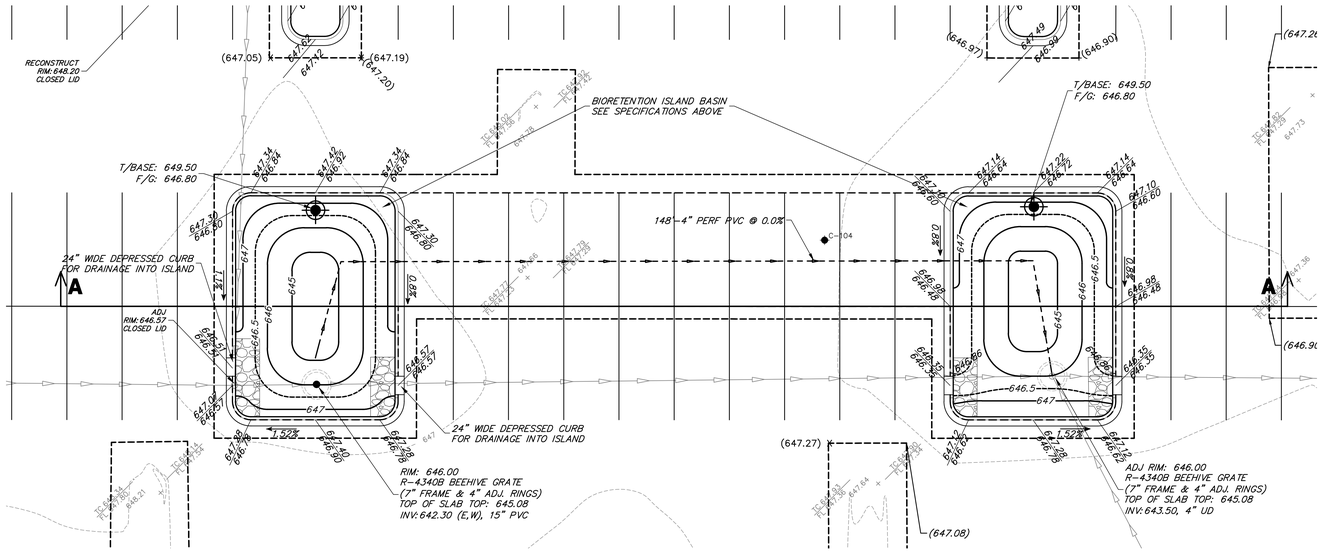
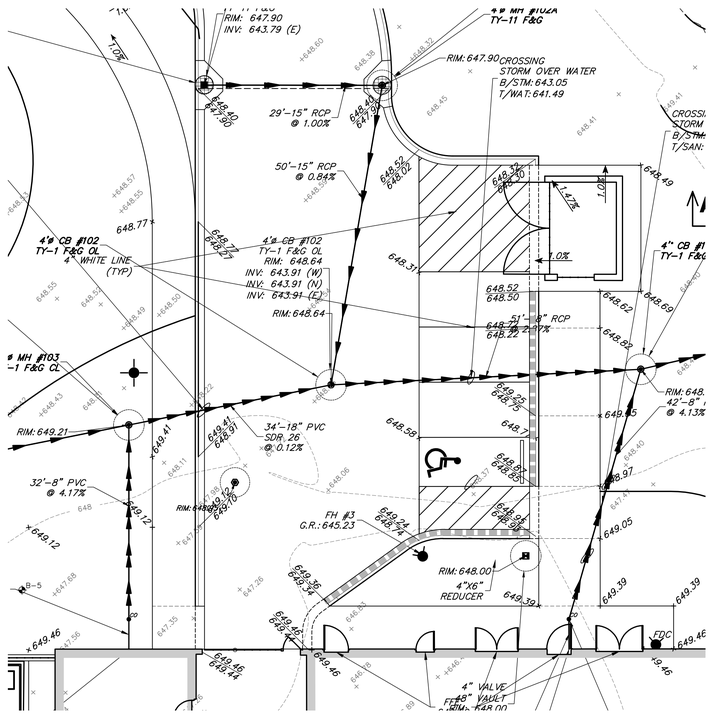


BIORETENTION ISLAND BASINS SECTION A-A SCALE H: 1"=10' V: 1"=5'



BIORETENTION ISLAND BASINS SCALE 1"=10'



MAINTENANCE BUILDING PARKING LOT SCALE 1"=10'

Stormwater Volume Control Volume Calculations - Bioretention Facilities and Stone Voids Underneath West Parking Lot

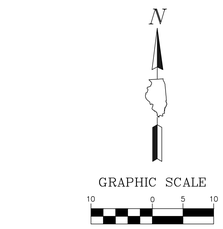
Volume Type	Elevations		Depth	Surface Area	Porosity	Storage Volume	Media Volume	
	High	Low	(feet)	(sf)		Formula	V_d (cf)	
Surface Storage	646.00	645.00	1.00	489	1.00	1.0 x V_d	489	
Soil Media (Above Invert)	645.00	643.50	1.50	917	0.25	0.5 x 0.25 x V_d	172	
Coarse Aggregate (Above Invert)	645.30	643.50	1.80	2,734	0.36	0.5 x 0.36 x V_d	886	
Coarse Aggregate (Below Invert)	643.50	642.50	1.00	3,651	0.36	0.36 x V_d	1,314	
						Total Provided	2,861	(CF)
							0.066	(Ac-Ft)

WEST VOLUME CONTROL REQUIRED: 0.029 (Ac-Ft)
WEST VOLUME CONTROL PROVIDED: 0.066 (Ac-Ft)

NOTES:
1. SEE SHEET C21 FOR ADDITIONAL BIOFILTRATION POND DETAILS.
2. CONTRACTOR REQUIRED TO MAINTAIN A DEWATERED CONDITION WITHIN ALL STORMWATER CONTROL BASINS UNTIL VEGETATION HAS BEEN FULLY ESTABLISHED

STORMWATER CONTROL FACILITY AS-BUILT REQUIREMENTS

1. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT: (PDF AND CAD FILE TO BE PROVIDED OF EACH)
   - 1.1. STORMWATER VOLUME CONTROL FACILITIES.
     - 1.1.1. TOP OF SUBGRADE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.2. TOP OF COARSE AGGREGATE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.3. TOP OF SOIL MEDIA MIX AT BIORETENTION FACILITY.
     - 1.1.4. UNDERDRAIN ELEVATIONS AT BIORETENTION FACILITY
     - 1.1.5. TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
     - 1.1.6. STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
     - 1.1.7. AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION
   - 1.2. LAWN OR OPEN SPACE AREAS
     - 1.2.1. SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
     - 1.2.2. SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES

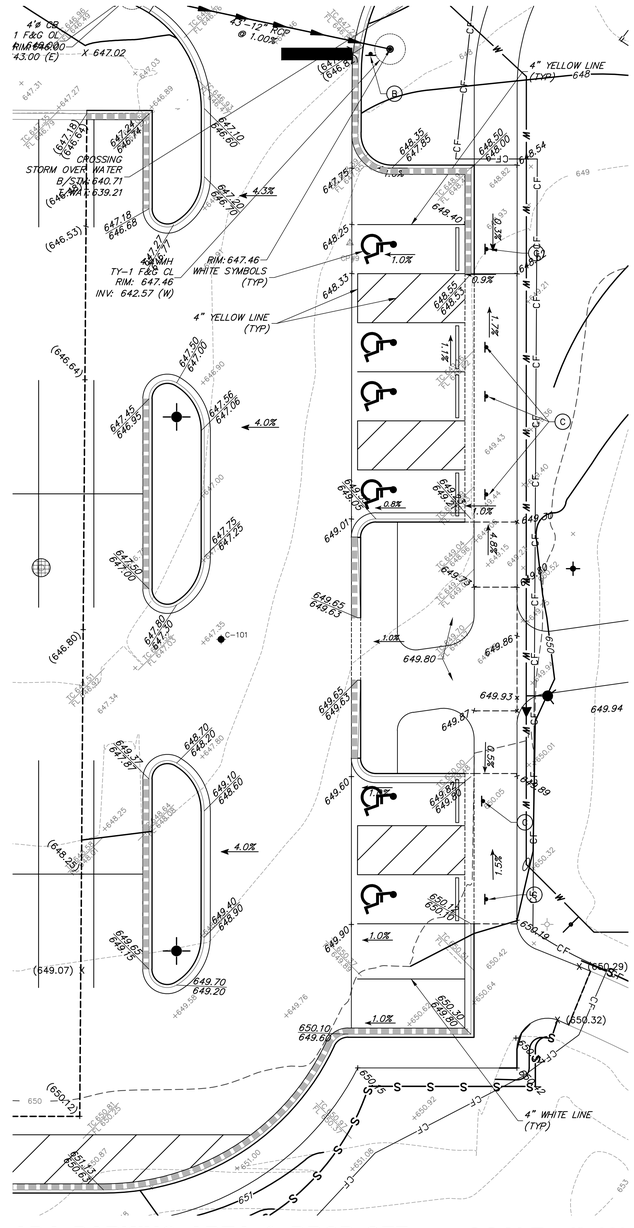


GRADING LEGEND

- TOP OF CURB / FLOW LINE
- PROPOSED SPOT ELEVATION
- XXX — CONTOUR
- ADJ: ###.## SUMMIT — STRUCTURE ADJUSTMENT
- SUMMITS
- 2.5% — SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES



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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

GRADING - ENLARGEMENT

C20

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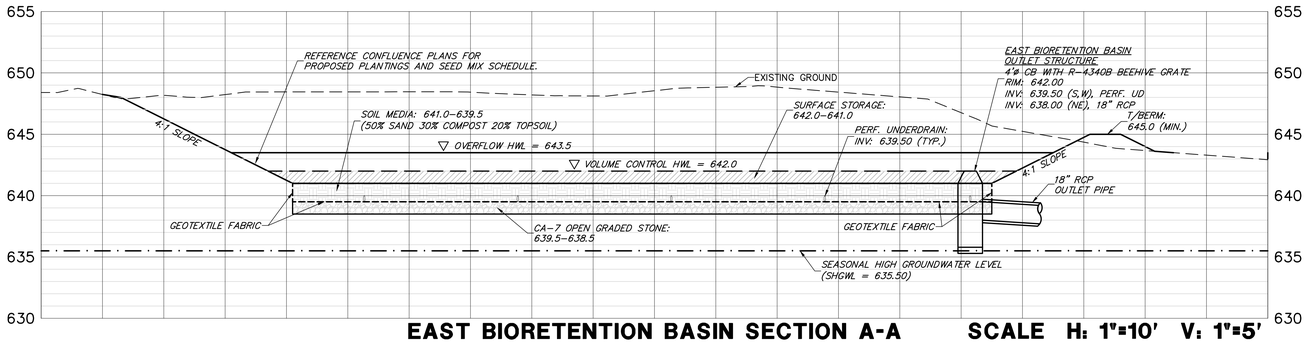


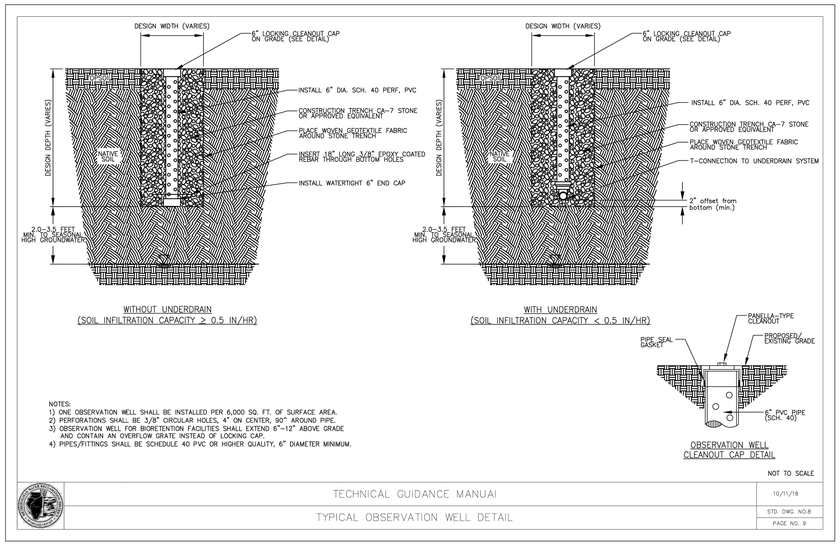
EAST BIORETENTION BASIN SECTION A-A SCALE H: 1"=10' V: 1"=5'

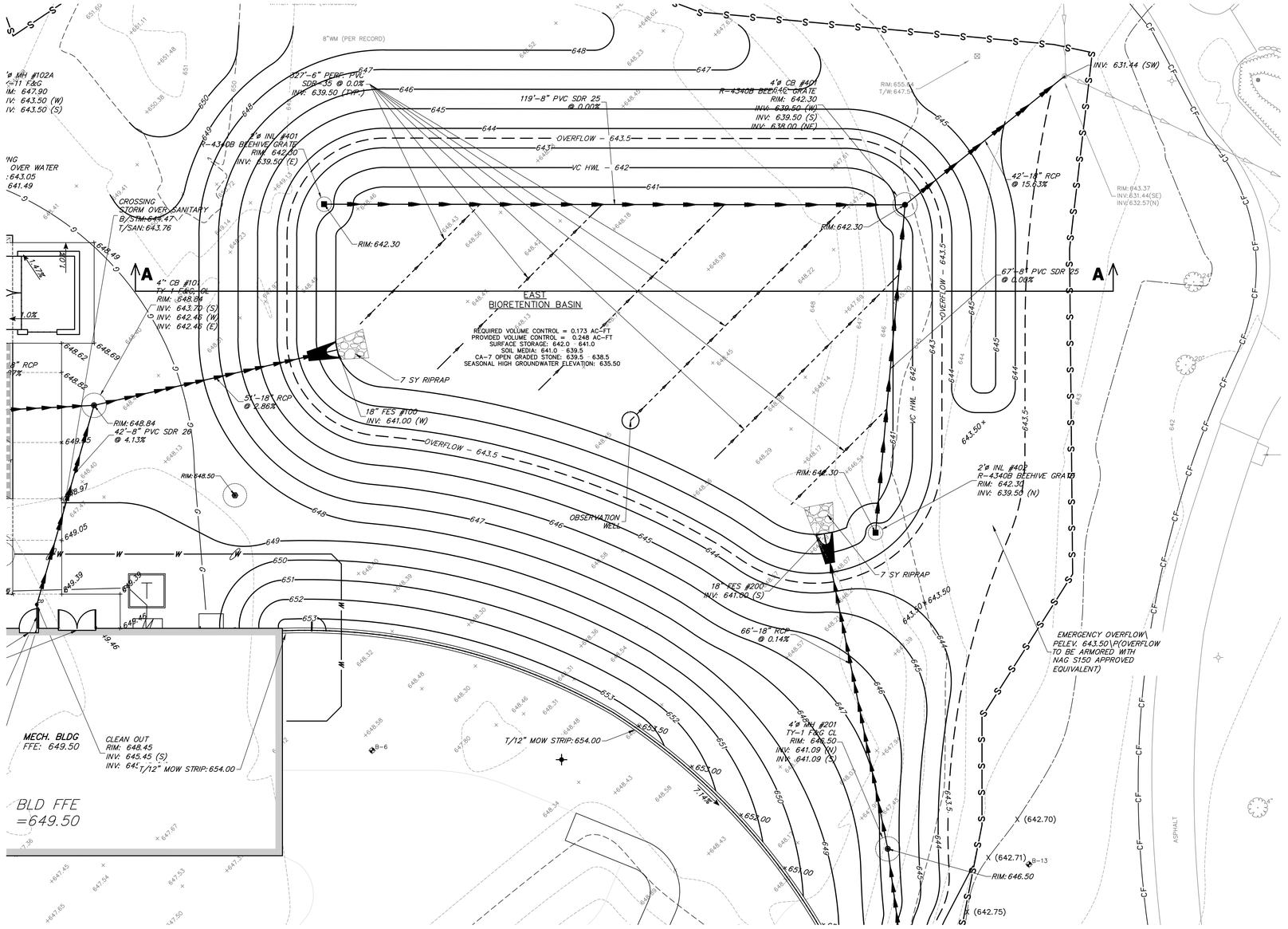
Stormwater Volume Control Volume Calculations - East Bioretention Facility

Volume Type	Elevations		Depth	Surface Area	Porosity	Storage Volume	Media Volume
	High	Low	(feet)	(sf)		Formula	V_d (cf)
Surface Storage	642.00	641.00	1.00	6,729	1.00	1.0 x V_a	6,729
Soil Media (Above Invert)	641.00	639.50	1.50	7,406	0.25	0.5 x 0.25 x V_d	1,389
Coarse Aggregate (Below Invert)	639.50	638.50	1.00	7,406	0.36	0.36 x V_d	2,666
						Total Provided	10,784 (CF)
							0.248 (Ac-Ft)

EAST VOLUME CONTROL REQUIRED: 0.173 (Ac-Ft)
EAST VOLUME CONTROL PROVIDED: 0.248 (Ac-Ft)

NOTE:
1. CONTRACTOR REQUIRED TO MAINTAIN A DEWATERED CONDITION WITHIN ALL STORMWATER CONTROL BASINS UNTIL VEGETATION HAS BEEN FULLY ESTABLISHED





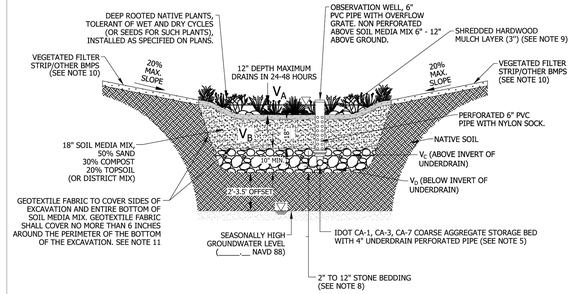
EAST BIORETENTION BASIN SCALE 1"=10'

STORMWATER CONTROL FACILITY AS-BUILT REQUIREMENTS

1. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT: (PDF AND CAD FILE TO BE PROVIDED OF EACH)
   - 1.1. STORMWATER VOLUME CONTROL FACILITIES.
     - 1.1.1. TOP OF SUBGRADE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.2. TOP OF COARSE AGGREGATE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.3. TOP OF SOIL MEDIA MIX AT BIORETENTION FACILITY.
     - 1.1.4. UNDERDRAIN ELEVATIONS AT BIORETENTION FACILITY
     - 1.1.5. TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
     - 1.1.6. STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
     - 1.1.7. AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION
   - 1.2. LAWN OR OPEN SPACE AREAS
     - 1.2.1. SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
     - 1.2.2. SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES

N

GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 inch = 10 ft.



BOTTOM OF THE FACILITY: ELEV. _____
SEASONALLY HIGH GROUNDWATER: ELEV. _____
SEPARATION: FEET _____

VOLUME TYPE	SURFACE AREA	DEPTH	POROSITY	STORAGE VOLUME	VOLUME PROVIDED
V_A : SURFACE STORAGE			1.00	1.00 X V_A	
V_B : SOIL MEDIA MIX			0.25	0.50 X 0.25 X V_B	
V_C : COARSE AGGREGATE (ABOVE INVERT)			0.36	0.50 X 0.36 X V_C	
V_D : COARSE AGGREGATE (BELOW INVERT)			0.36	0.36 X V_D	
				TOTAL	

NOTES:
1. THE PERIMETER OF THE VOLUME CONTROL FACILITY SHALL MAINTAIN THE MINIMUM HORIZONTAL SEPARATION DISTANCE OF: 10-FEET FROM FOUNDATIONS, UNLESS WATERPROOFED; 20-FEET FROM ROADWAY GRAVEL SHOULDER; AND 100-FEET FROM POTABLE WATER WELLS, SEPTIC TANKS/FIELDS, OR OTHER UNDERGROUND TANKS.
2. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED WITHIN THE VOLUME CONTROL FACILITY. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED BELOW THE FOOTPRINT OF THE VOLUME CONTROL FACILITY. WHEN LOCAL CONDITIONS PREVENT THE SEWER FROM BEING LOCATED OUTSIDE THE FOOTPRINT OF THE FACILITY THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN QUALITY STANDARDS, OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
3. AVOID INSTALLATION ON SLOPES GREATER THAN 3.00%. AVOID COMPACTING NATIVE SOILS. SCARIFY ANY COMPACTED SOIL.
4. GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IUM MATERIAL SPECIFICATION 592. FOR WOVEN: APPARENT OPENING SIZE OF 0.50 MM (TABLE 1, CLASS 1). FOR NON WOVEN: APPARENT OPENING SIZE OF 0.30 MM (TABLE 2, CLASS II).
5. STONE STORAGE OPTIONS ARE IDOT CA-1, CA-3, CA-7, DISTRICT VULCAN MIX, OR APPROVED ALTERNATE. NO RECYCLED MATERIALS.
6. MINIMUM DISTANCE OF 2 FEET (3.5 FEET IN COMBINED SEWER AREAS) BETWEEN BOTTOM OF BMP AND SEASONALLY HIGH GROUNDWATER LEVEL.
7. UNDERDRAINS ARE REQUIRED IN TYPICAL CLAYEY SOILS WHERE INFILTRATION RATES ARE LESS THAN 0.5 INCH/HOUR. NO MORE THAN 1 UNDERDRAIN EVERY 30 FEET ON CENTER. PROVIDE A SOIL REPORT DOCUMENTING NATIVE INFILTRATION RATE TO FOREGO UNDERDRAINS. NO FILTER FABRIC COVER/SOCK.
8. MINIMUM UNDERDRAIN BEDDING OF 2 INCHES, MAXIMUM OF 12 INCHES.
9. MULCH LAYER SHALL BE HARDWOOD MULCH OR OTHER NON-FLOATING GROUND COVER.
10. FOLLOW THE REQUIRED PRETREATMENT MEASURES LISTED ON THE VOLUME CONTROL PRETREATMENT MEASURES DETAIL.
11. CHOKING STONE MAY BE SUBSTITUTED FOR GEOTEXTILE FABRIC, PER APPROVAL BY THE ENGINEER.

NOT TO SCALE

TECHNICAL GUIDANCE MANUAL | 10/11/18
BIORETENTION FACILITY DETAIL | STD. DWG. NO.1 | PAGE NO.1

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

GRADING - ENLARGEMENT

C21

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File Location: G:\90\05\987.151 Wheeling PD Aquatic Cen\987.151 PR-GRA / SAVE DATE: 2/26/2026 10:25 PM BY: bspencer / PLOT DATE: 2/26/2026 10:25 PM BY: Brian Spencer

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SEDIMENTATION AND EROSION CONTROL NOTES

A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE SOIL REOSION AND SEDIMENT CONTROL PLANS, THE STANDARD DETAILS, THE PLAN NARRATIVE, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE (SWPPP) AND THE ILLINOIS GENERAL CONSTRUCTION PERMIT (ILR10) AND BECOME FAMILIAR WITH THEIR CONTENTS AND SIGN THE CERTIFICATION FORMS.

C. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, PROJECT ENGINEER OR OWNER.

D. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

E. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

F. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

G. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

H. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. WATER USE MUST NOT CAUSE ADDITIONAL EROSION.

I. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

J. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE (SWPPP), SHALL BE INITIATED AS SOON AS PRACTICABLE.

K. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT, WASHING SHALL BE IMPLEMENTED AND PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

L. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED BY THE END OF THE DAY.

M. ON-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

N. ERODIBLE STOCKPILES MUST BE ENCLOSED WITH SILT FENCE BY THE END OF THE WORK DAY.

O. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

P. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

Q. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES

R. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

S. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.

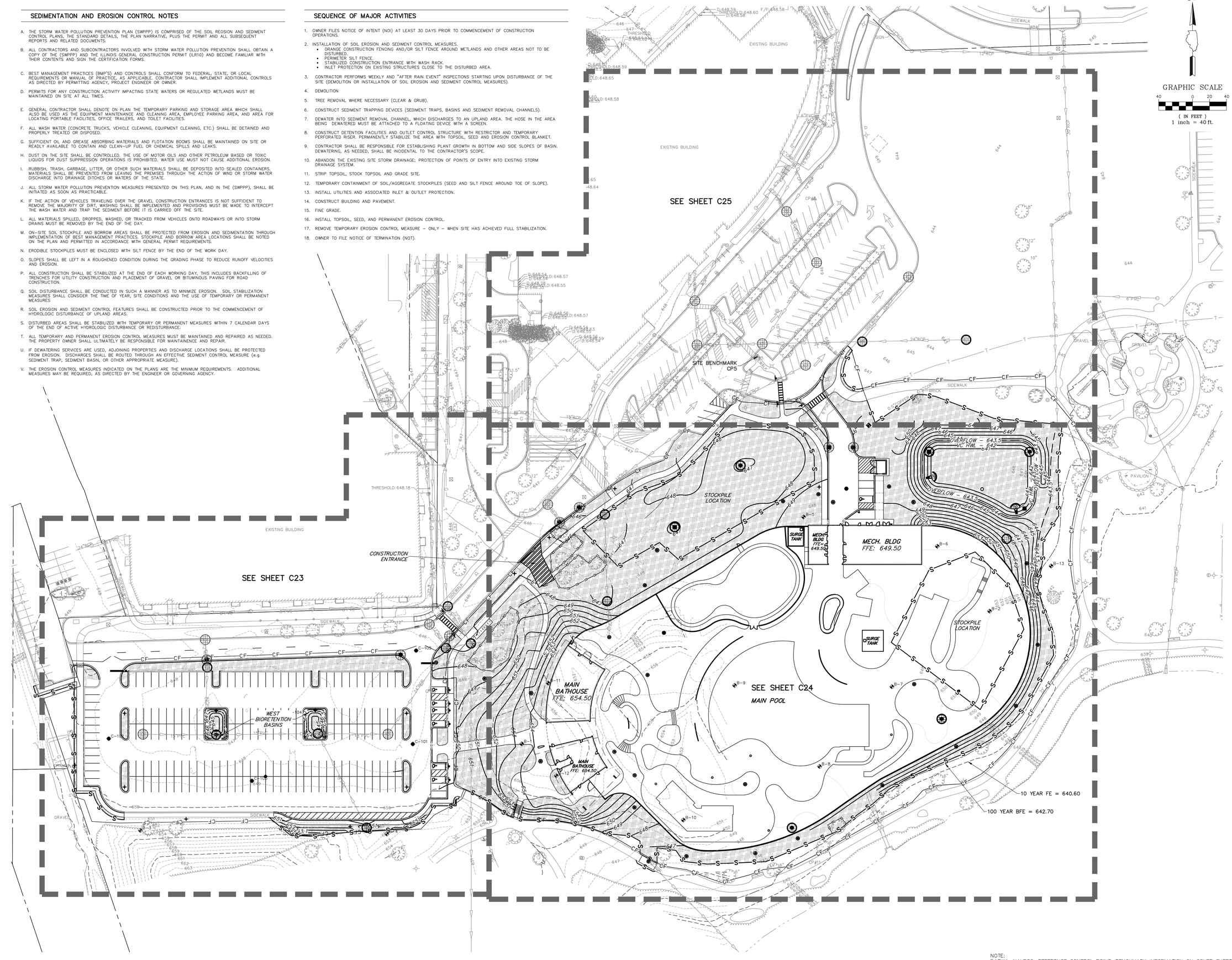
T. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL ULTIMATELY BE RESPONSIBLE FOR MAINTAINENCE AND REPAIR.

U. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).

V. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

SEQUENCE OF MAJOR ACTIVITIES

1. OWNER FILES NOTICE OF INTENT (NOI) AT LEAST 30 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
2. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES.
   - ORANGE CONSTRUCTION FENCING AND/OR SILT FENCE AROUND WETLANDS AND OTHER AREAS NOT TO BE DISTURBED.
   - PERIMETER SILT FENCE.
   - STABILIZED CONSTRUCTION ENTRANCE WITH WASH RACK.
   - INLET PROTECTION ON EXISTING STRUCTURES CLOSE TO THE DISTURBED AREA.
3. CONTRACTOR PERFORMS WEEKLY AND "AFTER RAIN EVENT" INSPECTIONS STARTING UPON DISTURBANCE OF THE SITE (DEMOLITION OR INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES).
4. DEMOLITION
5. TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB).
6. CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS AND SEDIMENT REMOVAL CHANNELS).
7. DEWATER INTO SEDIMENT REMOVAL CHANNEL, WHICH DISCHARGES TO AN UPLAND AREA. THE HOSE IN THE AREA BEING DEWATERED MUST BE ATTACHED TO A FLOATING DEVICE WITH A SCREEN.
8. CONSTRUCT DETENTION FACILITIES AND OUTLET CONTROL STRUCTURE WITH RESTRICTOR AND TEMPORARY PERFORATED RISER. PERMANENTLY STABILIZE THE AREA WITH TOPSOIL, SEED AND EROSION CONTROL BLANKET.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING PLANT GROWTH IN BOTTOM AND SIDE SLOPES OF BASIN. DEWATERING, AS NEEDED, SHALL BE INCIDENTAL TO THE CONTRACTOR'S SCOPE.
10. ABANDON THE EXISTING SITE STORM DRAINAGE; PROTECTION OF POINTS OF ENTRY INTO EXISTING STORM DRAINAGE SYSTEM.
11. STRIP TOPSOIL, STOCK TOPSOIL AND GRADE SITE.
12. TEMPORARY CONTAINMENT OF SOIL/AGGREGATE STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE).
13. INSTALL UTILITIES AND ASSOCIATED INLET & OUTLET PROTECTION.
14. CONSTRUCT BUILDING AND PAVEMENT.
15. FINE GRADE.
16. INSTALL TOPSOIL, SEED, AND PERMANENT EROSION CONTROL.
17. REMOVE TEMPORARY EROSION CONTROL MEASURE – ONLY – WHEN SITE HAS ACHIEVED FULL STABILIZATION.
18. OWNER TO FILE NOTICE OF TERMINATION (NOT).



NOTE:
DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.

N

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

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SOIL EROSION AND SEDIMENT CONTROL PLAN - OVERALL

C22

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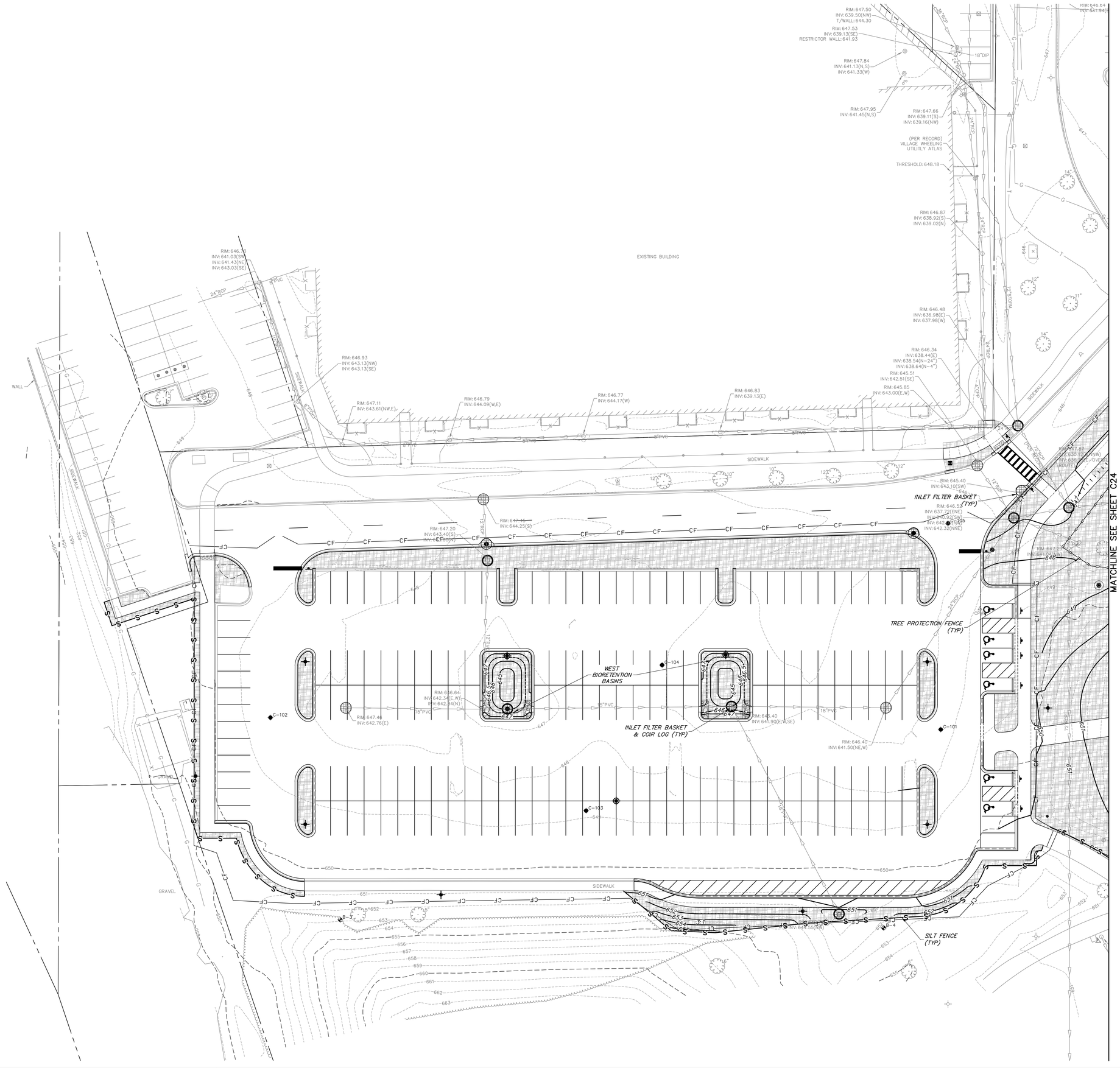

NOTE:
SEE SHEET C22 FOR SEDIMENTATION AND EROSION CONTROL NOTES

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

SESC LEGEND

- TOPSOIL FURNISH AND PLACE, 6" MIN. – EROSION CONTROL BLANKET NAG S75 (WHERE SLOPE IS 5:1 OR GREATER)
- STONE RIP-RAP, GRAD NO. RR3
- ROCK CONSTRUCTION ENTRANCE
- SILT FENCE INSTALLATION
- TREE PROTECTION FENCE
- STORM SEWER INLET PROTECTION: – INLET FILTER BASKET
- – INLET FILTER BASKET & COIR LOG
- COIR LOG
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

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SOIL EROSION AND SEDIMENT CONTROL PLAN

C23

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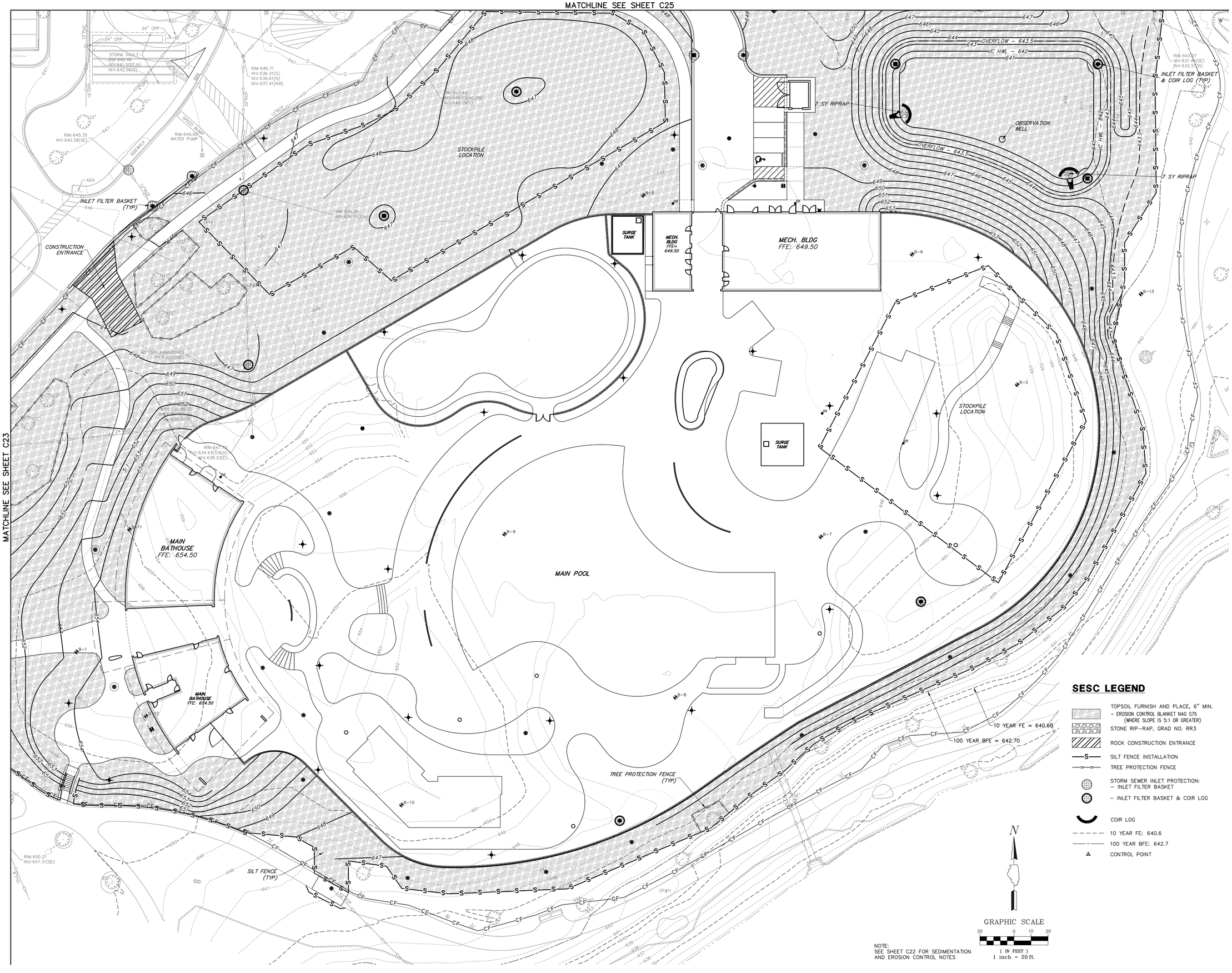
MATCHLINE SEE SHEET C25

MATCHLINE SEE SHEET C23



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- COIR LOG
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

10 YEAR FE = 640.60

100 YEAR BFE = 642.70

N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

NOTE:
SEE SHEET C22 FOR SEDIMENTATION AND EROSION CONTROL NOTES

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SOIL EROSION AND SEDIMENT CONTROL PLAN

C24

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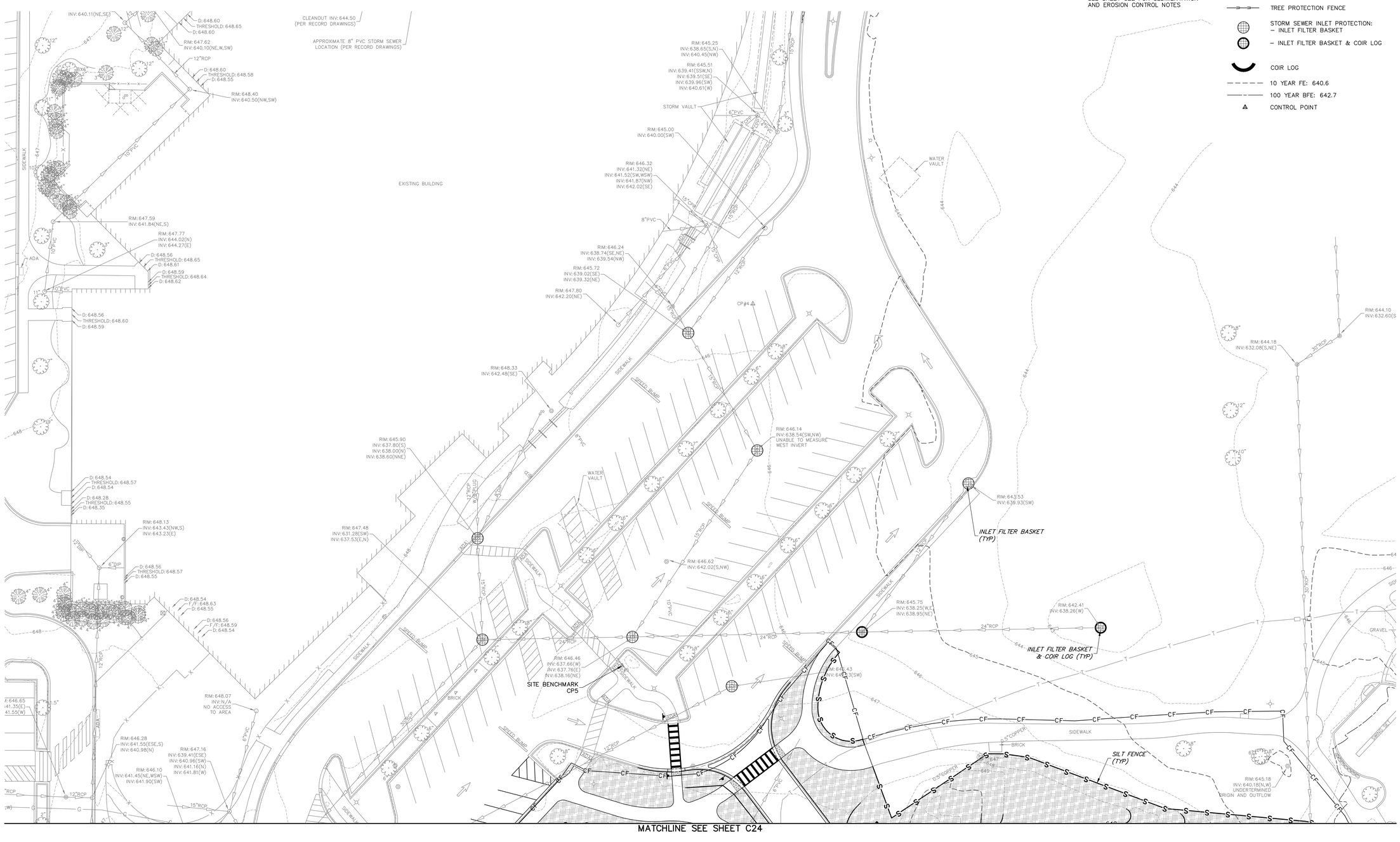

NOTE:
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(IN FEET)
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SOIL EROSION AND SEDIMENT CONTROL PLAN

C25

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PERMIT COVERAGE AND REQUIREMENTS

The management practices, controls and other provisions contained in this Storm Water Pollution Prevention Plan (SWPPP) are at least as protective as the requirements contained in the Illinois Environmental Protection Agency (IEPA) NPDES ILR10 permit, and the Illinois Urban Manual, both latest editions. Requirements specified in plans or permits for this project approved by local officials that are applicable to protecting surface water resources are, upon submittal of a NOI to be authorized to discharge under the ILR10 permit, incorporated by reference and are enforceable under the ILR10 permit even if they are not specifically included in the storm water pollution prevention plan. This provision does not apply to provisions of master plans, comprehensive plans, non–enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for this project.

CONTROL IMPLEMENTATION SCHEDULE

Perimeter controls of the site and stabilized construction entrance shall be installed prior to demolition, clearing and grubbing. Perimeter controls shall be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Existing storm sewer inlets that will function during the construction process should have the sediment control measures installed as indicated prior to land – disturbing activities, including demolition and site clearing. In addition, sediment control measures shall be installed in newly constructed inlets immediately after their installation is complete. Erosion control blanket may be used to stabilize the construction areas where the final grade has been reached but cannot be permanently stabilized due to planting season restrictions. Permanent controls, such as riprap, shall be installed at each storm sewer outfall structure prior to any storm water discharge. Temporary perimeter controls shall only be removed after final stabilization of those portions of the site upward of the perimeter control. Temporary drop–in sediment bags will be installed in all inlets to prevent infiltration of sediment–laden ground water into existing and proposed structures. Sediment bags shall remain in place until placement of base course in paved areas or until vegetation has taken hold. Care shall be taken when removing sediment bags to avoid release of sediment into the storm sewer.

POST CONSTRUCTION STORM WATER MANAGEMENT

Storm water management devices installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed may include storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). Velocity dissipation devices shall be located (i.e. riprap) at discharge locations and along the length of any outfall channel as necessary to provide a non–erosive velocity flow from the structure to the water course so that the natural physical and biological characteristics and functions are maintained and protected. Structural measures should be placed on upland soils to the degree attainable. The contractor is responsible for the installation and maintenance of storm water management measures until final stabilization of the site.

SOIL EROSION AND SEDIMENT CONTROLS

The appropriate soil erosion and sediment controls shall be implemented onsite and shall be modified to reflect the current phase of construction. All damaged or defective temporary sediment and erosion control measures must be repaired or replaced as soon as possible to maintain NPDES compliance.

Unless otherwise indicated, all vegetative and structural erosion and sediment control practices shall be installed according to the Standard Practice. The contractor shall be responsible for the installation of any additional erosion and sediment control measures necessary to prevent erosion and sedimentation as determined by the engineer, owner, or permitting authority.

1. Stabilization Practices
Areas that will not be paved or covered with non–erosive material shall be stabilized as indicated on the erosion control plan using procedures in substantial conformance with the Illinois Urban Manual. Stabilization practices may include: temporarily seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, staged or staggered development, and other appropriate measures.

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas must be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible but not later than 14 days from the initiation of stabilization work in an area. Exceptions to these time frames are specified below:

(i) Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
(ii) On areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method can be used. Temporary stabilization techniques and materials shall be described in the SWPPP.

2. Structural Practices
Structural practices will be utilized to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins.

Structural practices should be placed on upland soils to the degree practicable. The installation of these devices may be subject to Section 404 of the CWA.

(i) The following design requirements apply to sediment basins if such structural practices will be installed to reduce sediment concentrations in storm water discharges:
  a. When discharging from the sediment basin, utilize outlet structures that withdraw water from the surface in order to minimize the discharges.
  b. Prevent erosion of the sediment basin using stabilization controls (e.g., erosion control blankets), at the inlet and outlet using erosion controls and velocity dissipation devices.
  c. Sediment basins shall be designed to facilitate maintenance, including sediment removal from the basins, as necessary.

(ii) The following requirements apply to protecting storm drain inlets:
  a. Install inlet protection measures that removes sediment from discharges prior to entry into any storm drain inlet that carries stormwater flow from your site to a water of the U.S., provided you have authority to access the storm drain inlet.
  b. Clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there Is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same business day in which it is found or by the end of the following business day if removal by the same business day is not feasible.

OFF–SITE VEHICLE TRACKING

A stabilized pad of aggregate underlain with filter fabric shall be located at any point where traffic will be entering or leaving the construction site to or from a public right–of–way, street, alley, sidewalk, or parking area to help reduce vehicle tracking of sediments. Roads shall be swept as needed to reduce excess sediment, dirt or stone tracked from the site. Accumulated sediment and stone shall be removed from the stabilized construction entrance as needed. Water runoff from such washing area shall be periodically inspected and repaired as necessary throughout the life of the project. Vehicles hauling erodible material to and from the construction site should be covered with a tarp. The stabilized construction entrance shall be installed prior to any soil disturbance (including demolition) and removed prior to any paving.

DUST CONTROL

As requested, a water truck will be used to limit the amount of dust leaving the site. The following list of control measures may also be implemented on–site to limit the generation of dust as needed: Sprinkling/irrigation, Vegetative cover, Mulch, Spray–on soil treatments, Tillage, Stone.

WASTE MANAGEMENT

No solid materials, including building materials, shall be discharged to protected natural areas, a storm sewer system or Waters of the State (except as authorized by a Section 404 permit). All waste materials shall be collected and stored in approved receptacles. No wastes shall be placed in any location other than in the approved containers appropriate for the materials being discarded. There shall be no liquid wastes deposited into dumpsters or other containers which may leak. Receptacles with deficiencies shall be replaced as soon as possible and the appropriate clean–up procedure shall take place, if necessary. Construction waste material is not to be buried on site. Waste disposal should comply with all local, State and Federal regulations. Hazardous material shall not be stored on site. Any hazardous waste should be disposed of in the manner specified by local or State regulation or by the manufacturer.

MATERIAL STORAGE

Materials and or contaminants shall be stored in a manner that minimizes the potential to discharge into storm drains or watercourses. An on–site area shall be designated for material delivery and storage. All materials kept on–site shall be stored in their original containers with legible labels, and if possible, under a roof or other enclosure. Labels should be replaced if damaged or difficult to read. Bermed–off storage areas are an acceptable control measure to prevent contamination of storm water. MSD sheets shall be available for referencing cleanup procedures. Any release of chemicals/contaminants shall be immediately cleaned up and disposed of properly. Contractors shall immediately report all spills to the Primary Contact, who shall notify the appropriate agencies, if needed. To reduce the risks associated with hazardous materials on–site, hazardous products shall be kept in original containers unless they are not re–sealable. The original labels and MSD data shall be retained on–site at all times. Hazardous materials and all other materials on–site shall be stored in accordance with manufacturer's MSDS specifications. When disposing of hazardous materials, follow manufacturers' or local and State recommended methods on Local, State and Federal regulations.

DE–WATERING OPERATIONS

During de–watering/pumping operations, only uncontaminated water should be allowed to discharge to protected natural areas, Waters of the State or to a storm sewer system. Inlet hoses should be placed in a stabilized sump pit or floated at the surface of the water with a screen in order to limit the amount of sediment intake. Pumping operations may be discharged to a stabilized area that consists of an energy dissipating device (i.e. stone) on a stabilized surface, sediment filter bag on a stabilized surface or a sediment removal channel. Adequate erosion controls should be used during de–watering operations as necessary. Stabilized conveyance channels should be installed to direct water to the desired location as applicable. Additional erosion control and sediment control measures may be installed at the outlet area at the discretion of the Primary Contact or Engineer.

SANITARY FACILITIES

To the extent practicable, sanitary facilities shall be located at a minimum 8 feet behind the curb and gutter of the internal roads and be located in an area that does not drain to any protected natural area, Waters of the State or storm water structures. Sanitary facilities shall be anchored to the ground to prevent tipping over. Sanitary facilities located on impervious surfaces shall be placed on top of a secondary containment device or be surrounded by a control device (i.e. gravel–bag berm).

CONCRETE WASTE MANAGEMENT

Concrete mixer trucks shall only perform washouts in designated areas. Concrete waste or washout is not allowed in the street or allowed to reach a storm water drainage system or watercourse. A sign shall be posted at each location to identify the washout. Concrete washout areas should be located at least 50 feet from a storm water drainage inlets or watercourse. Concrete washout areas shall be located at least 10 feet behind the curb, if the washout area is adjacent to a paved road. A stabilized entrance as detailed on the erosion control plan shall be installed at each washout area. The washout areas shall be of sufficient volume to completely contain all liquid and concrete waste materials including enough capacity for anticipated levels of rainwater. The dried concrete waste material shall be picked up and disposed of properly when 75% of the capacity is reached. Hardened concrete can be properly recycled and reused on–site or hauled off–site to an appropriate facility.

SPILL PREVENTIONS

Discharges of hazardous substances or oil caused by a spill are not authorized by the ILR10 permit. If a spill occurs, notify the Primary Contact immediately. The construction site shall have the capacity to control, contain and remove spills if they occur. Spills shall be cleaned up immediately in accordance with MSD sheets and shall not be buried on–site or washed into storm sewer drainage inlets, drainageways or Waters of the State.

Spills in excess of Federal Reportable Quantities (as established under 40 CFR Parts 110, 117 or 302) shall be reported to the National Response Center by calling (800) 424–8802. MSDS often include information on federal Reportable Quantities for materials. Spills of toxic or hazardous materials shall be reported to the appropriate State or local government IEPA, regardless of size. When cleaning up a spill, the area shall be kept well ventilated and appropriate personal protective equipment shall be used to minimize injury from contact with a hazardous substance.

In addition to proper Waste Management, Concrete Waste Management, Concrete Cutting, Vehicle Storage and Maintenance, Material Storage and Sanitary Station protection, the following minimum practices shall be followed to reduce the risk of spills:
- Petroleum products shall be stored in tightly sealed and clearly labeled containers.
- All paint containers shall be tightly sealed and stored when not required for use. Excess paint shall be disposed of according to the manufacturer's instructions or State and local regulations and shall not be discharged to the storm sewer.
- Contractors shall follow manufacturers' recommendations for proper use and disposal of materials.

CONCRETE CUTTING

Concrete waste management should be implemented to contain and dispose of saw–cutting slurries. Concrete cutting shall not take place during or immediately after a rainfall event. Waste generated from concrete cutting should be cleaned up and disposed into the concrete washout facility described above.

VEHICLE STORAGE AND MAINTENENCE

When not in use, vehicles utilized in the development operations of the site shall be stored in a designated upland area away from any natural or created watercourse, pond, drainage–way or storm drain. Whenever possible, vehicle maintenance, fueling, and washing will occur off–site. If allowed on–site, vehicle maintenance (including both routine maintenance as well as on–site repairs) shall be made within the designated area to prevent the migration of mechanical fluids (oil, antifreeze, etc.) into watercourses, wetlands or storm drains. Drip pans or absorbent pads shall be used for all vehicle and equipment maintenance activities that involve grease, oil, solvents or other vehicle fluids. Construction vehicles shall be inspected frequently to identify any leaks. Leaks shall be repaired immediately, or the vehicle should be removed from the site. Dispose of all used oil, antifreeze, solvents and other automotive–related chemicals according to manufacturer MSDS instructions. Contractors shall immediately report spills to the Primary Contact.

NON–STORM WATER DISCHARGES

Authorized Discharges

The following non–storm water discharges may be authorized by this permit provided the non–storm water component of the discharge is in compliance with Part IV.D.6 (Non–Storm Water Discharges) of the ILR10 permit:
- Discharges from firefighting activities
- Water main flushing
- Fire hydrant flushing
- Watering for Dust Control
- Irrigation drainage for vegetative growth for seeding, etc.
- Uncontaminated groundwater

The pollution prevention measures described below will be implemented for non–storm water components of the discharge:
- The fire hydrant and water main should not be flushed directly on the exposed area or subgrade of the pavement. Hoses should be used to direct the flow onto a stabilized area.
- Erosion due to irrigation of seeding shall be minimized.

Prohibited Discharges

The following non–storm water discharges are prohibited by this permit:
- Concrete and wastewater from washout of concrete (unless managed by an appropriate control)
- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials, fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
- Soaps, solvents, detergents
- Toxic or hazardous substances from a spill or other release

DISCHARGES TO RECEIVING WATERS WITH AN APPROVED TMDL

Discharges to waters for which there is an approved Total Maximum Daily Load (TMDL) waste load allocation for sediment or a parameter that addresses sediment (total suspended solids, turbidity or siltation) are not eligible for coverage under the ILR10 permit unless the owner/operator develops and certifies a SWPPP that is consistent with allocations listed in the TMDL. To be eligible for coverage under the ILR10 permit, operators must incorporate into their SWPPP any conditions and/or Best Management Practices (BMPs) applicable to their discharges necessary for consistency with the TMDL within any timeframes established in the TMDL. If a specific numeric allocation has been established that would apply to the project's discharges, the operator must incorporate that allocation into its SWPPP and implement necessary steps to meet it.

INSPECTIONS

Qualified personnel (provided by the permittee or contractor– see Table 1.) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days, and within 24 hours of the end of a storm or by the end of the following business or work day that is 0.5 inches or greater.
- Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions (when ground and/or air temperatures are at or below 32°F). Weekly inspections will recommence when construction activities are conducted, or if there is a 0.5 inches or greater rain event, or a discharge due to snowmelt occurs.
- Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWPPP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- Based on the results of the inspection, the description of potential pollutant sources identified in the SWPPP and the pollution prevention control measures identified in the SWPPP shall be revised as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.
- A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the permit coverage expires or is terminated. All inspection reports shall be retained at the construction site. The reports shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit. Any flooding or other unsafe conditions that delay inspections shall be documented in the inspection report.
- The permittee (or qualified inspector) shall notify the appropriate Agency Field Operations Section office by email at epa.swnoncomp@illinois.gov, telephone or fax within 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention plan observed during any inspection conducted, or for violations of any condition of this permit.
- The permittee (or qualified inspector) shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the SWPPP observed during an inspection conducted, including those not required by the SWPPP. Submission shall be on forms provided by the IEPA and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact, which may have resulted from the noncompliance. Corrective actions must be undertaken immediately to address the identified non–compliance issue(s).
- All reports of non–compliance shall be signed by a responsible authority as defined in Part VI.G (Signatory Requirements).
- After the initial contact has been made with the appropriate Agency Field Operations Section Office, all reports of noncompliance shall be mailed to the IEPA at the following address:

  Illinois Environmental Protection Agency
  Division of Water Pollution Control
  Compliance Assurance Section
  1021 North Grand Avenue East
  Post Office Box 19276
  Springfield, Illinois 62794–9276

CORRECTIVE ACTIONS

The Contractor must take corrective actions to address any of the following conditions identified on site:
(i) A stormwater control needs repair or replacement
(ii) A stormwater control necessary to comply with the requirements of this permit was never installed or was installed incorrectly.
(iii) Site discharges are causing an exceedance of applicable water quality standards.
(iv) A prohibited discharge has occurred.

Corrective Actions shall be completed as soon as possible and documented within seven (7) days in an Inspection Report or report of noncompliance. If it is infeasible to complete the installation or repair within 7 calendar days, you must document in your records why it is infeasible to complete the installation or repair within the 7–day timeframe and document your schedule for installing the stormwater control(s) and making it operational as soon as feasible after the 7–day timeframe.

RECORDKEEPING

The permittee shall retain copies of the SWPPP and all reports and notices required by the ILR10 permit, and records of all data used to complete the Notice of Intent to be covered by the ILR10 permit, for a period of at least three years from the date that the permit coverage expires or is terminated unless extended by request of the IEPA. In addition, the contractor shall retain a copy of the SWPPP required by the ILR10 permit at the construction site from the date of project initiation to the date of final stabilization.

LOG OF MAJOR GRADING AND CONSTRUCTION ACTIVITIES

A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in this SWPPP.

KEEPING PLANS CURRENT

The permittee or contractor shall amend the SWPPP whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for discharge of pollutants to Waters of the State and which has not otherwise been addressed in the SWPPP or if the SWPPP proves to be ineffective in eliminating or significantly minimizing pollutants, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the SWPPP by signing the contractor's certification statement.The SWPPP and site map must be modified within 7 days for any changes to construction plans, stormwater controls or other activities at the site that are no longer accurately reflected in the SWPPP. Any revisions of the documents for the SWPPP shall be kept on site at all times.

FINAL STABILIZATION

Final Stabilization has occurred when all soil disturbing activities at the site have been completed, and either of the two following conditions have been met:

(i) A uniform (e.g. evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
(ii) Equivalent permanent stabilization measures (such as the use of riprap, gabions or geotextiles) have been employed.

For individual lots in residential construction, final stabilization has occurred when either:

(i) The homebuilder has completed final stabilization as specified above, or
(ii) The homebuilder has established temporary stabilization including perimeter controls for individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need to, and the benefits of, final stabilization.

When the site has been finally stabilized and all storm water discharges from construction sites that are authorized by the ILR10 permit are eliminated, the permittee of the facility must submit a completed Notice of Termination that is signed in accordance with Part VI.G (Signatory Requirements) of the ILR10 permit. Elimination of storm water discharges associated with industrial activity means that all disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated.

BMP Operation and Maintenance

Silt Fence

Silt fences shall be removed when they have served their usefulness, but not before the upslope areas have been permanently stabilized.

Silt fences shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.

Should the fabric decompose or become ineffective prior to the end of the expected usable life and the fence still is necessary, the fabric or the entire system shall be replaced promptly.

Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one–half the height of the silt fence.

Any sediment deposits remaining in place after the silt fence is no longer required shall be dressed to conform to the existing grade, a seedbed prepared, and the site vegetated.

Stabilized Construction Entrance

The entrance shall be maintained in a condition that will prevent tracking of sediment onto public right–of–ways or streets. This may require periodic top dressing with additional aggregate. All sediment spilled, dropped, or washed onto public right–of–ways must be removed immediately. Periodic inspection and needed maintenance shall be provided after each rain.

Inlet Protection

Each inlet protection practice or device shall be inspected after every runoff event. Accumulated sediment shall be removed per manufacturers' directions but not less than when the capacity for sediment storage has been reduced by half. Sediment that has been removed shall be placed such that it will not reenter the storm drain system.

Repairs or replacement of inlet protection devices shall be made immediately.

For devices to be kept in place in the winter season, areas shall be cleared of any sediment accumulation and prepared or protected for snow removal operations.

Inlet protection practices shall be removed upon job completion.

Erosion Control Blanket

Inspect all erosion control blankets periodically and after rainstorms to check for damage due to water running under the blanket or if the blankets that have been displaced by wind. Any areas where water seeped under the blanket, more staples may be needed per given area or more frequent anchoring trenches installed with better compaction. If significant erosion has occurred under the blanket, regrading and reseeding may also be necessary. Any erosion control blankets that have been displaced will need to be re–installed and re–stapled. This may indicate that the wrong type of blanket was chosen. One may need to revisit the site characteristics and then select a different type of erosion control blanket or chose a different practice.

Temporary Concrete Washout Facility

Temporary concrete washout facilities shall be maintained to provide adequate holding capacity with a minimum freeboard of 100 mm (4 in.) for above grade facilities and 300 mm (12 in.) for below grade facilities. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete or slurry and returning the facilities to a functional condition.

Existing facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is two–thirds full.

Temporary concrete washout facilities shall be inspected for damage (e.g. tears in plastic liner, missing sand bags, etc.). Damaged facilities shall be repaired promptly.

Portable Sediment Tank

The tank shall be cleaned out when one–third of the storage volume is filled with sediment. All sediment collected in the tank shall be disposed of in an approved sediment trapping device (i.e. temporary sediment trap) or on the construction site or as approved by the engineer/inspector.

Temporary Sediment Trap

Inspect temporary sediment traps after each period of significant rainfall. Remove sediment and restore the trap to its original dimensions when the sediment has accumulated to one–half the design depth of the permanent pool. Place the sediment that is removed in the designated disposal area and replace the contaminated part of the gravel facing.

Check the structure for damage from erosion or piping. Periodically check the depth of the spillway to ensure it is a minimum of 1.5 feet below the low point of the embankment to slightly above the design grade. Any rip rap displaced from the spillway must be replaced immediately.

After all sediment–producing areas have been permanently stabilized, remove the structure and all unstable sediment. Smooth the area to blend with the adjoining areas and stabilize properly.

Ditch Check (Manufactured)

Manufactured ditch check shall be inspected every 7 days and after each 1/2" rainfall or snow equivalent.

Sediment shall be removed from the upstream of the ditch check when sediment has reached one–half the height of the ditch check. Inspect any fabric for tears or dislodging after the sediment is removed and repair or replace immediately. Additional requirements may apply per manufacturer specifications or permit requirements.

Products shall be maintained in same condition as when installed. Rolled erosion control ditch checks must be replaced whenever tears, splits, unraveling or compressed straw or excelsior is apparent.

Any fabric used as a base or apron underneath the plastic permeable or synthetic porous runoff control structure ditch checks that is torn or dislodged must be replaced or repaired.

Remove debris (litter, cornstalks) when observed.

Water or sediment going around the ditch check indicates incorrect installation or maintenance is required. The flow of water over the center of the ditch check or through the device must be reestablished. The manufactured ditch check may need length up the side slope, sediment removed from pores, or the flow velocities are too great for the type of ditch check.

Manufactured ditch checks are not designed to be a part are not designed to be part of the permanent storm water management system. Their material components are not conducive to being incorporated into soils once they have reached their useful life.

Remove manufactured ditch checks once all upslope areas are stabilized, and swale or ditch stabilization is complete. The biodegradable form of plastic permeable ditch checks can be left in place on top of the permanent stabilization such as blankets to provide velocity reductions, provided they are not a hazard to mowing operations. Vegetated ditch checks may remain in place within the ditch or swale if permanent vegetation is desired such as in the case of establishing a vegetated swale.

Rock Check Dam

On active construction sites, the rock check dams shall be inspected at least once every 7 days and within 24 hours of a rainfall of 0.5 inches or more. If any erosion has taken place around the or below the rock check dam or if rocks have been dislodged, repairs shall be made to prevent further damage. Sediment shall be removed once has accumulated to one–half the height of the rock check dam. The center of the rock check dam shall also be inspected periodically to ensure that the center of the dam is lower than the sides.

Unless they will be incorporated into permanent stormwater management control, rock check dams must be removed when useful life has been completed. In temporary ditches and swales, rock check dams should be removed, and the ditch filled in when they are no longer needed. In permanent structures rock check dams should be removed when the grass has matured sufficiently to protect the ditch or swale. The area beneath the rock check dams should be seeded and mulched immediately after they are removed.

For rock check dams that are made a part of stormwater management control, regular inspections should be made to see if any erosion has occurred around or below the dam and if any rock has been dislodged. Immediately make all needed repairs to prevent further damage. If sediment trapping is to be a continuing function of the rock check dam, the sediment shall be removed when it has accumulated to one–half the depth of the rock check dam.

Rock Outlet Protection

Inspect outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs.

Dewatering

The frequency of inspections shall depend on the dewatering method, amount of discharge, potential damage, and quality of the receiving bodies of water.

1. Inspections shall be conducted to ensure proper operation and compliance with any permits or water standards.
2. Accumulated sediment shall be removed from the flow area and temporary diversions shall be repaired, as required.
3. Outlet areas shall be checked, and repairs shall be made in a timely manner, as needed.
4. Pump outlets shall be inspected for erosion, and sumps shall be inspected for accumulated sediment.
5. Dewatering bags shall be stopped and replaced when half full of sediment or when the pump discharge has reduced to an impractical rate.
6. If the receiving area is showing any signs of cloudy water, erosion, or sediment accumulation, discharges shall be stopped immediately once safety and property damage concerns have been addressed.
7. Sediment shall be disposed in accordance with all applicable laws and regulations.

Discharges from Dewatering Activities

Discharges from dewatering activities, including from dewatering of trenches and excavations, are allowable if managed by appropriate controls:
- Dewatering discharges shall be treated or controlled to minimize discharge of pollutants.
- The discharge shall not include visible floating solids or foam.
- An oil–water separator (or suitable filtration device) shall be used to treat oil, grease, or other similar products if dewatering water is found to contain these materials.
- To the extent feasible, use vegetated, upland areas of the site to infiltrate dewatering water before discharging.
- Backwash water (water used to clean any filters used as part of stormwater treatment) must be properly treated or hauled off site for disposal.
- Dewatering treatment devices shall be properly maintained as described above.

Natural Buffers

For any stormwater discharges from construction activities within 50 feet of a Waters of the United States, except for activities for water–dependent structures authorized by a Section 404 permit, the permittee shall:
(i) Provide a 50–foot undisturbed natural buffer between the construction activity and the Waters of the United States; or
(ii) Provide additional erosion and sediment controls within that area.

TABLE 1	
ACTION	RESPONSIBLE PARTY
Provide qualified personnel for weekly and 0.5 inch rain event inspections	Contractor ☐ Permittee/Owner ☐
Install and maintain erosion control practices and address Corrective Actions	Contractor ☐

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

STORMWATER POLLUTION PREVENTION PLAN NOTES

C26

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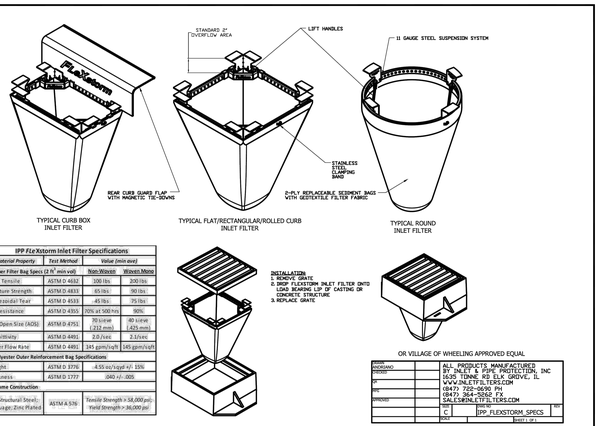
IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS SHEET IS CORRECTLY SCALED

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN ORDER: YELLOW, MAGENTA, CYAN



IPP FLEXstorm Inlet Filter Specifications

Material Property	Test Method	Value (min ave)	
> Inner Filter Bag Spec (2 ft² min roll)		Non-Woven	Woven Mono
Grab Tensile	ASTM D 4632	100 lbs	200 lbs
Puncture Strength	ASTM D 4833	65 lbs	90 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 Hrs	90%
Appl Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0 /sec	2.5/sec
Water Flow Rate	ASTM D 4491	145 gpm/sq ft	145 gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.50 oz/sqyd +/- 15%	
Thickness	ASTM D 1777	.040 +/-.005	
> Frame Construction			
AISI Structural Steel, 11 Gauge, Zinc Plated	ASTM A 536	Tensile Strength = 58,000 psi; Yield Strength = 36,000 psi	

INSTALLATION
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

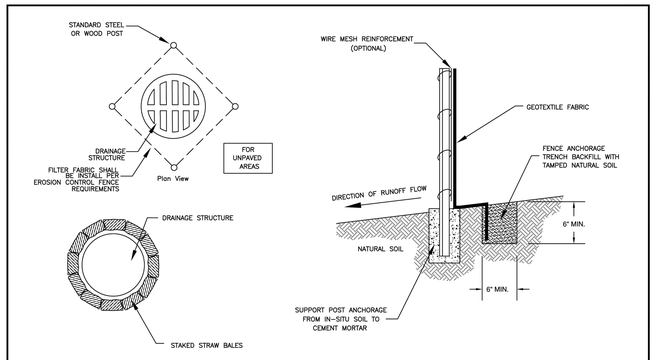
OR VILLAGE OF WHEELING APPROVED EQUAL

CHECKED		ALL PRODUCTS MANUFACTURED BY: INLET & PIPE PROTECTION, INC
DRAWN		6635 TOWNE RD ELK GROVE, IL
JP		WWW.INLETPROTECTION.COM
REVISIONS		(847) 722-0090 PH
DATE		(847) 364-5062 FX
DRAWING		SALES@INLETFILTERS.COM
SCALE:	NTS	SHEET NO.
JOB #		IPP_FLEXSTORM_SPECS
		SHEET 1 OF 1

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

INLET AND FILTER PROTECTION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	01-30-03 AUTOCAD FILE	ERO-1
T:\ENGINEERING\STANDARDS	C.J.C.	11-27-07 AUTOCAD FILE	



STRAW BALE INSTALLATION FOR EROSION CONTROL AROUND A DRAINAGE STRUCTURE

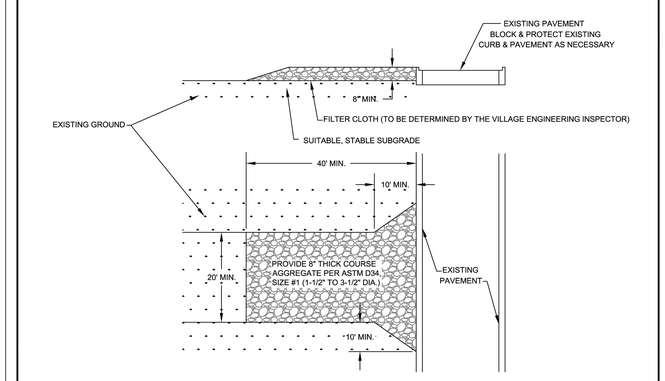
Inlet Protection Details

NOTE: DEPENDING UPON CONFIGURATION, ATTACH FABRIC TO WIRE MESH W/HOG RINGS, STEEL POSTS W/TIE WIRES, WOOD POSTS W/NAILS.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

SILT FENCE INSTALLATION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	11-07-01 PER COMMENTS	ERO-2
T:\ENGINEERING\STANDARDS	C.J.C.	01-29-08 AUTOCAD FILE	
	K.A.G.	12-20-18 INLET PROTECTION	



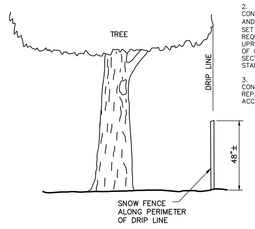
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

TEMPORARY CONSTRUCTION ENTRANCE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	P.F.	06-16-99	ERO-4
FILE LOCATION	C.J.C.	10-01-08 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS			

NOTES:

1. EXISTING TREES TO BE PROTECTED SHALL HAVE SNOW FENCE INSTALLED AT THE DRIP LINE OF THE TREE TO PREVENT THE STOCKPILING OF EXCAVATED OR CONSTRUCTION MATERIALS UNDER THE TREE, AND PROHIBIT VEHICULAR TRAFFIC OR EXCESSIVE FOOT TRAFFIC WITHIN THE DRIP LINE.
2. SNOW FENCE SHALL BE WEBBED HDPE CONSTRUCTION FENCING, COLORED ORANGE AND SUPPORTED WITH STEEL "TEE" POSTS SET AT MAX. 15' INTERVALS, OR AS REQUIRED TO MAINTAIN THE FENCE IN AN UPRIGHT POSITION THROUGHOUT THE TERM OF CONSTRUCTION, IN CONFORMANCE WITH SECTION 201.05a OF THE HIGHWAY STANDARDS.
3. TREES THAT MAY BE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE VILLAGE.



ELEVATION

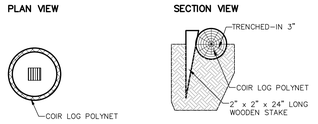
03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.	

TREE PROTECTION FENCING DETAIL

NOTES:

1. DO NOT SCALE DRAWING.
2. REFER TO MANUFACTURER'S PRODUCT SPECIFICATIONS TO ENSURE QUALITY OF THE PRODUCTS



DROP INLET OR MANHOLE
INLET PROTECTION FOR DROP INLETS OR MANHOLES

* USE 9LB DENSITY 12" DIAMETER, 20' LONG COIR LOG POLYNET FOR STANDARD CIRCULAR DRAINAGE STRUCTURES. PLACE THE COIR LOG AROUND THE STRUCTURE AND JOIN THE ENDS TOGETHER WITH COIR TWINE. USE 2"x2"x24" WOODEN STAKES SPACED 3' APART TO HOLD DOWN LOG POLYNET.

MAINTENANCE
1. CLEAN OUT SEDIMENT BEHIND LOG WHEN ½ FULL
2. RESECURE LOOSE LOGS
3. REPLACE LOGS AS NEEDED
4. REMOVE WHEN NOT NEEDED

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.	

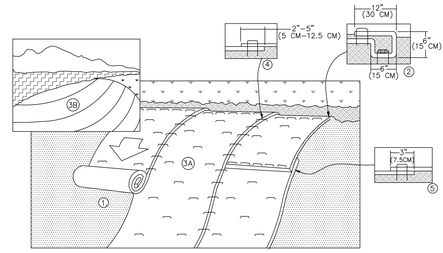
COIR ROLL DETAIL INLET PROTECTION

NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"–5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE:

*IN LOOSE SOIL, CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED PLACEMENTS.

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.	

EROSION CONTROL BLANKET SLOPE INSTALLATION

CONFLUENCE

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CONFLUENCE
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ARCHITECT
LEGAT ARCHITECTS, INC.
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CIVIL ENGINEER
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AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
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CONSTRUCTION MANAGER
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ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

SOIL EROSION AND SEDIMENT CONTROL DETAILS

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File Location: G:\95005987.151 Wheeling RD Aquatic Cnt\95987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pwalsh / PLOT DATE: 2/26/2026 3:50 PM BY: Brian Spencer

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.

2. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

3. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..

5. ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

6. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.

8. IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

9. THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.

10. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

UTILITY NOTES

1. UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.

2. MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.

3. SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.

4. ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.

5. ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.

6. STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.

7. ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.

8. THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER IN THE FIELD.

9. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT.

PROJECT SPECIFIC NOTES

1. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES, RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.

2. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.

3. ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.

4. ALL PUBLIC WATER MAINS AND SANITARY SEWER MAINS MUST BE ACCEPTED BY THE VILLAGE OF WHEELING PUBLIC WORKS DEPT.

5. THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE VILLAGE OF WHEELING BEFORE WORK IS STARTED.

6. CONTRACTOR SHALL NOTIFY THE VILLAGE OF WHEELING (847) 459-2620 AND THE PROJECT ENGINEER (630-701-4242) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.

7. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.

8. THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.

9. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.

11. STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED

12. PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.

13. CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.

14. ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.

15. ALL CONNECTIONS TO EXISTING STORM MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.

16. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.

17. ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE MEETING REQUIREMENTS OF SECTION 1020. ALL SIDEWALKS, CURBS AND POST FOUNDATIONS SHALL BE CLASS SI 3,500 PSI @ 14 DAYS. ALL PAVEMENT SHALL BE CLASS PV 3,500 PSI @ 14 DAYS. WHERE NOTED ON THE PLANS HIGH EARLY CONCRETE SHALL BE CLASS PV TYPE III 3,500 PSI CONCRETE @ 3 DAYS. ALL CONCRETE REQUIRING A CURE TIME FASTER THAN 3 DAYS SHALL HAVE A MIX DESIGN SUBMITTED TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED BY THE MUNICIPALITY, FLY ASH SHALL NOT BE USED IN THE MIX DESIGN. SLUMP SHALL BE 2-4" AND AIR CONTENT SHALL BE BETWEEN 5-8% UNLESS MODIFIED BY ARTICLE 1020.04.

18. ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.

19. 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.

20. UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.

21. ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.

22. ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)

23. SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.

24. ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.

25. ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.

26. ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.

SPECIAL PROVISIONS

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

WORK UNDER THIS ITEM SHALL BE PERFORMED IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) GUIDELINES IN EFFECT AT THE TIME OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL ARRANGEMENTS FOR COORDINATION AND SUBMISSION OF THE NECESSARY DOCUMENTS WITH THEIR CHOSEN CCDD OR OTHER SUITABLE DISPOSAL FACILITY. WRITTEN CONFIRMATION OF PRELIMINARY APPROVAL MUST BE PROVIDED FROM THE DISPOSAL FACILITY AND CONFIRMED BY THE OWNER AS ACCEPTABLE. ALL SURPLUS, CLEAN MATERIAL GENERATED FROM THE CONTRACTOR'S ACTIVITIES MUST BE DISPOSED OF AT AN IEPA PERMITTED CCDD OR OTHERWISE ACCEPTABLE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION TO THE OWNER FOR EACH LOAD HAULED OFF-SITE SHOWING THE QUANTITY OF MATERIAL AND THE LOCATION THE MATERIAL WAS DISPOSED OF. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED COMPLYING WITH THESE REQUIREMENTS INCLUDING BUT NOT LIMITED TO; DELAYS, INCONVENIENCE, OR INTERRUPTIONS IN THE WORK RESULTING FROM COMPLIANCE WITH THESE REQUIREMENTS. ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND DISPOSAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

AS-BUILT DOCUMENTS

THE CONTRACTOR IS REQUIRED TO SUBMIT "AS-BUILT PLANS", i.e. - RECORD DRAWINGS OF ALL PROJECTS THAT INCLUDE THE INSTALLATION OF STORM SEWER, SANITARY SEWER, WATERMAIN AND WATER SERVICES, STORMWATER MANAGEMENT FACILITIES AND SITE GRADING. THE EXISTING ELEVATIONS SHALL BE LINED-THROUGH AND THE AS-CONSTRUCTED GRADES WRITTEN NEXT TO THEM. THE "AS-BUILT PLANS" MUST BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR AND/OR A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO GHA FOR REVIEW. THE AS-BUILT PLANS SHALL FURTHER:

A. SHOW THE RIM AND INVERT ELEVATIONS FOR ALL MANHOLES, CATCH BASINS, INLETS AND FLARED END SECTIONS.

B. WHEN SURFACE DETENTION IS PROVIDED ON A PAVED SURFACE SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME AND HIGH-WATER ELEVATION WAS ACHIEVED.

C. WHEN SURFACE DETENTION IS PROVIDED IN A DETENTION OR RETENTION POND, SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME WAS ACHIEVED. THE AS-CONSTRUCTED GRADES SHALL INCLUDE THE TOP OF THE BERM AND EMERGENCY OVERFLOW.

D. RESTRICTOR STRUCTURES SHALL BE LOCATED AND THE SIZE, TYPE AND ELEVATION OF THE RESTRICTOR SHALL BE PROVIDED ALONG WITH ANY INTERIOR OVERFLOW WEIRS, LOW-FLOW NOTCHES, ETC.

PARTICULAR CARE SHALL BE GIVEN TO INSTALLATION OF ALL IMPROVEMENTS WITHIN THE ADA ROUTES INCLUDING RAMPS, LEVEL LANDINGS, TRANSITION PANELS, CURBS AND TACTILE SURFACES. THE CONTRACTOR SHALL ENSURE THAT ALL CROSS SLOPES AND LANDINGS DO NOT EXCEED 2% EXCEPT IN CHICAGO WHICH CANNOT EXCEED 1.56% RUNNING SLOPES ON ADA ROUTES GREATER THAN 5% REQUIRE HANDRAILS. THE CONTRACTOR SHALL INFORM THE ENGINEER WHEN THE STATED SLOPES ARE EXCEEDED IN THE FIELD

VOLUME CONTROL AS-BUILTS

1. UPON COMPLETION OF THE PROJECT, RECORD DRAWINGS OF ALL PLAN SHEET(S) SHALL BE SUBMITTED TO THE DISTRICT.
2. ALL RECORD DRAWINGS SHALL CONTAIN BENCHMARK INFORMATION AND REFERENCE A VERTICAL DATUM.
3. RECORD DRAWING CALCULATIONS SHALL BE SUBMITTED TO THE DISTRICT FOR THE FOLLOWING:
   A. AS-BUILT VOLUME OF CONSTRUCTED VOLUME CONTROL PRACTICES, DETENTION FACILITIES, AND COMPENSATORY STORAGE; AND
   B. ACREAGE OF CONSTRUCTED NATIVE PLANTING CONSERVATION AREAS, WETLAND MITIGATION AREAS, AND RIPARIAN ENVIRONMENT MITIGATION AREAS.
4. IF THE CONSTRUCTED GRADES, GEOMETRIES, INVERTS, ACREAGE, OR VOLUMES OF CONSTRUCTED STORMWATER FACILITIES, VOLUME CONTROL PRACTICES, DETENTION FACILITIES, COMPENSATORY STORAGE, NATIVE PLANTING CONSERVATION AREAS, WETLAND MITIGATION AREAS, OR RIPARIAN ENVIRONMENT MITIGATION AREAS ARE NOT IN CONFORMANCE WITH THE APPROVED PLANS, THE APPLICANT SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS REQUIRED FOR COMPLIANCE WITH THIS ORDINANCE.
5. RECORD DRAWINGS SHALL BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER OR A PROFESSIONAL LAND SURVEYOR. THE RECORD CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER.

UTILITY TABLE, SPECIFICATIONS, AND TESTING REQUIREMENTS

STORM SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
	PVC SDR 26	PIPE:ASTM D-3034	JOINT:ASTM D-3212
	RCP CL HV	PIPE:ASTM C-76	JOINT:ASTM C-990
	PERFORATIONS	HOLE PATTERN:ASTM D-2729	
FINGERDRAINS	PVC SDR 35	PIPE:ASTM D-3034	SOLVENT WELD JOINT
UNDERDRAINS			
	PVC SDR 35	PIPE:ASTM D-3034	JOINT:ASTM D-3212
WATER MAIN CLASS			
	DIP CL 52	PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4	JOINT:ANSI/AWWA A21.11/C-111
MANHOLES	TYPE A	48" MINIMUM INSIDE DIAMETER	
FRAME & GRATE/LID	PAVED AREAS	OPEN LID:NEENAH R-2015; NF-2015 T17	CLOSED LID:NEENAH R-1713; NF-1015 T45 * All closed lids shall have the words "Village of Wheeling - Storm" casted in it as per standard detail.
	CURB STRUCTURES	OPEN LID:NEENAH R-2015; NF-2015 T17	CLOSED LID:N/A
	GRASS AREAS	OPEN LID:NEENAH R-4340-B UNLESS OTHERWISE NOTED	CLOSED LID:NEENAH R-1713; NF-1015 T45 * All closed lids shall have the words "Village of Wheeling - Storm" casted in it as per standard detail.
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM	
PIPE BEDDING MATERIAL	CA7/CA-11		
TRENCH BACKFILL	CA7/CA-11		
TRENCH BACKFILL UNDERDRAIN	CA7/CA-11	CRUSHED CONCRETE NOT ALLOWED, ALL STONE MUST BE WASHED	
TRENCH BACKFILL FINGERDRAIN	CA7/CA-11	CRUSHED CONCRETE NOT ALLOWED, ALL STONE MUST BE WASHED	

WATER MAIN	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
	DIP CL 52	PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4X	JOINT:ANSI/AWWA A21.11/C-111 COVER: 5.5' MIN, 8-FT MAX
FRAME & GRATE/LID	PAVED AREAS	CLOSED LID:NEENAH R-1713	
	GRASS AREAS	CLOSED LID:NEENAH R-1713	
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM	
VALVE BOXES	5.25" TWO PIECE SCREW	LID EMBOSSED WATER, RUBBER STABILIZER REQUIRED	
WATER VALVES	AWWA C-515	RESILIENT WEDGE GATE VALVE; All valves shall be installed in a minimum, 60 inch diameter precast concrete water-tight vaults *UNLESS OTHERWISE NOTED*	
WATER MAIN FITTINGS	AWWA C-153	ALL FITTINGS MUST BE MANUFACTURED IN THE USA	
PIPE BEDDING MATERIAL	CA-11	*CRUSHED CONCRETE NOT ALLOWED*	
TRENCH BACKFILL	CA-6	*CRUSHED CONCRETE NOT ALLOWED*	
CURB STOP	NO LEAD BRASS	MUELLER B-25154, FORD B22-444	
CURB BOX	1-1/2" Mueller or Ford telescopic B-box	with "WATER" imprinted on the lid of the box and a brass pentagon plug.	
CORPORATION VALVE	NO LEAD BRASS	MUELLER H-15000, FORD F600	
SERVICE SADDLE	DOUBLE STRAP SADDLE	MUELLER SS SERIES SS DBLE STRAP, FORD FS323, ROMAC 306	
FIRE HYDRANT	RED 6' MUELLER A-423 SUPER CENTURION	AWWA C502, 5.25" VALVE OPENINGS, NST, TWO 2.5" PORTS WITH VENTED CAPS AND ONE 4.5" PORT, STAINLESS STEEL HARDWARE, TRAFFIC TYPE, PAINTED RED, 250 PSI OPERATING PRESSURE	
THRUST BLOCKS	PCC	MIN. 12" THICK, REQUIRED ON BENDS 22.5° AND GREATER	
FITTING FASTENER HARDWARE	STAINLESS STEEL	All fastener hard ware (i.e., nuts, bolts and washers) associated with fittings shall be stainless steel. Fittings shall be restrained by thrust resistant wedge, retainer glands, manufactured with torque limiting twist off nuts.	
WATER SERVICE PIPE	TYPE K COPPER	PIPE:ASTM B-88	ALL WATER SERVICES TO BE INSTALLED PER VILLAGE STANDARD

SANITARY SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
	PVC SDR 26	PIPE:ASTM D-3034	JOINT:ASTM D-3212 AND F-477
WATER MAIN CLASS			
	DIP CL 52	PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4	JOINT:ANSI/AWWA A21.11/C-111
FRAME & GRATE/LID	PAVED AREAS	CLOSED LID: NEENAH R-1713; NF-1015 T47	
	GRASS AREAS	CLOSED LID: NEENAH R-1713; NF-1015 T47	
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM	
PIPE BEDDING MATERIAL	CA-11	*CRUSHED CONCRETE NOT ALLOWED*	
TRENCH BACKFILL	CA-6	*CRUSHED CONCRETE NOT ALLOWED*	
MANHOLES	TYPE A	48" MINIMUM INSIDE DIAMETER	
MANHOLE CHIMNEY SEAL	CRETEX	ASTM: C-923	
MANHOLE CONNECTIONS		ASTM: C-923	

TESTING REQUIREMENTS	
WATER MAIN	ALL WATER MAIN SHALL HAVE A PRESSURE AND LEAKAGE TEST PERFORMED IN ACCORDANCE WITH SECTION 41-2.14 OF STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS All water mains shall be pressure tested per requirements of the Village of Wheeling. Leakage test method shall be used to pressure test the watermain. The pressure shall be 150 psi and 200 psi held for 2 hours for domestic water and fire suppression line, respectively. All water mains shall be chlorinated per the following requirements. Initial chlorine concentration shall be 50 mg/l during disinfection and shall be maintained at a minimum of 25 mg/l free chlorine. The chlorinated water shall be retained in the main for a period of at least 24 hours. At the end of the 24 hour period, the treated water shall contain no less than 10 mg/l free chlorine throughout the main. Fire sprinkler and water lines must be pressure tested and chlorinated from the point of connection at the existing watermain to the valve inside the building. Contact Village of Wheeling Public Works Utility Division at (847) 279-6900, at least 48 hours prior to tap
SANITARY SEWER	ALL SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. ALL RIGID SANITARY SEWER PIPE SHALL BE TESTED BY EITHER METHOD A, B OR C AS OUTLINED IN SECTION 31-1.12. ALL FLEXIBLE SANITARY SEWER PIPE SHALL BE TESTED BY METHOD D AND EITHER METHOD A, B OR C. ALL SANITARY SEWER MUST BE TESTED BY METHOD E. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A COPY OF THE VIDEO ON A DIGITAL VIDEO DISC. THE VIDEO MUST BE IN COLOR AND PROCEED NO FASTER THAN 1 FOOT PER SECOND. All sanitary sewers shall be televised, air tested mandrel tested and manholes vacuum tested as required by the Village of Wheeling and the Metropolitan Water Reclamation District of Greater Chicago.
SEWER WATER MAIN CROSSINGS	ALL SEWERS THAT CROSS OR RUN PARRALEL TO WATER MAINS SUBJECT TO IEPA REQUIREMENTS FOR WATER MAIN QUALITY PIPE MUST BE PRESSURE TESTED ACCORDING TO 41-2.14 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS
SANITARY MANHOLES	ALL SANITARY MANHOLES SHALL BE TESTED BY EITHER ASTM C-969 OR ASTM C-1244

NON-WOVEN	STYLE DESCRIPTION	STANDARDS/REQUIREMENTS
LIGHT DUTY	UNDERDRAIN FABRIC	3.5 oz
		MINIMUM GRAD TENSILE ASTM D4632 = 90 LBS
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 40 LBS
		MINIMUM FLOW RATE ASTM D4491 = 150 GAL/MIN/SQFT
MEDIUM DUTY	UNDERDRAIN FABRIC	6 oz
		MINIMUM GRAD TENSILE ASTM D4632 = 160 LBS
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 60 LBS
		MINIMUM FLOW RATE ASTM D4491 = 110 GAL/MIN/SQFT
HEAVY DUTY	SUBGRADE/SUBBASE SEPARATION	10 oz
		MINIMUM GRAD TENSILE ASTM D4632 = 250 LBS
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 100 LBS
		MINIMUM FLOW RATE ASTM D4491 = 75 GAL/MIN/SQFT

Village of Wheeling - General Notes

1) It shall be the responsibility of the developer (owner) and the contractor to abide by, adhere to and perform all work in accordance with the requirements, specifications, standards, practices, policies and codes of the Village of Wheeling which includes but is not limited to labor, materials, procedures and safety.
2) Underground construction shall comply with the applicable ordinances and requirements of the Village of Wheeling and the Illinois Department of Transportation "Specifications for Road and Bridge Construction", latest edition, and the Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition. All construction shall conform to the Illinois Recommended Standards for Sewerage Works, latest edition, published by the Illinois Environmental Protection Agency (I.E.P.A.) except for conflicts with the Metropolitan Water Reclamation District of Greater Chicago (M.W.R.D.G.C.) Sewer Permit and Manual of Procedures Ordinances. In case of a conflict the most restrictive standards and requirements shall govern.
3) All paving and excavation work shall comply with the applicable ordinances of the Village of Wheeling and the Illinois Department of Transportation "Specifications for Road and Bridge Construction" latest edition. In case of a conflict, the most restrictive standards and requirements shall govern.
4) The contractor shall field check and verify all existing utility locations, dimensions and elevations in the field prior to the commencement of construction of the improvements or proposed work. All existing utility locations on the plans have been shown based on best available information. Notify the engineer immediately if discrepancies are found.
5) Any changes, revisions or substitutions to the plans, specifications, materials, requirements or work shall be submitted to the Village Engineer, in writing, with written approval by the Village Engineer received prior to beginning said work. All materials and construction whether implicitly or explicitly stated or covered within the requirements, codes or specifications, shall be approved by the Village Engineer, prior to commencing the installation and construction.
6) The contractor must contact J.U.L.I.E. at 1-800-892-0123 at least 48 hours prior to starting work. All other agencies shall also be notified as required.
7) The contractor shall notify the Village of Wheeling Engineering Division at (847) 459-2620 and the Metropolitan Water Reclamation District of Greater Chicago (708) 588-4055 two (2) business days prior to the start of construction.
8) It shall be the responsibility of the contractor to call the Village at 847-459-2620 at least 48 hours in advance and set up the necessary and proper inspection(s) for all work to be performed.
9) One set of stamped approved plans shall be on site at all times during construction of the project.
10) It is the responsibility of the contractor to maintain and keep at the job site, an up to date set of "Record Drawings" showing all changes from the original plans. The contractor shall deliver the "Record Drawings" to the engineer at the conclusion of the project, prior to any final inspections. The engineer will transfer the information to the original plans by incorporating the Village of Wheeling As-Built requirement list and furnish the Village one (1) sets of complete "Record Drawings," and, if required, one (1) set of electronic version of the Record Drawings and Site Information at the completion of the project.

Village of Wheeling - General Notes

11) The location of all service connections for sanitary sewer, storm sewer and water shall be shown from the closest manhole or valve vault. All B-boxes and cle

A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   - * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   - * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   - * VILLAGE OF WHEELING MUNICIPAL CODE;
   - * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   - * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
2. THE VILLAGE OF WHEELING ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ~~CONVERSION FACTOR IS ________ FT.~~
2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC. FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    - a.) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    - b.) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    - c.) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   - a.) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   - b.) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

TECHNICAL GUIDANCE MANUAL | 10/13/2022

MWRD GENERAL NOTES | STD. DWG. NO.18 | PAGE NO. 19

CONFLUENCE

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CIVIL ENGINEER
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100 Park Avenue
Beaver Dam, WI 53916
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CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
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ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

MWRD GENERAL NOTES

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

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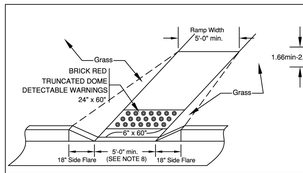
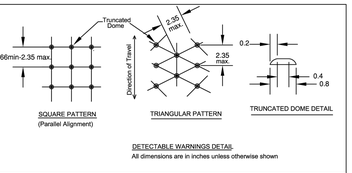
IF THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOTTED SCALE, SCALE IS CORRECT

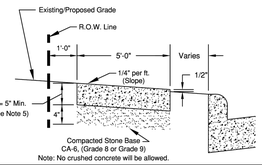
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WITH BLACK AND WHITE LETTERS.





DETECTABLE WARNINGS DETAIL
All dimensions are in inches unless otherwise shown

SIDEWALK RAMP



PUBLIC SIDEWALK

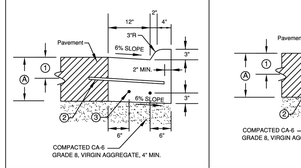
NOTE:
1. TO BE FORMED WITH 2" x 6" BOARDS OR BY 5" WIDE STEEL FORMS.
2. TOOLED JOINTS SHALL BE 1/2" AT 5' CENTERS.
3. EXPANSION JOINTS SHALL BE 3/4" THICK X 5" WIDE BITUMINOUS IMPREGNATED FIBERBOARD AT 50' CENTERS, AT DRIVEWAYS AND OTHER CONCRETE JOINTS.
4. PROVIDE BROOM FINISH EXCEPT AT TRUNCATED DOME.
5. D = 6" AT RESIDENTIAL DRIVEWAY
   D = 8" AT COMMERCIAL/INDUSTRIAL DRIVEWAYS
6. SIDEWALK RAMPS AT DRIVEWAYS SHALL BE BUILT PER THE VILLAGE STANDARD.
7. THE CONCRETE SHALL BE A 6 BAG MIX AND SHALL NOT CONTAIN CHLORIDE OR FLY ASH. THE COMPRESSIVE STRENGTH SHALL MEET OR EXCEED I.D.O.T.'S REQUIREMENTS FOR "SI" CONCRETE (MINIMUM 3500 PSI @ 14 DAYS)
8. PROVIDE DEPRESSED CURBS AT ALL WALKS, 5' MINIMUM WIDTH ON DEPRESSION.
9. ALL SIDEWALKS, CURB/GUTTER AND PAVEMENT TO BE SAW-CUT AS REQUIRED.
10. MAXIMUM SLOPE OF RAMP NOT TO EXCEED 8%.
11. DRIVEWAY APRON REMOVAL & REPLACEMENT SHALL INCLUDE THE INSTALLATION OF A TRUNCATED DOME HANDICAPPED SIDEWALK RAMP ON BOTH SIDES OF THE APRON UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER.
12. TRUNCATED DOME CONSTRUCTION FOR DETECTABLE WARNINGS SHALL BE ARMOR-TILE TACTILE SYSTEMS FEDERAL #22144 OR TUFTILE DETECTABLE WARNING TILES, BRICK RED AND SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE I.D.O.T. STANDARDS. NO SURFACE MOUNT PANELS ALLOWED.

PUBLIC SIDEWALK

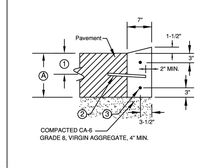
VILLAGE OF WHEELING ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
WWW.WHEELINGIL.GOV

PUBLIC SIDEWALK STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	K.R.G.	9-11-06 AS PER T.W.M.	
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	C.J.C.	08-08-08 AS PER K.R.G.	R-3
	L.S.	06-04-14 AS PER K.P.	
	K.A.G.	12-21-16 AUTOCAD FILE	



COMBINATION CURB & GUTTER TYPE B-6.12



COMBINATION DEPRESSED CURB & GUTTER

Ⓐ PAVEMENT DEPTH OR 9" MIN.

① TO BE CENTERED OR SET AS REQUIRED IN FIELD.

② 1/2" DIA. STEEL TIE BAR AT 2'-6" CENTERED WHEN PAVEMENT IS CONCRETE. OMIT WHEN ADJACENT PAVEMENT IS FLEXIBLE.

③ 5/8" DIA. STEEL REBAR CONTINUOUS (TYPICAL).

NOTES:

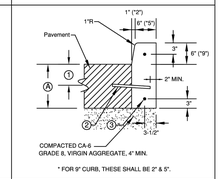
PROVIDE DEPRESSED CURBS AT DRIVEWAYS, CROSSWALKS, AND SIDEWALKS, ETC.

ALL CONCRETE SHALL HAVE A 4,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 606 UNLESS OTHERWISE NOTED HEREIN.

COMBINATION CURB & GUTTER TYPE M-3.12

DEPRESSED CURB (TYPE B)

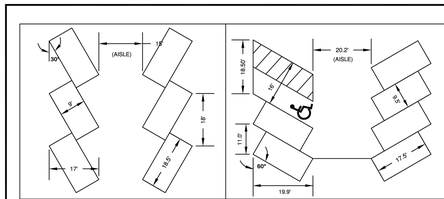


* FOR 9" CURB, THESE SHALL BE 2" & 5".

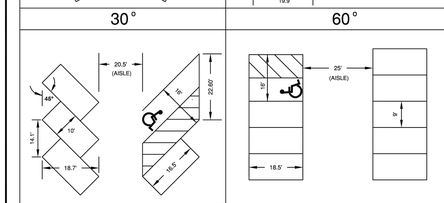
BARRIER CURB (TYPE B)

CURB AND GUTTER STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	06-16-00 AUTOCAD FILE	
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.A.G.	11-21-16 AUTOCAD FILE	R-12



30° | 60°

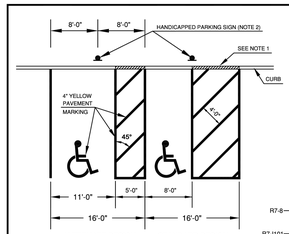


45° | 90° | PARALLEL

NOTES:
1. NO HANDICAPPED PARKING ALLOWED 30° AND PARALLEL.
2. HANDICAPPED DIMENSIONS SEE HANDICAPPED PARKING STANDARD.

PARKING STALL STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	06-01-00 AUTOCAD FILE	
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.A.G.	01-12-16 AUTOCAD FILE	R-7



ALTERNATE DESIGN | STANDARD DESIGN

PARKING STALL

PARKING STALL NOTES
1. DEPRESSED CURB OR CURB RAMP REQUIRED WITH ACCESS TO A 5' WIDE PAVED SURFACE.
2. SIGN MOUNTED NO MORE THAN 5'-0" HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE.

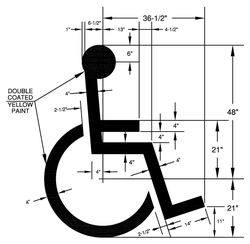


MUTCD R7-8
12" x 18"



MUTCD R7-1101
12" x 6"

HANDICAPPED PARKING SIGN



SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL

PAINTED SYMBOL

HANDICAPPED PARKING STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	3-10-00 AUTOCAD FILE	
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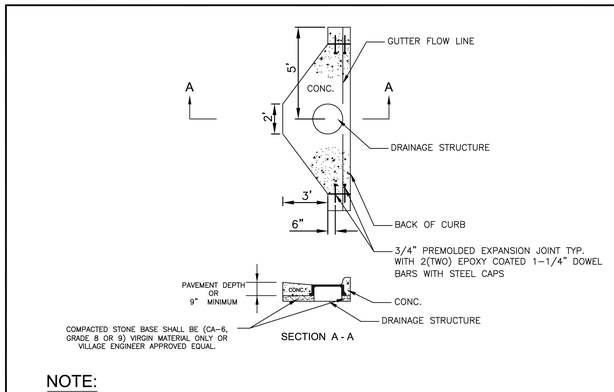
T:\ENGINEERING\STANDARDS	C.J.C.	11-27-07 AUTOCAD FILE	R-8

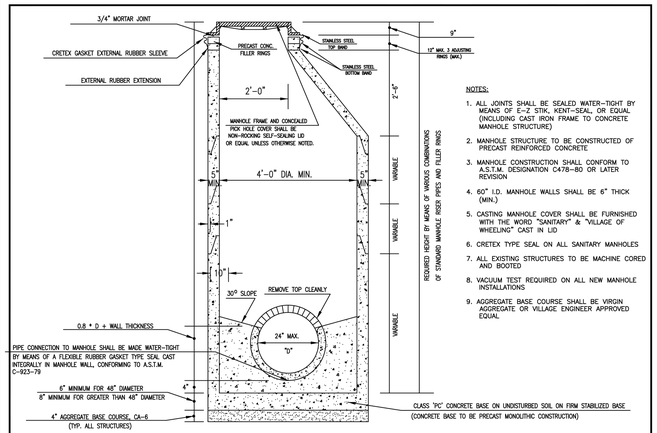


SECTION A - A

NOTE:
CONCRETE REPLACEMENT WILL BE MONOLITHIC POUR WITH EXPANSON MATERIAL AT CONSTRUCTION JOINT.

MODIFIED CURB DRAINAGE STRUCTURE PRIVATE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	K.R.G.	02-19-09 AGG. BASE	
FILE LOCATION	M.T.P.	09-29-09 AGG. BASE	
T:\ENGINEERING\STANDARDS			R-16



NOTES:
1. ALL JOINTS SHALL BE SEALED WATER-TIGHT BY MEANS OF E-Z STIK, KENT-SEAL, OR EQUAL (INCLUDING CAST IRON FRAME TO CONCRETE MANHOLE STRUCTURE)
2. MANHOLE STRUCTURE TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE
3. MANHOLE CONSTRUCTION SHALL CONFORM TO A.S.T.M. DESIGNATION C478-80 OR LATER REVISION
4. 60" I.D. MANHOLE WALLS SHALL BE 6" THICK (MIN.)
5. CASTING MANHOLE COVER SHALL BE FURNISHED WITH THE WORD "SANITARY" & "VILLAGE OF WHEELING" CAST IN LID
6. CRETEX TYPE SEAL ON ALL SANITARY MANHOLES
7. ALL EXISTING STRUCTURES TO BE MACHINE CORED AND BOOTED
8. VACUUM TEST REQUIRED ON ALL NEW MANHOLE INSTALLATIONS
9. AGGREGATE BASE COURSE SHALL BE VIRGIN AGGREGATE OR VILLAGE ENGINEER APPROVED EQUAL

SANITARY MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	02-27-03 PER COMMENTS	
FILE LOCATION	P.F.	06-16-06 PER COMMENTS	
T:\ENGINEERING\STANDARDS	C.J.C.	11-27-07 AUTOCAD FILE	SAN-1
	K.A.G.	1-04-18 STEPS REMOVED	

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www.thinkconfluence.com

ARCHITECT
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49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

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NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

C30

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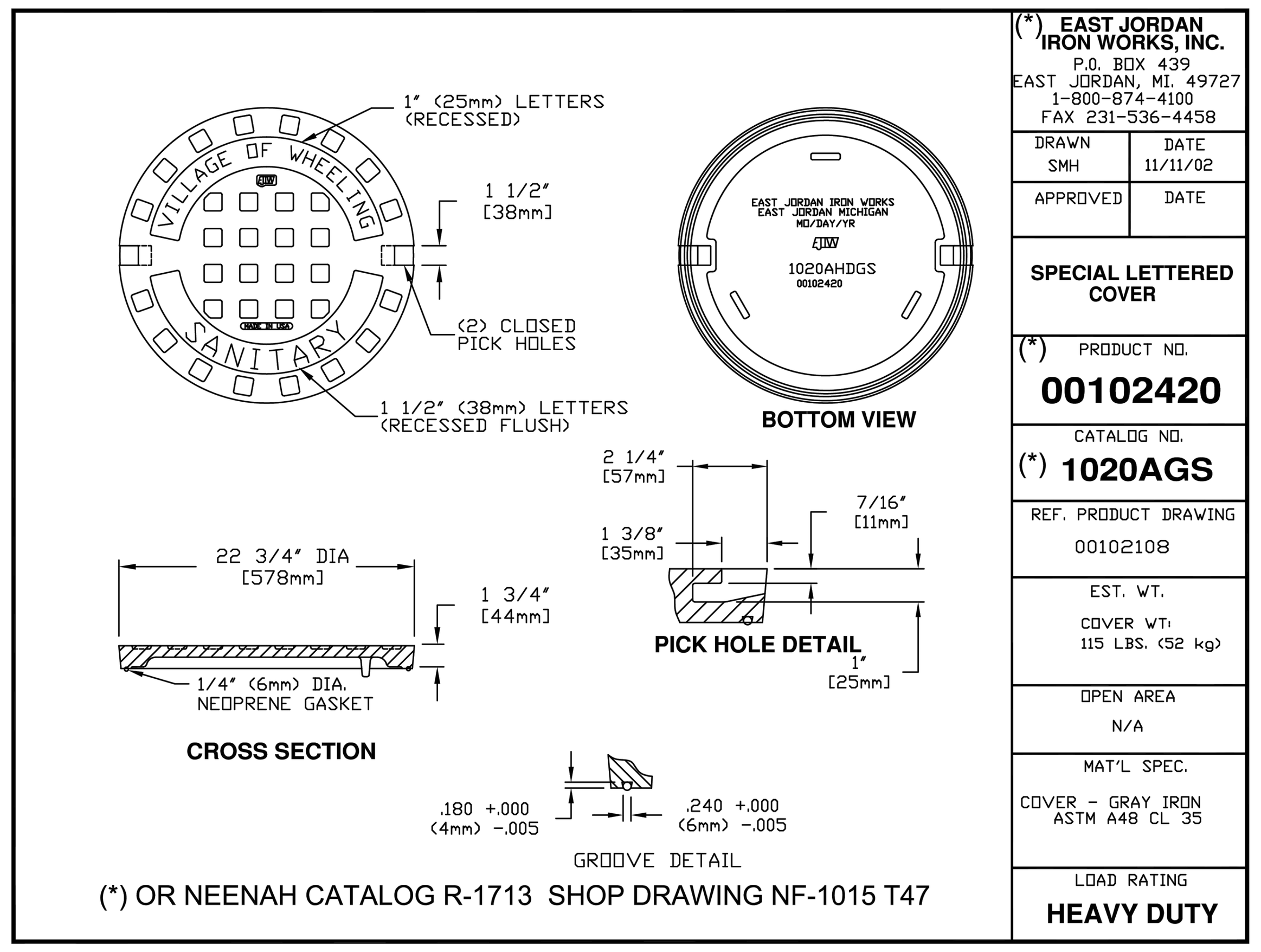
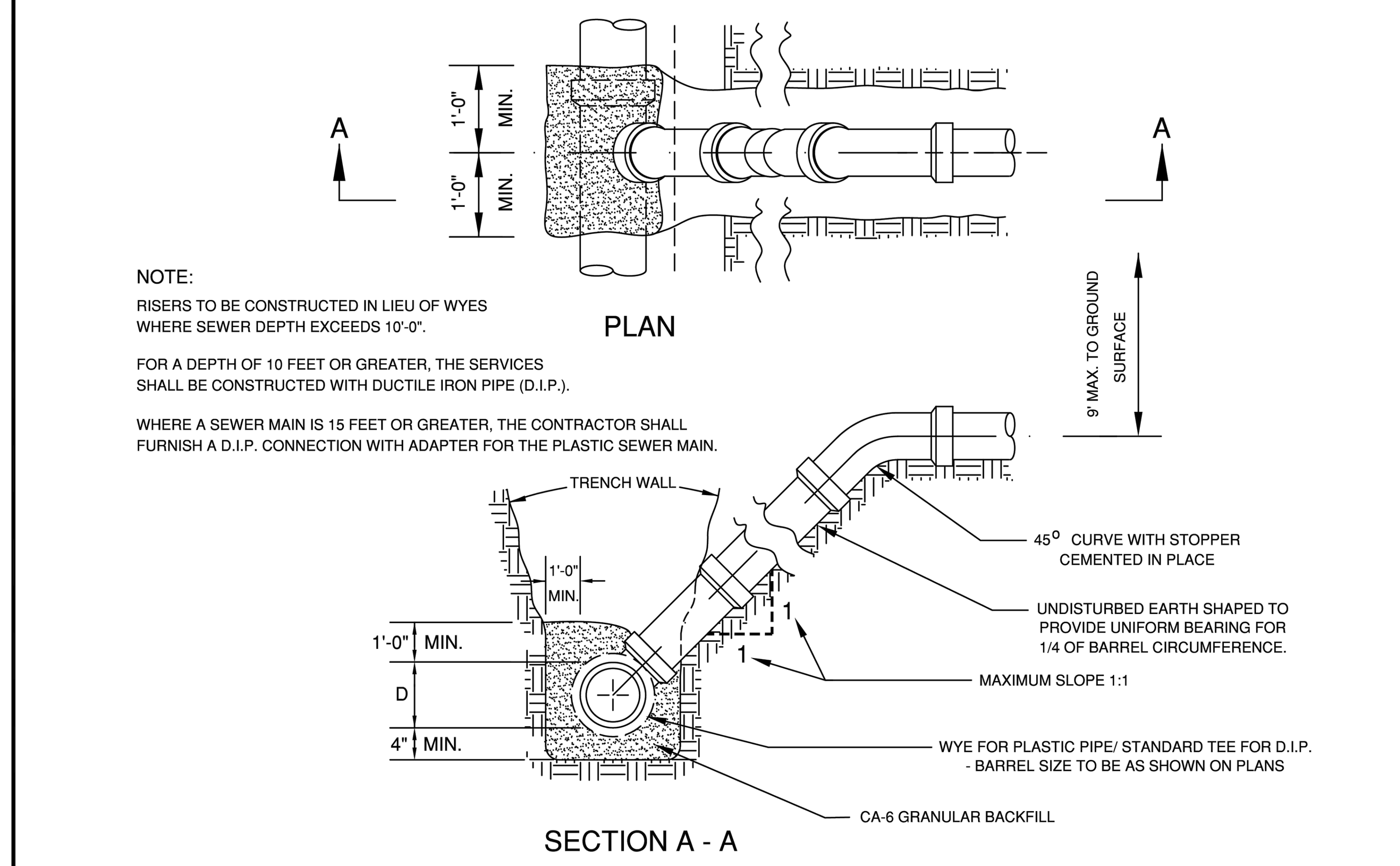
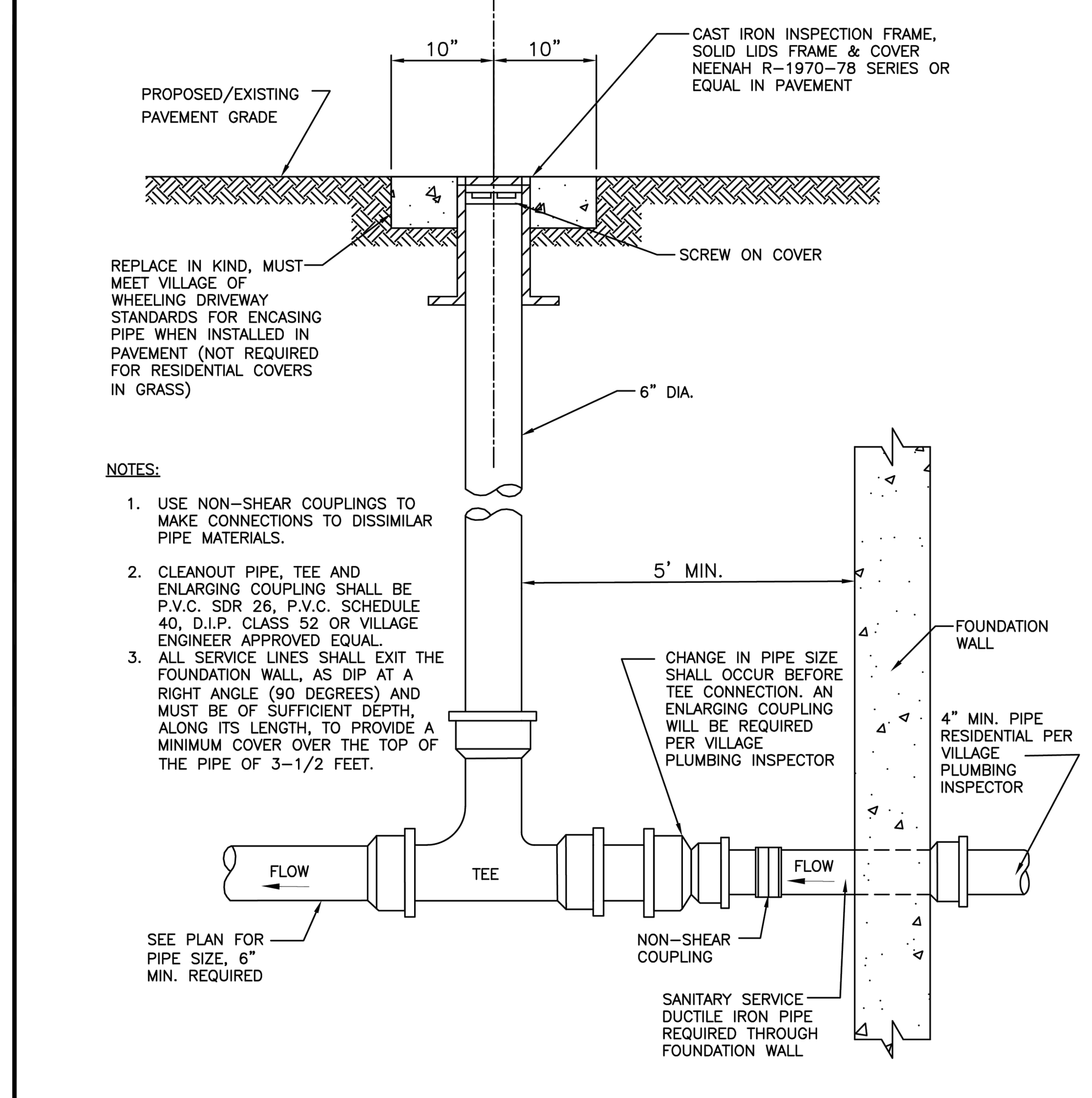


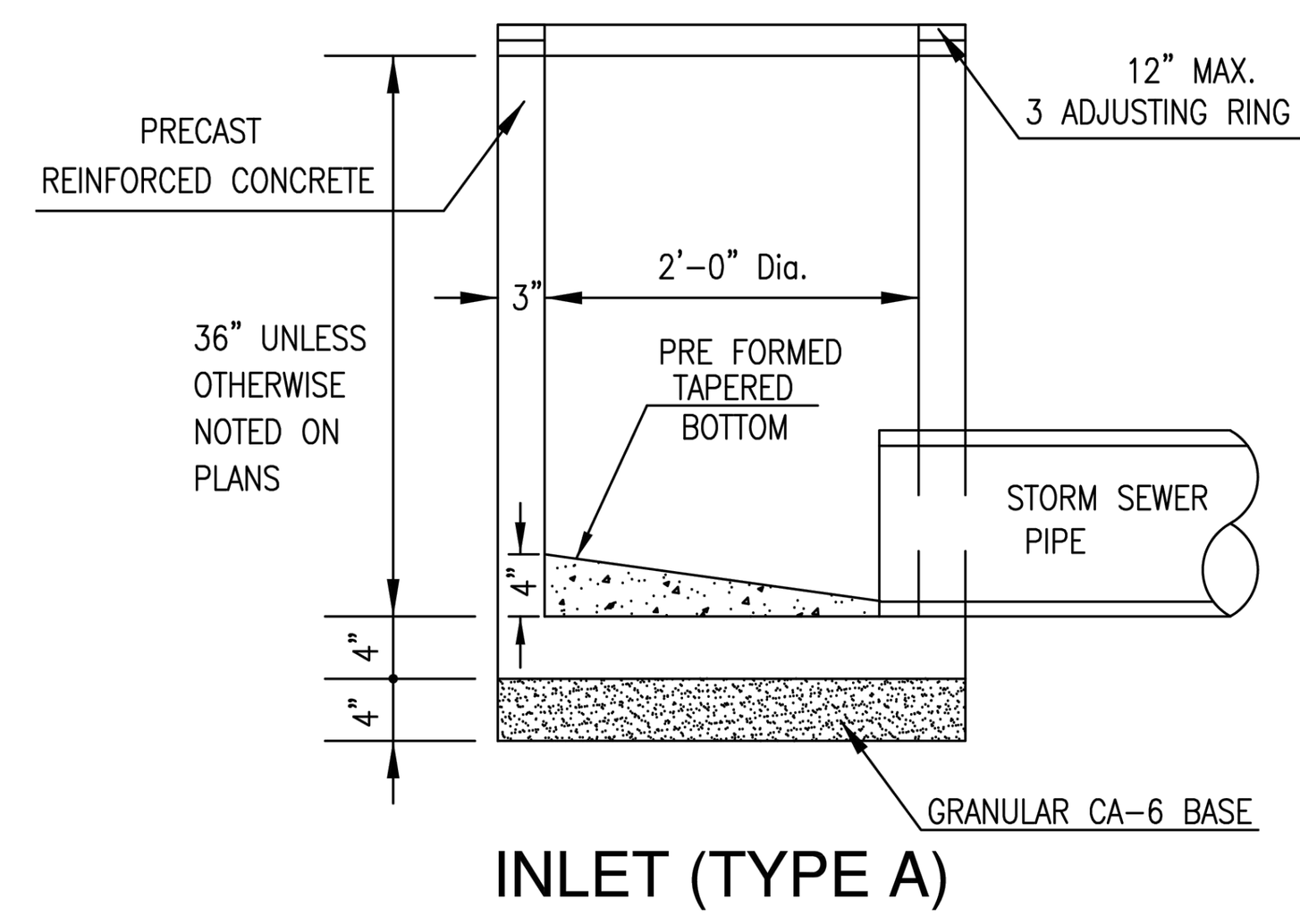
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND CLOSED LID SANITARY STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-24-00 AUTOCAD FILE; S.W. 11-12-02 NPDES PHASE II; S.W. 02-07-03 ADDING NEENAH; C.J.C. 11-27-07 AUTOCAD FILE	DETAIL NO. SAN 3



VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	SANITARY SERVICE RISER STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 9-8-00 AUTOCAD FILE; C.J.C. 11-27-07 AUTOCAD FILE	DETAIL NO. SAN-5

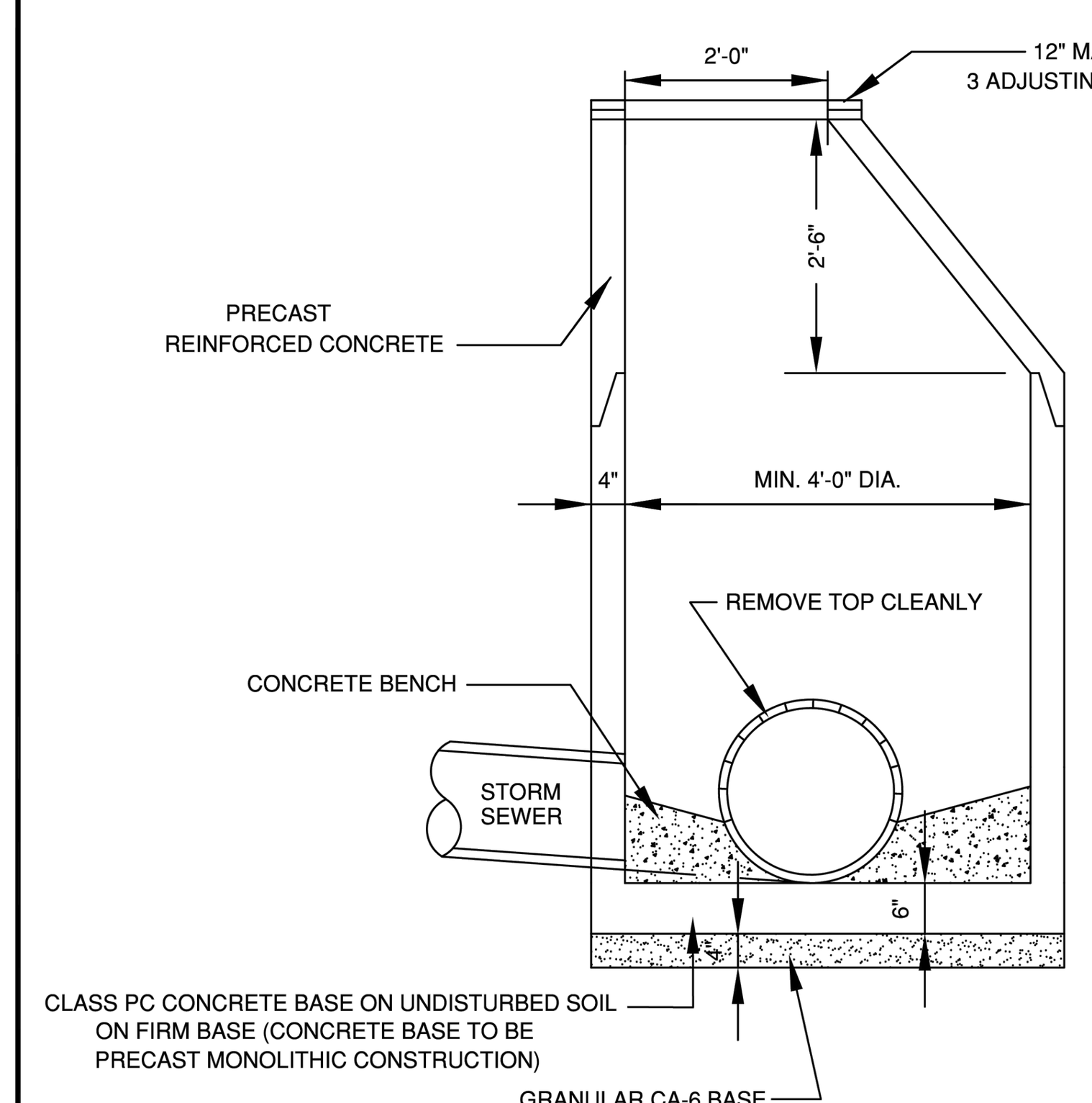


VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	SANITARY SEWER CLEANOUT STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: C.J.C. 11-27-07 AUTOCAD FILE; C.J.C. 08-08-08 VILLAGE REVISIONS; K.R.G. 08-31-11 TEE REVISIONS	DETAIL NO. SAN-6



NOTE:
1. STORM SEWER PIPES IN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE AS PER SECTION 550 OF THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
2. STORM SEWER ON PRIVATE PROPERTY MAY BE PVC-SDR26, DUCTILE IRON, OR RCCP.
3. ALL OTHER PIPE MATERIAL MUST BE APPROVED BY THE VILLAGE ENGINEER.
4. JOINTS FOR RCCP SHALL BE PREFORMED, FLEXIBLE, O-RING GASKET TYPE OR TYLOX SUPER SEAL GASKET (ASTM C-361).
5. INLET SHALL BE CONNECTED TO A STORM SEWER AFTER FLOWING THROUGH A CATCH BASIN AND SHALL NOT DISCHARGE DIRECTLY TO THE STORM SEWER.
6. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	INLET STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 5-17-00 AUTOCAD FILE; S.W. 9-21-01 PER COMMENTS; C.J.C. 01-29-08 AUTOCAD FILE; K.A.G. 01-04-18 ADDED NOTES	DETAIL NO. ST-1



NOTE:
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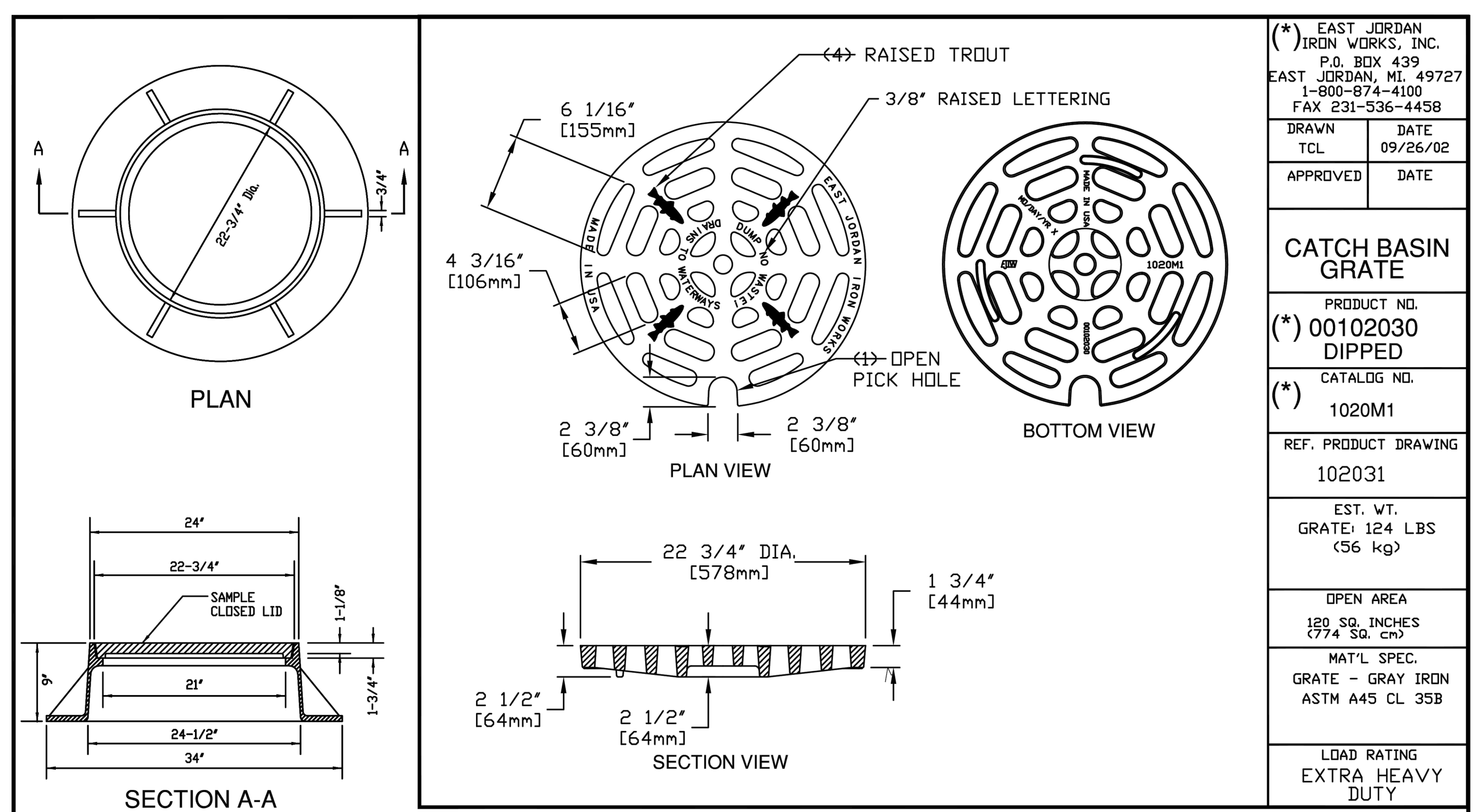
2. STORM SEWER ON PRIVATE PROPERTY MAY BE PVC-SDR26, DUCTILE IRON, OR RCCP.
3. ALL OTHER PIPE MATERIAL MUST BE APPROVED BY THE VILLAGE ENGINEER.
4. JOINTS FOR RCCP SHALL BE PREFORMED, FLEXIBLE, O-RING GASKET TYPE OR TYLOX SUPER SEAL GASKET (ASTM C-361).
5. INLET SHALL BE CONNECTED TO A STORM SEWER AFTER FLOWING THROUGH A CATCH BASIN AND SHALL NOT DISCHARGE DIRECTLY TO THE STORM SEWER.
6. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER

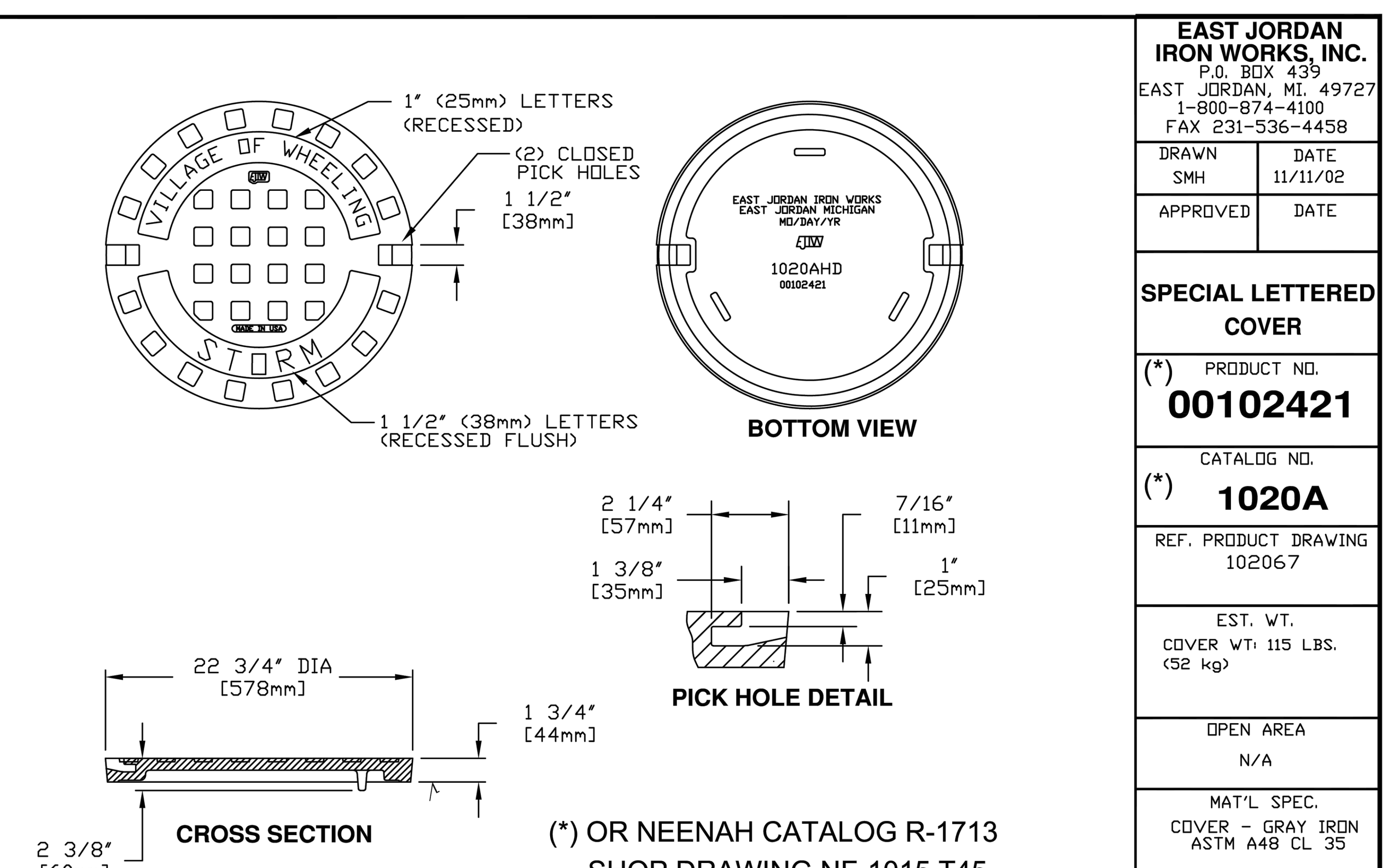
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 9-21-01 PER COMMENTS; S.W. 2-27-03 PER COMMENTS; K.R.G. 9-11-06 AUTOCAD FILE; K.A.G. 1-04-18 NOTES ADDED	DETAIL NO. ST-4



FURNISH HEAVY DUTY CASTING AS REQUIRED BY THE VILLAGE ENGINEER

(*) or NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17

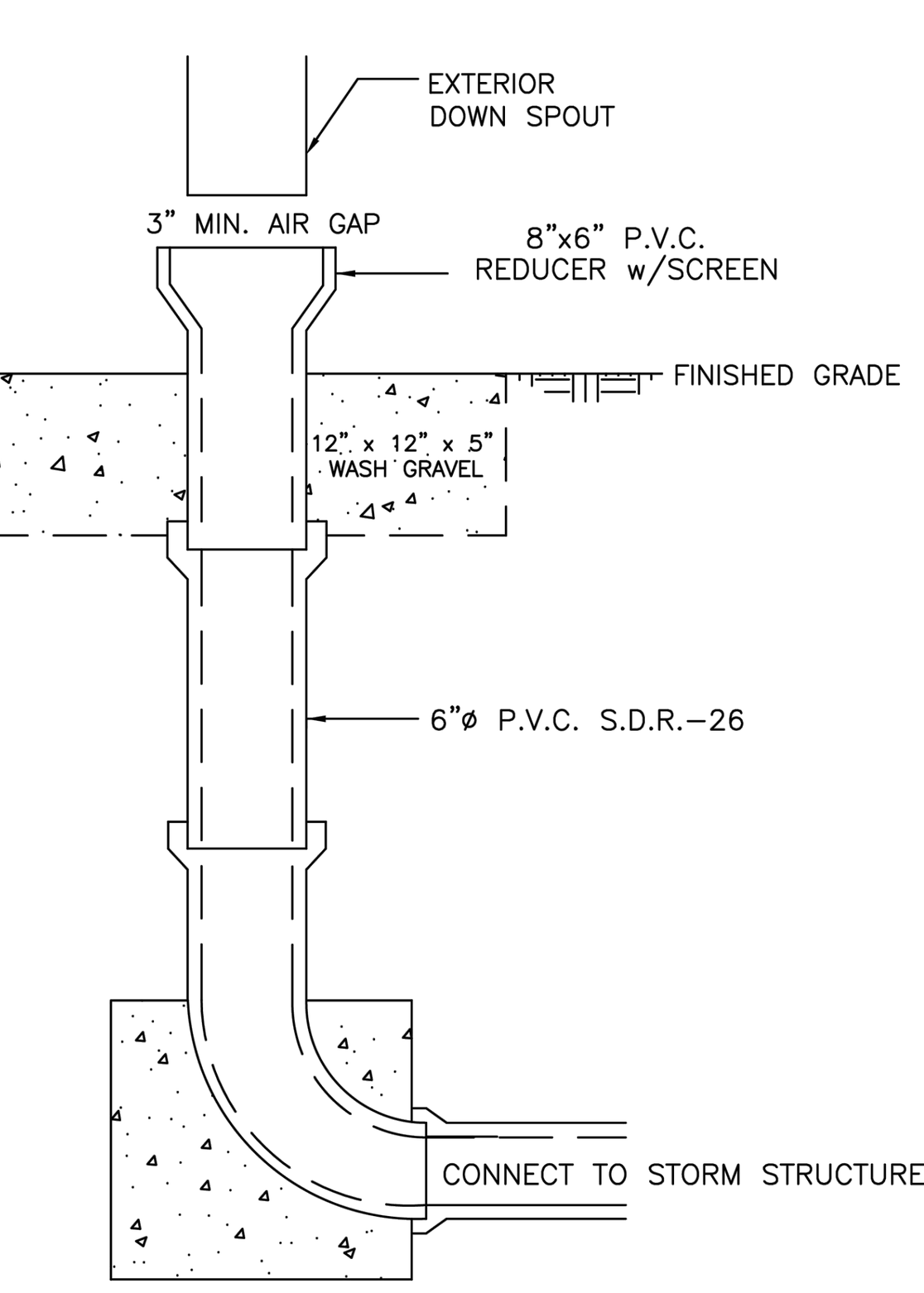
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND OPEN LID STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-24-00 AUTOCAD FILE; S.W. 9-19-01 PER COMMENTS; S.W. 11-12-02 NPDES PHASE II; S.W. 02-07-03 ADDING NEENAH; K.R.G. 9-11-06 AUTOCAD FILE	DETAIL NO. ST-6



(*) OR NEENAH CATALOG R-1713 SHOP DRAWING NF-1015 T45

√ MACHINED SURFACE

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND CLOSE LID STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-24-00 AUTOCAD FILE; S.W. 9-19-01 PER COMMENTS; S.W. 11-12-02 NPDES PHASE II; S.W. 02-07-03 ADDING NEENAH; C.J.C. 01-29-08 AUTOCAD FILE	DETAIL NO. ST-7



NOTE:
1. IF DOWN SPOUT DISCHARGE IS NOT INTO THE STORM SEWER SYSTEM, IT MUST BE TERMINATED NO MORE THAN 10 FT FROM THE BUILDING BUT NOT CLOSER THAN 3 FT FROM THE ADJACENT PROPERTY OR WITH THE DIRECTION OF FLOW ONTO ADJACENT PROPERTY.
2. IF CONNECTING DOWN SPOUT DISCHARGE TO VILLAGE STORM SEWER STRUCTURE, CONNECTION MUST BE CORED AND RUBBER BOOTED.
3. DOWNSPOUT PIPE MATERIAL ON PRIVATE PROPERTY MAY BE PVC OR PE (POLYETHYLENE) PLASTIC PIPE.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	DOWNSPOUT CONNECTION STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 5-17-00 AUTOCAD FILE; S.W. 11-07-02 PER COMMENTS; K.R.G. 9-11-06 AUTOCAD FILE; K.A.G. 1-04-18 NOTES ADDED	DETAIL NO. ST-11

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CAMOSY CONSTRUCTION
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Zion, IL 60099
847.478.9700

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NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

C31

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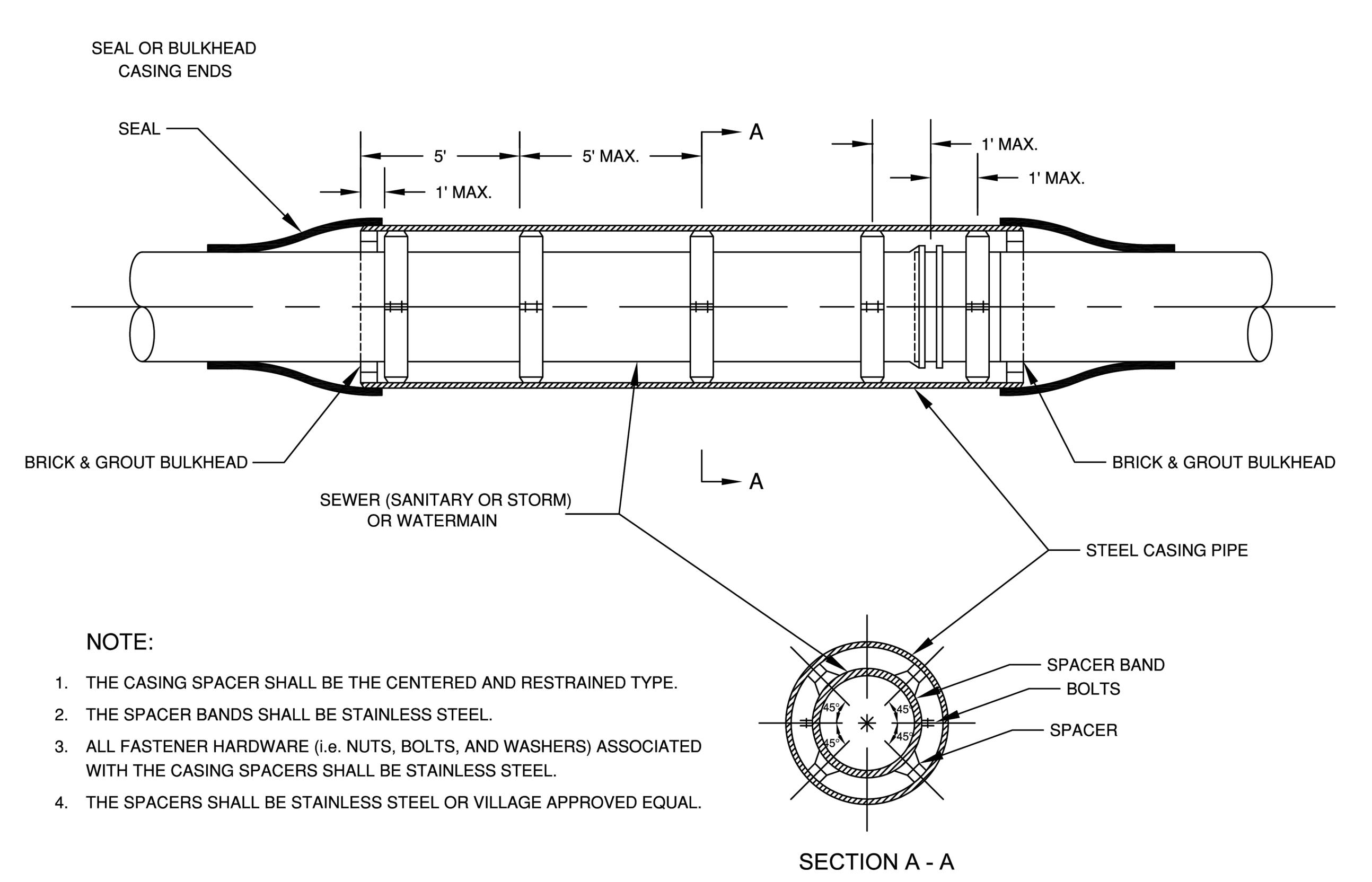
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY



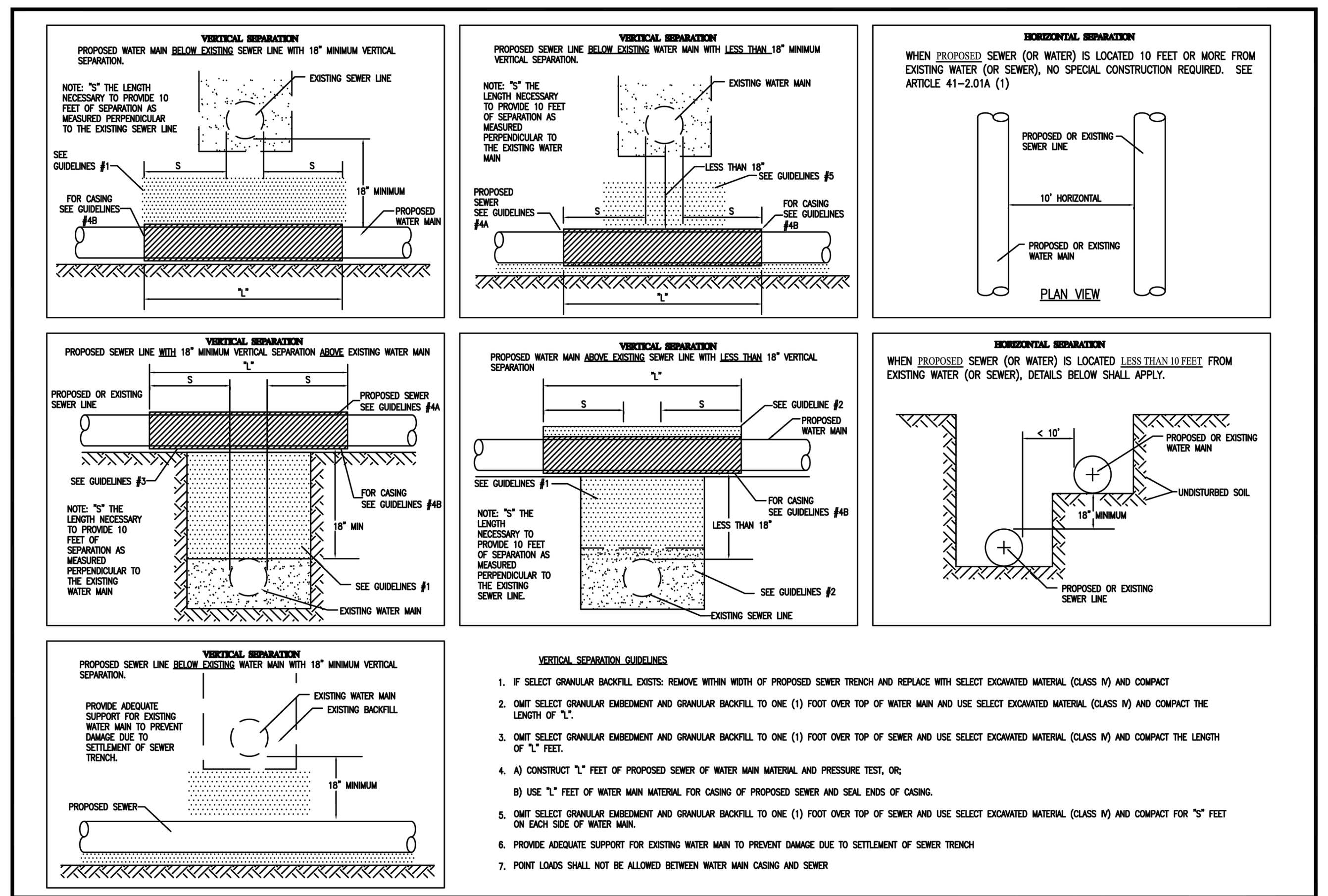
NOTE:

1. THE CASING SPACER SHALL BE THE CENTERED AND RESTRAINED TYPE.
2. THE SPACER BANDS SHALL BE STAINLESS STEEL.
3. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH THE CASING SPACERS SHALL BE STAINLESS STEEL.
4. THE SPACERS SHALL BE STAINLESS STEEL OR VILLAGE APPROVED EQUAL.

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

UNDERGROUND UTILITY CASING PIPE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	4-17-00 AUTOCAD FILE	UTL-3
T:\ENGINEERING\STANDARDS	S.W.	6-11-04 SPACER RQRMNT.	
	K.R.G.	9-11-06 AUTOCAD FILE	



VERTICAL SEPARATION GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
2. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
3. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
4. A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;
   B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
5. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR "S" FEET ON EACH SIDE OF WATER MAIN.
6. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
7. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER

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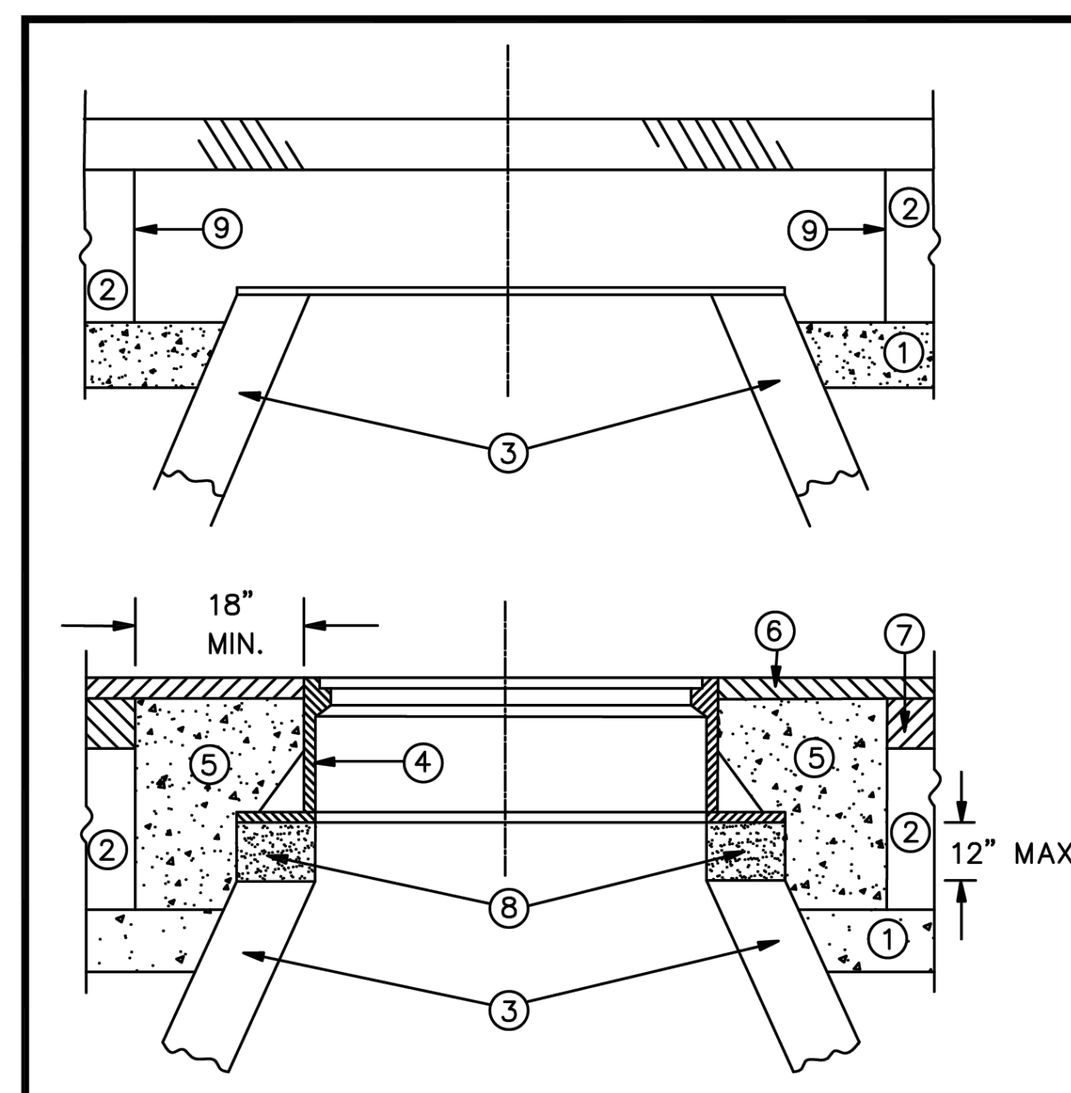
UTILITY SEPARATION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	2-6-06 AUTOCAD FILE	UTL-4
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	
	K.A.G	11-07-16 AUTOCAD FILE	



LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. EXISTING STRUCTURE
4. FRAME AND LID (SEE NOTES)
5. CLASS SI CONCRETE
6. PROPOSE HMA SURFACE COURSE
7. PROPOSE HMA BINDER COURSE
8. PROPOSED MORTAR, STEEL SHIMS & ADJUSTING RINGS 12" MAXIMUM
9. FULL DEPTH SAW CUT

NOTES:

EXISTING FRAMES AND LIDS SHALL BE REMOVED AND RETURNED TO THE VILLAGE OF WHEELING BY THE COTNRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.

VILLAGE OF WHEELING CASTINGS ARE THE PROPERTY OF THE VILLAGE AND THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF REMOVAL AND DISPOSITION OF THE CASTINGS.

INSTALLATION OF NEW OR ADJUSTMENTS TO EXISTING FRAMES & LIDS WILL NOT BE PAID FOR SEPARATELY BUT ARE INCLUDED AS PART OF THE COST PER EACH ARE INCLUDED AS PART OF THE COST PER EACH ADJUSTED.

CONSTRUCTION PROCEDURES

STAGE 1 (AFTER PAVEMENT MILLING AND PLACEMENT OF HMA BINDER)

A) FULL DEPTH SAW CUT 5' X 5' SQUARE OR DIAMOND AROUND CENTER OF FRAME TO BE ADJUSTED.
B) REMOVE FRAME, EXISTING PAVEMENT AND AGGREGATE MATERIAL TO A DEPTH OF 2" BELOW TOP OF MANHOLE STRUCTURE OR 2" BELOW BOTTOM OF LOWEST ADJUSTMENT RING.
C) ADJUST NEW FRAME TO MATCH PROPOSED HMA PAVEMENT SURFACE GRADE USING MORTAR, STEEL SHIMS EMBEDDED IN MORTAR, AND PRECAST CONCRETE ADJUSTING RINGS.
D) COMPACT EXISTING AGGREGATE STONE BASE.
E) FILL 5' X 5' SURROUNDING SPACE WITH IDOT APPROVED CLASS SI CONCRETE TO THE SAME ELEVATION OF THE TOP OF THE BINDER COURSE.
F) PAVE SURFACE COURSE OVER 5' X 5' CONCRETE COLLAR.

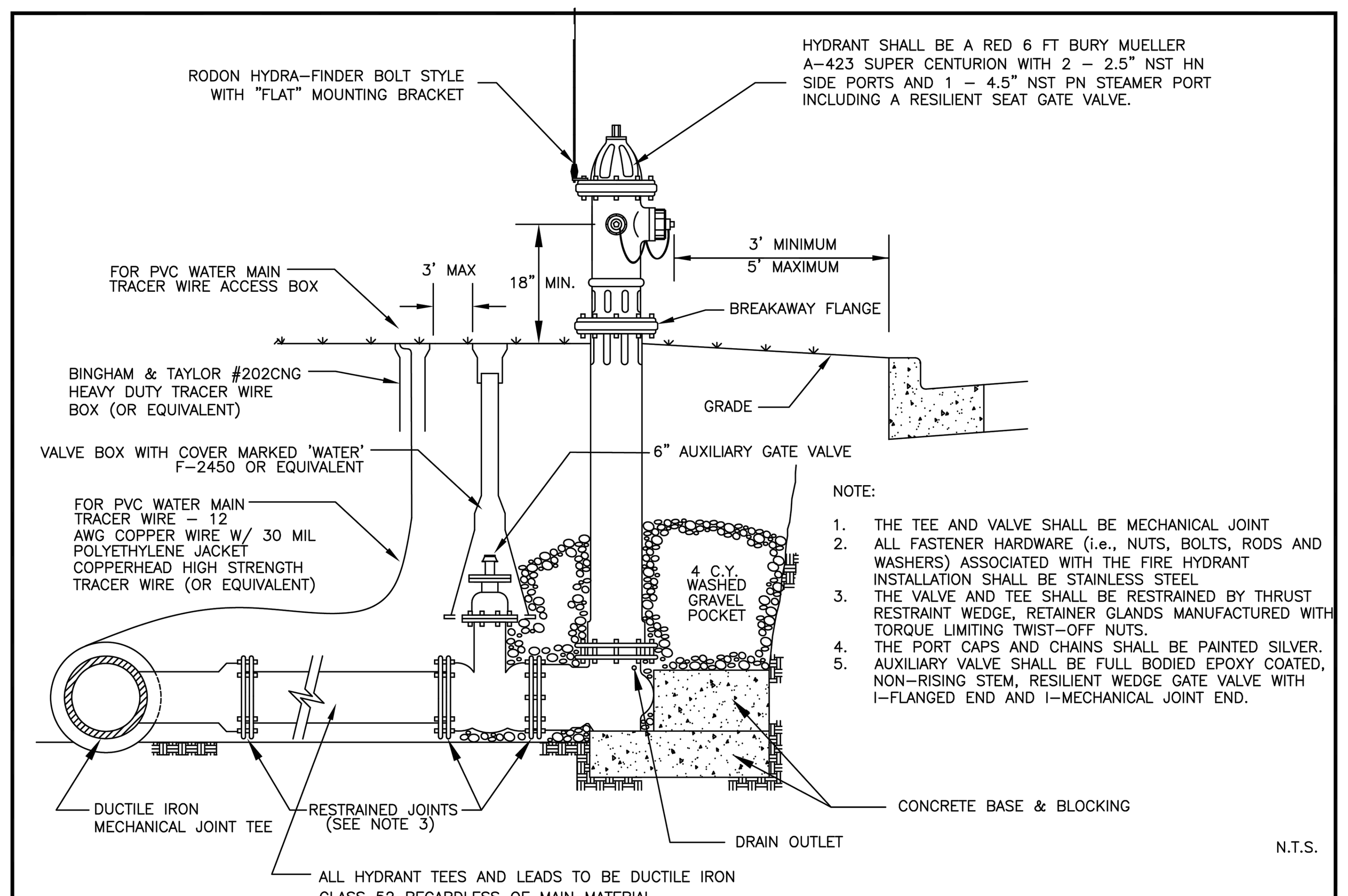
THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS
FILE LOCATION
T:\ENGINEERING\STANDARDS

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

FRAME AND LID ADJUSTMENT WITH CONCRETE COLLAR

REVISIONS | DETAIL NO. UTL-7



NOTE:

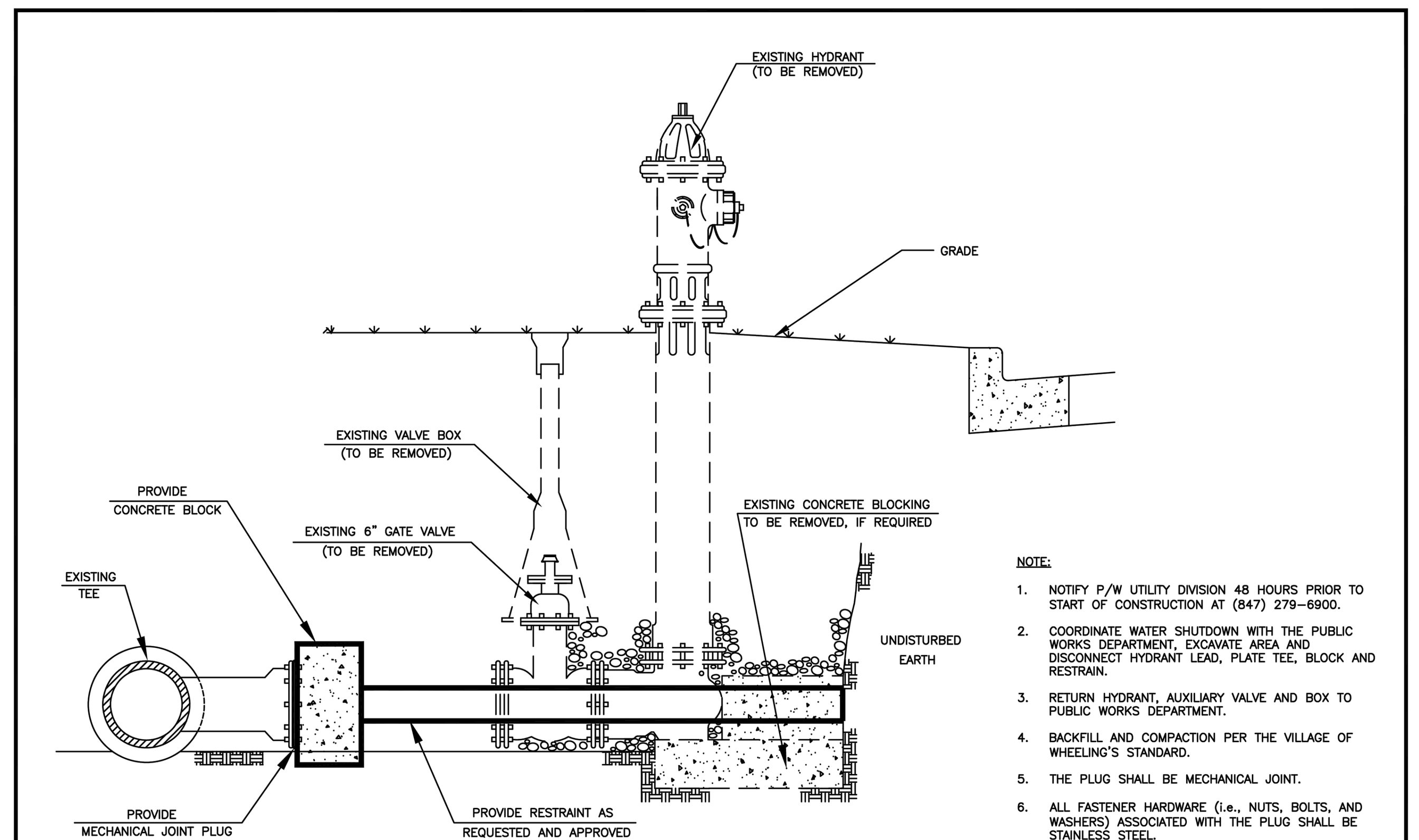
1. THE TEE AND VALVE SHALL BE MECHANICAL JOINT
2. ALL FASTENER HARDWARE (i.e., NUTS, BOLTS, RODS AND WASHERS) ASSOCIATED WITH THE FIRE HYDRANT INSTALLATION SHALL BE STAINLESS STEEL
3. THE VALVE AND TEE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS.
4. THE PORT CAPS AND CHAINS SHALL BE PAINTED SILVER.
5. AUXILIARY VALVE SHALL BE FULL BODIED EPOXY COATED, NON-RISING STEM, RESILIENT WEDGE GATE VALVE WITH I-FLANGED END AND I-MECHANICAL JOINT END.

N.T.S.

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

FIRE HYDRANT INSTALLATION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	C.C.	03-07-07 PER COMMENTS	W-1
T:\ENGINEERING\STANDARDS	S.W.	08-15-08 EJIW WaterMaster.	
	K.R.G.	07-05-11 HYDRA-FINDER	
	K.A.G.	12-11-18 TRACER BOX	
	K.A.G.	1-13-21 MUELLER HYD. ONLY	



NOTE:

1. NOTIFY P/W UTILITY DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (847) 279-6900.
2. COORDINATE WATER SHUTDOWN WITH THE PUBLIC WORKS DEPARTMENT, EXCAVATE AREA AND DISCONNECT HYDRANT LEAD, PLATE TEE, BLOCK AND RESTRAIN.
3. RETURN HYDRANT, AUXILIARY VALVE AND BOX TO PUBLIC WORKS DEPARTMENT.
4. BACKFILL AND COMPACTION PER THE VILLAGE OF WHEELING'S STANDARD.
5. THE PLUG SHALL BE MECHANICAL JOINT.
6. ALL FASTENER HARDWARE (i.e., NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH THE PLUG SHALL BE STAINLESS STEEL.

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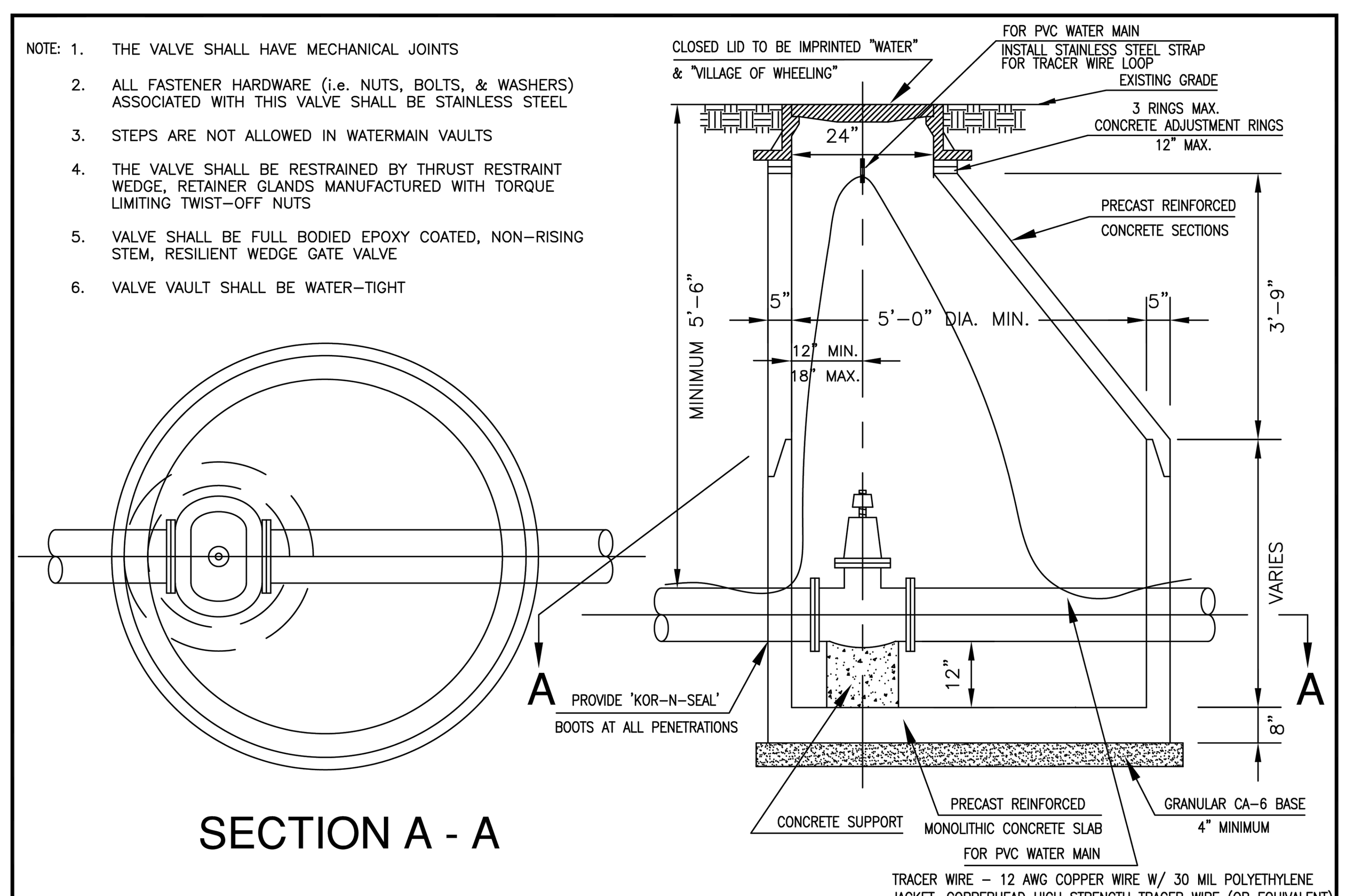
FIRE HYDRANT ABANDONMENT STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	R.A.	8-19-99	W-2
T:\ENGINEERING\STANDARDS	S.W.	3-2-00 AUTOCAD FILE	
	C.J.C.	9-11-06 AUTOCAD FILE	
	S.W.	01-24-07 PER COMMENTS	
	K.A.G.	11-21-16 CHANGE PHONE #	

NOTE:

1. THE VALVE SHALL HAVE MECHANICAL JOINTS
2. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, & WASHERS) ASSOCIATED WITH THIS VALVE SHALL BE STAINLESS STEEL
3. STEPS ARE NOT ALLOWED IN WATERMAIN VAULTS
4. THE VALVE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS
5. VALVE SHALL BE FULL BODIED EPOXY COATED, NON-RISING STEM, RESILIENT WEDGE GATE VALVE
6. VALVE VAULT SHALL BE WATER-TIGHT

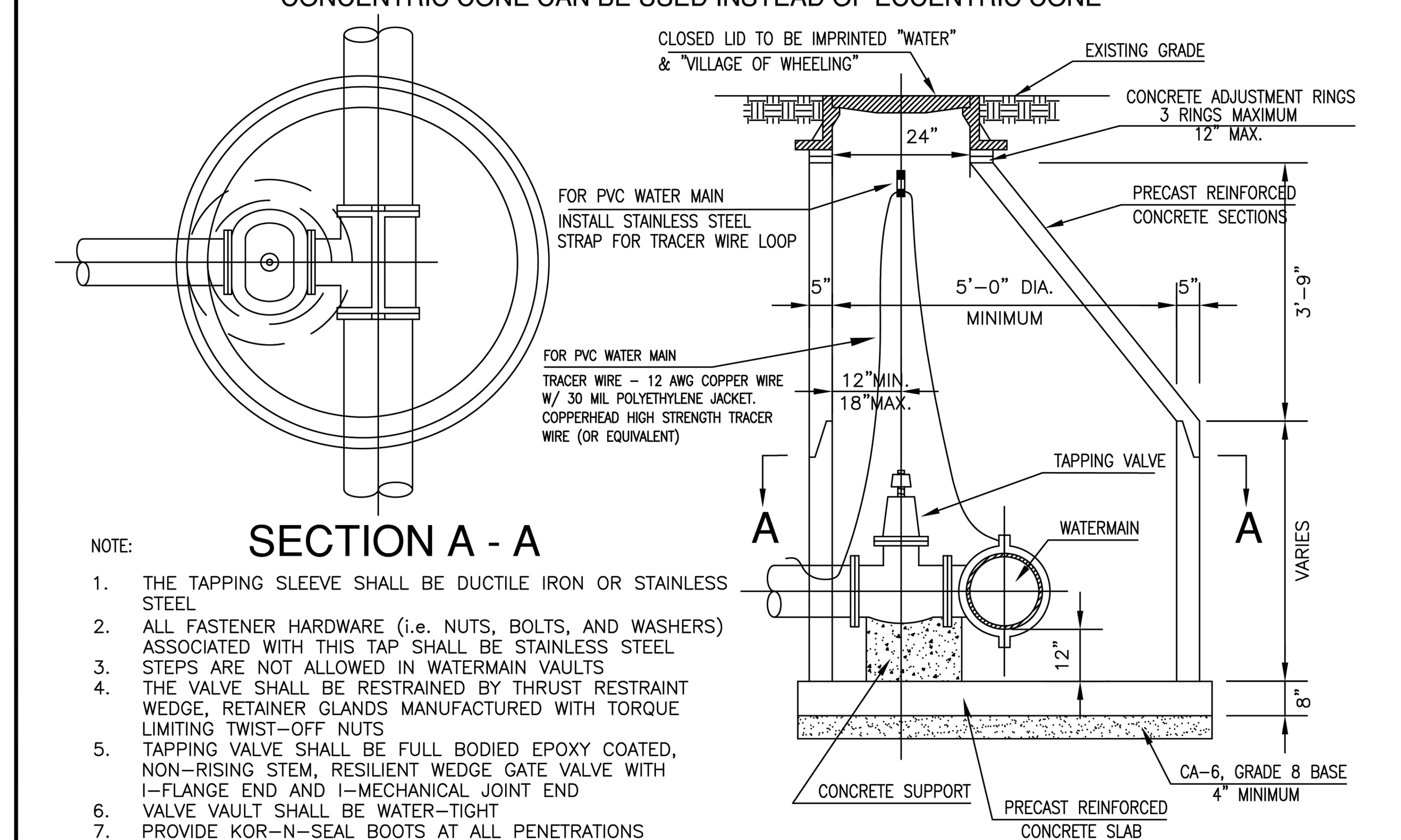


VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

5' DIA. VALVE VAULT STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	11-07-01 PER COMMENTS	W-3
T:\ENGINEERING\STANDARDS	C.C.	03-07-07 PER COMMENTS	
	K.R.G.	07-18-07 PER COMMENTS	
	K.A.G.	12-11-18 TRACER WIRE	

CONCENTRIC CONE CAN BE USED INSTEAD OF ECCENTRIC CONE



NOTE:

1. THE TAPPING SLEEVE SHALL BE DUCTILE IRON OR STAINLESS STEEL
2. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH THIS TAP SHALL BE STAINLESS STEEL
3. STEPS ARE NOT ALLOWED IN WATERMAIN VAULTS
4. THE VALVE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS
5. TAPPING VALVE SHALL BE FULL BODIED EPOXY COATED, NON-RISING STEM, RESILIENT WEDGE GATE VALVE WITH I-FLANGE END AND I-MECHANICAL JOINT END
6. VALVE VAULT SHALL BE WATER-TIGHT
7. PROVIDE KOR-N-SEAL BOOTS AT ALL PENETRATIONS

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

VALVE & TAPPING VAULT STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	4-12-00 AUTOCAD FILE	W-4
T:\ENGINEERING\STANDARDS	C.C.	03-07-07 PER COMMENTS	
	S.W.	08-15-08 CONCENTRIC CONE	
	K.A.G.	01-03-18 TRACER WIRE	

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CONSTRUCTION MANAGER
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Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

C32

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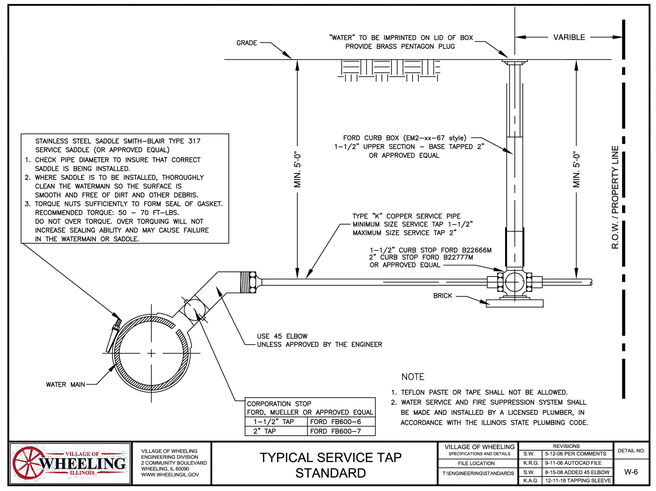
File Location: G:\5900\5987.151 Wheeling PD Aquatic Cntr\5987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pswiatek / PLOT DATE: 2/26/2026 3:51 PM BY: Brian Spencer

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR BLACK AND WHITE PRINTS



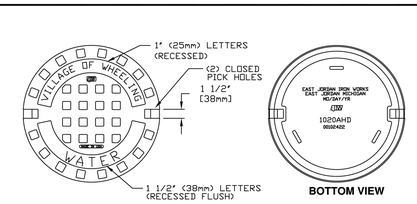
NOTE
1. TEFLON PASTE OR TAPE SHALL NOT BE ALLOWED.
2. WATER SERVICE AND FIRE SUPPRESSION SYSTEM SHALL BE MADE AND INSTALLED BY A LICENSED PLUMBER, IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

TYPICAL SERVICE TAP STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	5-12-06 PER COMMENTS	W-6
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	
	S.W.	8-15-06 ADDED 45 ELBOW	
	K.A.G.	12-11-18 TAPPING SLEEVE	



(*) or NEENAH CATALOG R-1713
SHOP DRAWING NF-1015 T46

√ MACHINED SURFACE

(*) EAST JORDAN IRON WORKS, INC.
P.O. BOX 439
EAST JORDAN, MI. 49727
1-800-874-4100
FAX 231-536-4458

DRAWN	DATE
SMH	11/11/02
APPROVED	DATE

SPECIAL LETTERED COVER

(*) PRODUCT NO.
00102422

CATALOG NO.
(*) **1020A**

REF. PRODUCT DRAWING
00102067

EST. WT.
COVER WT: 115 LBS (52kg)

OPEN AREA
N/A

MAT'L SPEC.
COVER – GRAY IRON ASTM A48 CL 35

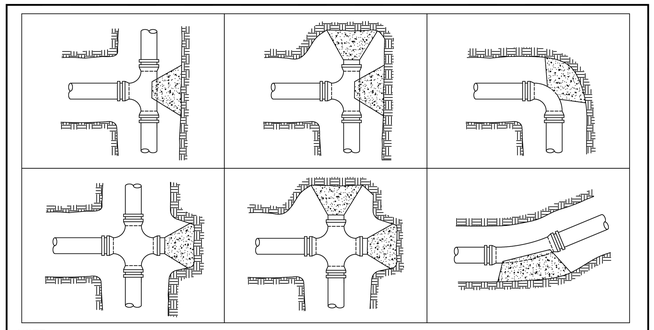
LOAD RATING
HEAVY DUTY

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

FRAME AND CLOSED LID WATER MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	2-24-00 AUTOCAD FILE	W-7
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	
	S.W.	11-13-07 ENPOSS PHASE II	
	S.W.	10-27-09 ADDING NEENAH	
	C.J.C.	01-29-08 AUTOCAD FILE	



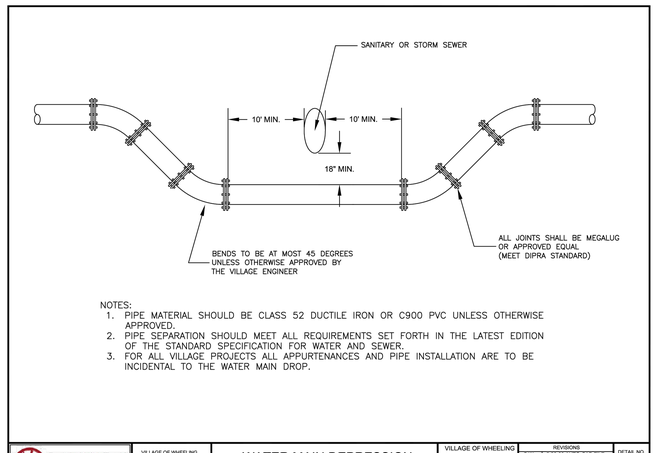
NOTE
1. ALL BLOCKING SHALL BE CONSTRUCTED WITH POURED CLASS SI CONCRETE AGAINST UNDISTURBED VERTICAL EARTH FACE WITH A MINIMUM WIDTH OF 12 INCHES.
2. RESTRAINED JOINTS AND THRUST BLOCKS TO BE USED AT ALL BENDS, AT TEES AND AT CROSSES AS SHOWN ABOVE, OR AS REQUIRED PER THE VILLAGE ENGINEER.
3. THE FITTINGS SHALL BE MECHANICAL JOINT.
4. OTHER METHODS MAY BE USED AS AN ALTERNATIVE WHEN APPROVED BY THE VILLAGE ENGINEER.
5. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH FITTINGS SHALL BE STAINLESS STEEL.
6. ALL FITTINGS SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS.

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

THRUST BLOCK STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	4-27-00 AUTOCAD FILE	W-8
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	
	T.W.M.	3-18-14 CONCRETE CLASS	



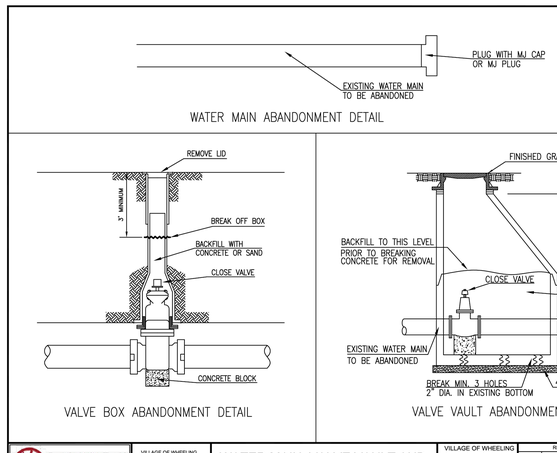
NOTES:
1. PIPE MATERIAL SHOULD BE CLASS 52 DUCTILE IRON OR C900 PVC UNLESS OTHERWISE APPROVED.
2. PIPE SEPARATION SHOULD MEET ALL REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE STANDARD SPECIFICATION FOR WATER AND SEWER.
3. FOR ALL VILLAGE PROJECTS ALL APPURTENANCES AND PIPE INSTALLATION ARE TO BE INCIDENTAL TO THE WATER MAIN DROP.

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

WATER MAIN DEPRESSION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	5-30-00 AUTO-CAD FILE	W-9
T:\ENGINEERING\STANDARDS	S.W.	5-11-06 PER COMMENTS	
	C.J.C.	01-20-08 AUTOCAD FILE	
	K.A.G.	01-21-20 NOTES	



WATER MAIN ABANDONMENT DETAIL

VALVE BOX ABANDONMENT DETAIL

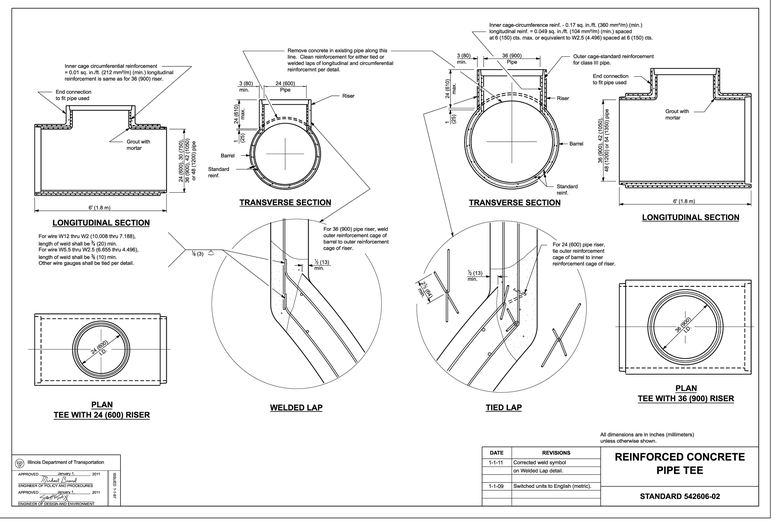
VALVE VAULT ABANDONMENT DETAIL

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

WATER MAIN, VALVE VAULT AND BOX ABANDONMENT DETAIL

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION			W-11
T:\ENGINEERING\STANDARDS			



All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: _____ DEVI L. _____ 2011
ENGINEER OF POLICY AND PROCEDURES

APPROVED: _____ DEVI L. _____ 2011
ENGINEER OF DESIGN AND ENVIRONMENT

STANDARD 542606-02

DATE	REVISIONS
1-1-11	Corrected weld symbol on Welded Lap detail.
1-1-09	Switched units to English (metric).

REINFORCED CONCRETE PIPE TEE

STANDARD 542606-02

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307 N Michigan Avenue #601
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920.887.7375

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Zion, IL 60099
847.478.9700

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NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

C33

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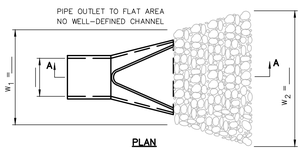
File Location: G:\5900\5987.151 Wheeling PD Aquatic Ctr\5987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pswatek / PLOT DATE: 2/26/2026 3:51 PM BY: Brian Spencer

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100% WHEN PRINTED CORRECTLY

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

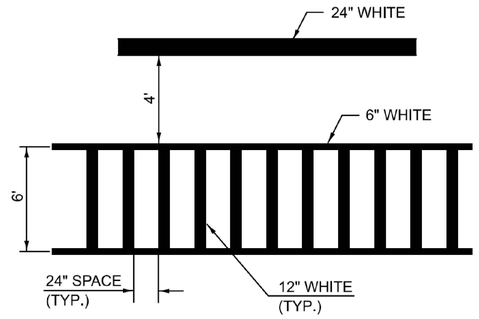
NOTES:

1. ALL GEOTEXTILE SHALL BE NON-WOVEN TABLE 1, CLASS 2 MATERIAL.
2. THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 61 LOOSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED.

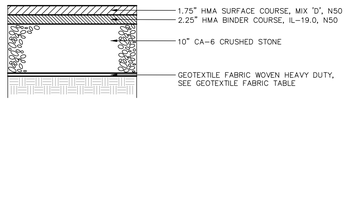


03.15.2016

GEWALT HAMILTON ASSOCIATES, INC. — PIPE OUTLET TO FLAT AREA



TYPICAL SPACING FOR CROSSWALKS & STOP BARS

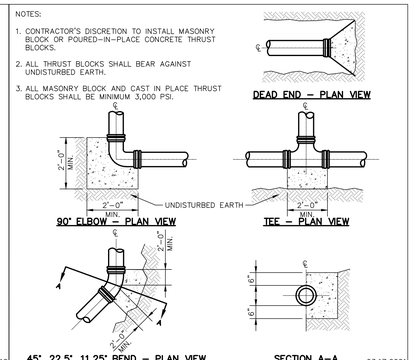


10.12.2018

GEWALT HAMILTON ASSOCIATES, INC. — NORMAL DUTY PAVEMENT DETAIL

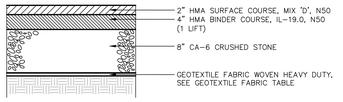
NOTES:

1. CONTRACTOR'S DISCRETION TO INSTALL MASONRY BLOCK OR POURED-IN-PLACE CONCRETE THRUST BLOCKS.
2. ALL THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
3. ALL MASONRY BLOCK AND CAST IN PLACE THRUST BLOCKS SHALL BE MINIMUM 3,000 PSI.



03.17.2021

GEWALT HAMILTON ASSOCIATES, INC. — THRUST BLOCKING

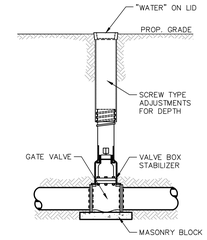


10.12.2018

GEWALT HAMILTON ASSOCIATES, INC. — HEAVY DUTY PAVEMENT DETAIL

NOTES:

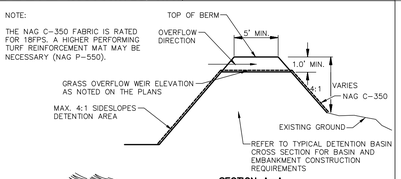
1. SEE WATER TABLE FOR FURTHER REQUIREMENTS.



03.17.2021

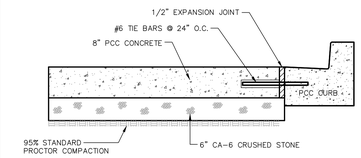
GEWALT HAMILTON ASSOCIATES, INC. — VALVE BOX

NOTE:
THE NAG C-350 FABRIC IS RATED FOR 18FPS. A HIGHER PERFORMING TURF REINFORCEMENT MAT MAY BE NECESSARY (NAG P-550).



03.15.2016

GEWALT HAMILTON ASSOCIATES, INC. — GRASS OVERFLOW WEIR DETAIL

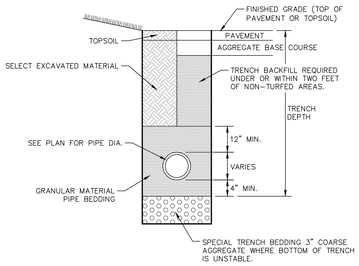


02.01.2021

GEWALT HAMILTON ASSOCIATES, INC. — PCC PAVEMENT DETAIL

NOTE:
SEE SANITARY TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.

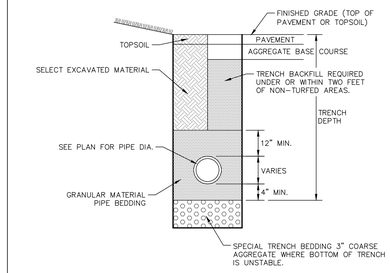


04.02.2021

GEWALT HAMILTON ASSOCIATES, INC. — SANITARY TRENCH DETAIL

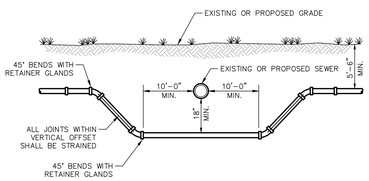
NOTE:
SEE WATER TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.



04.02.2021

GEWALT HAMILTON ASSOCIATES, INC. — WATER MAIN TRENCH

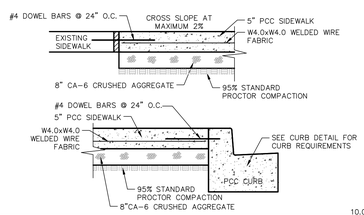


04.02.2021

GEWALT HAMILTON ASSOCIATES, INC. — HORIZONTAL WATER MAIN SEPARATION

NOTES:

1. SET 1/2" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 60' MAX. INTERVALS.
2. CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVE A 1/4" RADIUS.
3. SIDEWALK WIDTH AS SHOWN ON PLANS.
4. SIDEWALK JOINTS SHALL MATCH CURB CONTROL AND CONSTRUCTION JOINTS.
5. W4.0xW4.0 WELDED WIRE FABRIC SHALL BE INSTALLED ON CHAIRS/SHOES PRIOR TO POURING OF CONCRETE.

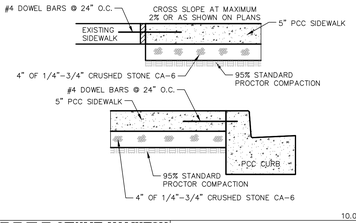


10.05.2021

GEWALT HAMILTON ASSOCIATES, INC. — PCC SIDEWALK DETAIL WITH WELDED WIRE FABRIC

NOTES:

1. SET 1/2" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 60' MAX. INTERVALS.
2. CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVE A 1/4" RADIUS.
3. SIDEWALK WIDTH AS SHOWN ON PLANS.
4. SIDEWALK JOINTS SHALL MATCH CURB CONTROL AND CONSTRUCTION JOINTS.

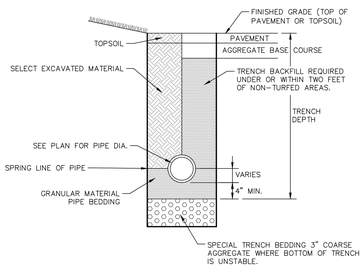


10.05.2021

GEWALT HAMILTON ASSOCIATES, INC. — PCC SIDEWALK DETAIL

NOTE:
SEE STORM TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.



04.02.2021

GEWALT HAMILTON ASSOCIATES, INC. — STORM TRENCH DETAIL RIGID PIPE INSTALLATION

VERTICAL SEPARATION REQUIREMENTS

CROSSING	REQUIRED VERTICAL SEPARATION	ADDITIONAL REQUIREMENTS (SELECT ONE)
WATER OVER SEWER	WATER INVERT >18" ABOVE CROWN OF SEWER.	**VERTICAL SEPARATION < 18"** 1. WATER OR SEWER TO BE ENCASED FOR A MINIMUM DISTANCE OF 10' FROM THE EDGE OF PIPE, ON EITHER SIDE, PERPENDICULAR TO THE CROSSING. 2. SEWER TO BE WATER MAIN CLASS PIPE FOR A DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING.
SEWER OVER WATER	SEWER INVERT >18" ABOVE CROWN OF WATER. (SEWER INVERT < 18" ABOVE CROWN OF WATER NEVER ALLOWED)	**VERTICAL SEPARATION < 18" (NEVER ALLOWED)** 1. WATER OR SEWER TO BE ENCASED FOR A MINIMUM DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING. 2. SEWER TO BE WATER MAIN CLASS PIPE FOR A DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING.

NOTES:

1. SEE WATER TABLE FOR FURTHER MATERIAL REQUIREMENTS.
2. SEPARATION REQUIREMENTS APPLY TO BOTH EXISTING AND PROPOSED WATER MAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER, AND ALL SERVICE CONNECTIONS.
3. WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS, SEEPAGE BEDS, AND LIFT STATIONS BY A MINIMUM OF 25'.

HORIZONTAL SEPARATION REQUIREMENTS

REQUIRED HORIZONTAL SEPARATION	ADDITIONAL REQUIREMENTS
10' OF LATERAL SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE.	**HORIZONTAL SEPARATION < 10'** 1. WATER INVERT 18" ABOVE CROWN OF SEWER. **HORIZONTAL SEPARATION < 10' & VERTICAL SEPARATION < 18"** 2. SEWER CONSTRUCTED WITH WATER MAIN CLASS PIPE (SEE VERTICAL SEPARATION REQUIREMENTS) AND PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE PRIOR TO BACKFILLING.

RESTRAINED LENGTH TABLE

TYPE OF FITTING	RESTRAINED LENGTH (EACH WAY)
TEE AND PLUG	LENGTH OF TEE
90° BEND	18'-0"
45° BEND	8'-0"
22 1/2° BEND	4'-0"
11 1/4° BEND	2'-0"

LOCKING GASKET LENGTH TABLE

TYPE OF BEND/FITTING	DISTANCE FROM BEND/FITTING (EACH WAY)
45° HORIZONTAL BEND	15'-0"
22.5° HORIZONTAL BEND	10'-0"
45° VERTICAL OFFSET	25'-0"
TEES	PROVIDE THRUST BLOCK
PRESSURE CONNECTION	PROVIDE THRUST BLOCK
END CAPS	PROVIDE THRUST BLOCK

04.02.2021

GEWALT HAMILTON ASSOCIATES, INC. — WATER MAIN INSTALLATION AND SEPARATION REQUIREMENTS

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LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

DETAILS

C34

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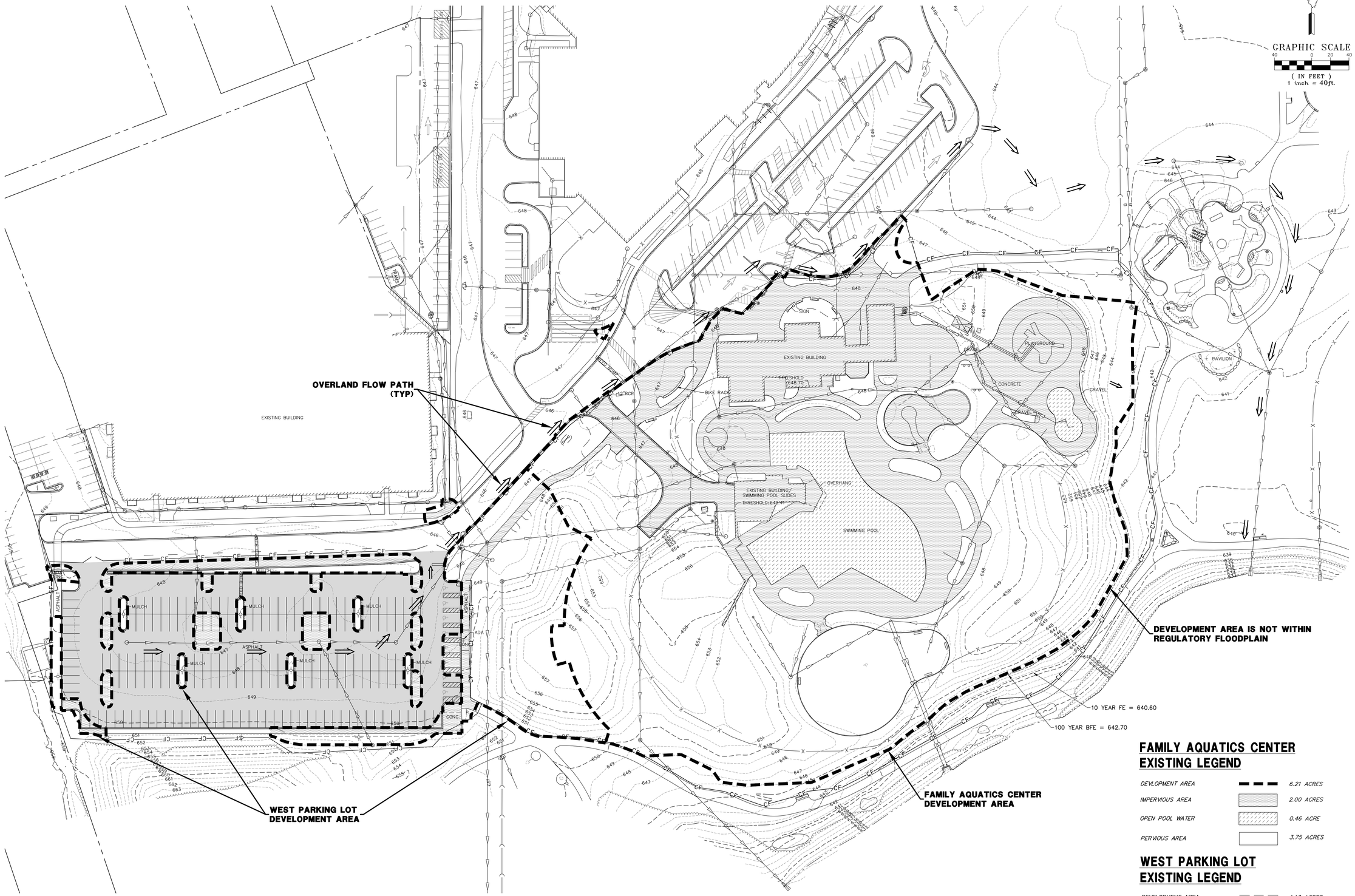

FAMILY AQUATICS CENTER EXISTING LEGEND

DEVLOPMENT AREA	6.21 ACRES
IMPERVIOUS AREA	2.00 ACRES
OPEN POOL WATER	0.46 ACRE
PERVIOUS AREA	3.75 ACRES

WEST PARKING LOT EXISTING LEGEND

DEVELOPMENT AREA	1.13 ACRES
IMPERVIOUS AREA	0.35 ACRE
PERVIOUS AREA	0.78 ACRE
MAINTENANCE AREA	1.46 ACRES
OVERLAND FLOW ROUTE	

EXISTING LAKE HERITAGE DETENTION DATA

TOTAL DRAINAGE AREA = 57.5 AC

FOR WHEELING PARK DISTRICT:
EXISTING EXCESS DETENTION STORAGE = 0.78 AC-FT

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS. IF PRINTED CORRECTLY

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING DRAINAGE EXHIBIT

C35

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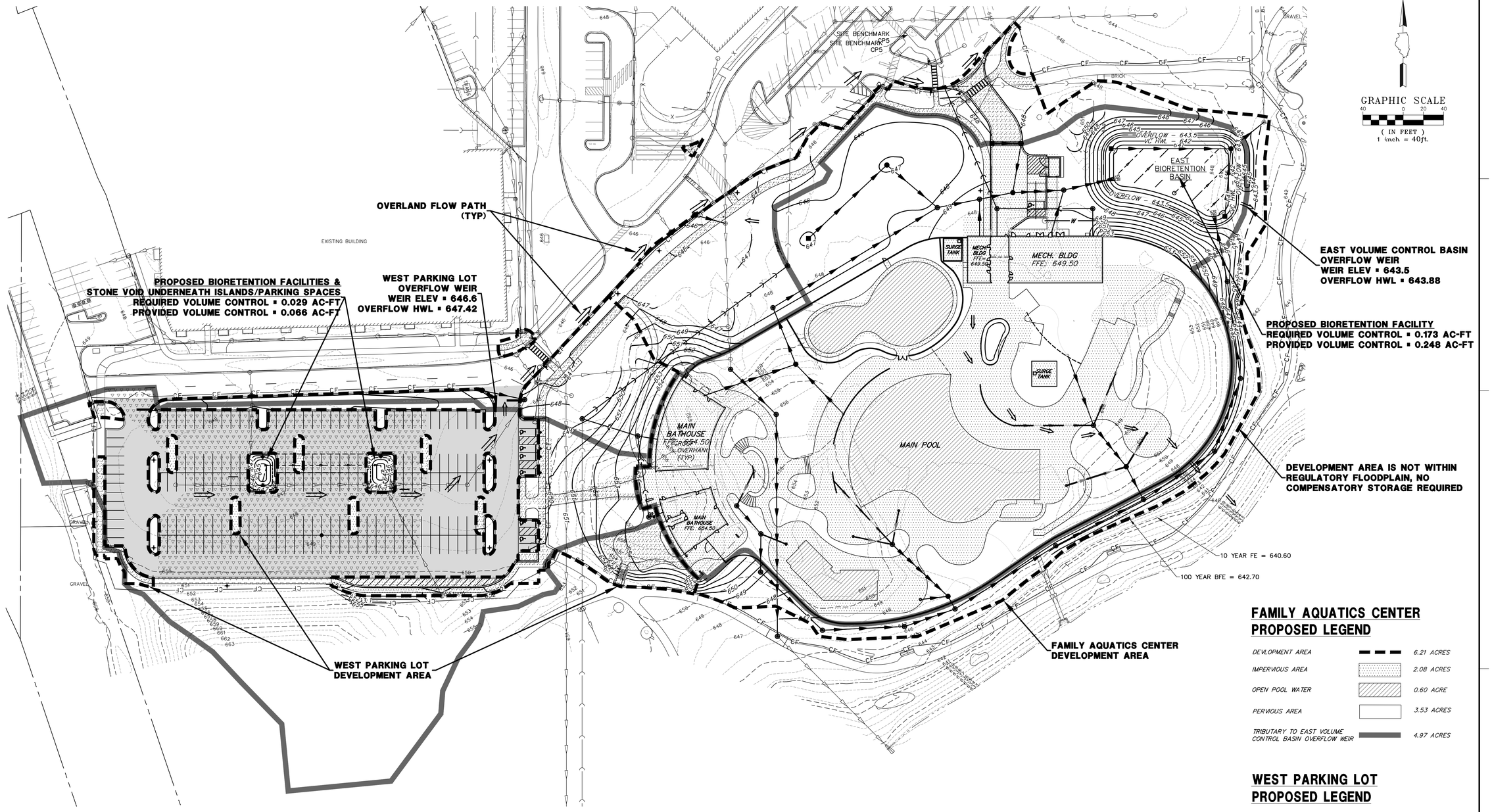

EXISTING LAKE HERITAGE DETENTION DATA

TOTAL DRAINAGE AREA = 57.5 AC

FOR WHEELING PARK DISTRICT:
EXISTING EXCESS DETENTION STORAGE = 0.78 AC-FT
2025 ADDITIONAL REQUIRED DETENTION STORAGE = 0.72 AC-FT
EXCESS STORAGE AFTER 2025 PROJECT = 0.06 AC-FT

MAINTENANCE PLAN FOR WHEELING PARK DISTRICT

Wheeling Park District with facilities as shown on this exhibit, shall assume responsibility for the following perpetual maintenance activities:

1. General
Regular inspections and routine maintenance of general areas shall be performed on a quarterly or as-needed basis. Specific items of concern include:
- Litter and debris shall be controlled
- Landscaped areas shall be maintained with regular mowing and restored with appropriate seeding/vegetation as necessary
- Accumulated sediment shall be disposed of properly, along with any wastes generated during maintenance operations
- Riprap areas shall be repaired with the addition of new riprap, as necessary, of similar size and shape
- Roads shall be swept, vacuumed and/or washed on a regular basis

2. Volume Control Facility
Routine inspections and maintenance of volume control facilities shall be performed by the Owner on a yearly or as-needed basis. Specific items of concern include:
- Facility shall be inspected yearly to verify the system is functioning properly.
- Accumulated sediment from surface shall be vacuumed out and disposed of properly.

Vegetated Areas
- Regular mowing to control vegetation, no cutting of native vegetation
- Need for planting, reseeding or sodding. Supplement alternative native vegetation if a significant portion has not established (50% of the surface area). Reseed with alternative grass species if original grass cover has not successfully established
- Evidence of grazing, motorbikes or other vehicles, repair
- Check for invasive vegetation, remove where possible
- All vegetation must be maintained per the approved planting plan

3. Stormwater Collection System
The Owner shall perform two inspections per year of all components of the stormwater collection system. The inspections shall occur in the spring and fall of each year and include the following specific areas of concern.

Storm Inlets/Manholes
- Remove accumulated leaves and other debris from grates
- Reset covers/lids on as-needed basis
- Remove accumulated sediment from manhole bottom when 50% of sump is filled

Storm Sewers
- Visually inspect pipes by removing manhole lids, make repairs as necessary
- Storm sewers shall be checked for siltation deposits at inlets, outlets, and within the conduit, clean out as necessary
- Replant and reseed any eroded areas
- Restore riprap at outfalls if erosion observed

4. Overflow Weirs
- Annual visual inspections shall be performed that verify the design capacity of the overflow weir is maintained
- Remove any obstructions that have been placed in the drainage path
- Regrade to provide positive drainage as necessary

5. Vegetated Areas
- Need for planting, reseeding, or sodding. Supplement alternative native vegetation if a significant portion has not established (50% of the surface area after second growing season). Reseed with alternative native grass species if original grass cover has not successfully established.
- Evidence of grazing, motorbikes, or other vehicles, repair
- Check for invasive vegetation, remove when possible
- Regular mowing to control vegetation; it is recommended that native vegetation remain uncut
- Dead or damaged non-native grassy areas - repair with seeding with fertilization or seeding with mulch

6. Qualified Sewer Construction
- Perform manhole inspections once every five years, make repairs as necessary
- Perform sewer inspections once every five years, make repairs as necessary
- Perform regular cleaning so that each sewer segment is cleaned once every 5 years

FAMILY AQUATICS CENTER PROPOSED LEGEND

DEVLOPMENT AREA	6.21 ACRES
IMPERVIOUS AREA	2.08 ACRES
OPEN POOL WATER	0.60 ACRE
PERVIOUS AREA	3.53 ACRES
TRIBUTARY TO EAST VOLUME CONTROL BASIN OVERFLOW WEIR	4.97 ACRES

WEST PARKING LOT PROPOSED LEGEND

DEVELOPMENT AREA	1.13 ACRES
IMPERVIOUS AREA	0.35 ACRE
PERVIOUS AREA	0.78 ACRE
MAINTENANCE AREA	1.46 ACRES
TRIBUTARY TO WEST PARKING LOT OVERFLOW WEIR	3.17 ACRES
DEVELOPMENT IMPERVIOUS AREA NOT TRIBUTARY TO VOLUME CONTROL	0.44 ACRE
TRADEOFF IMPERVIOUS AREA TO VOLUME CONTROL	0.94 ACRE
OVERLAND FLOW ROUTE	

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847.478.9700

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

PROPOSED DRAINAGE EXHIBIT

C36

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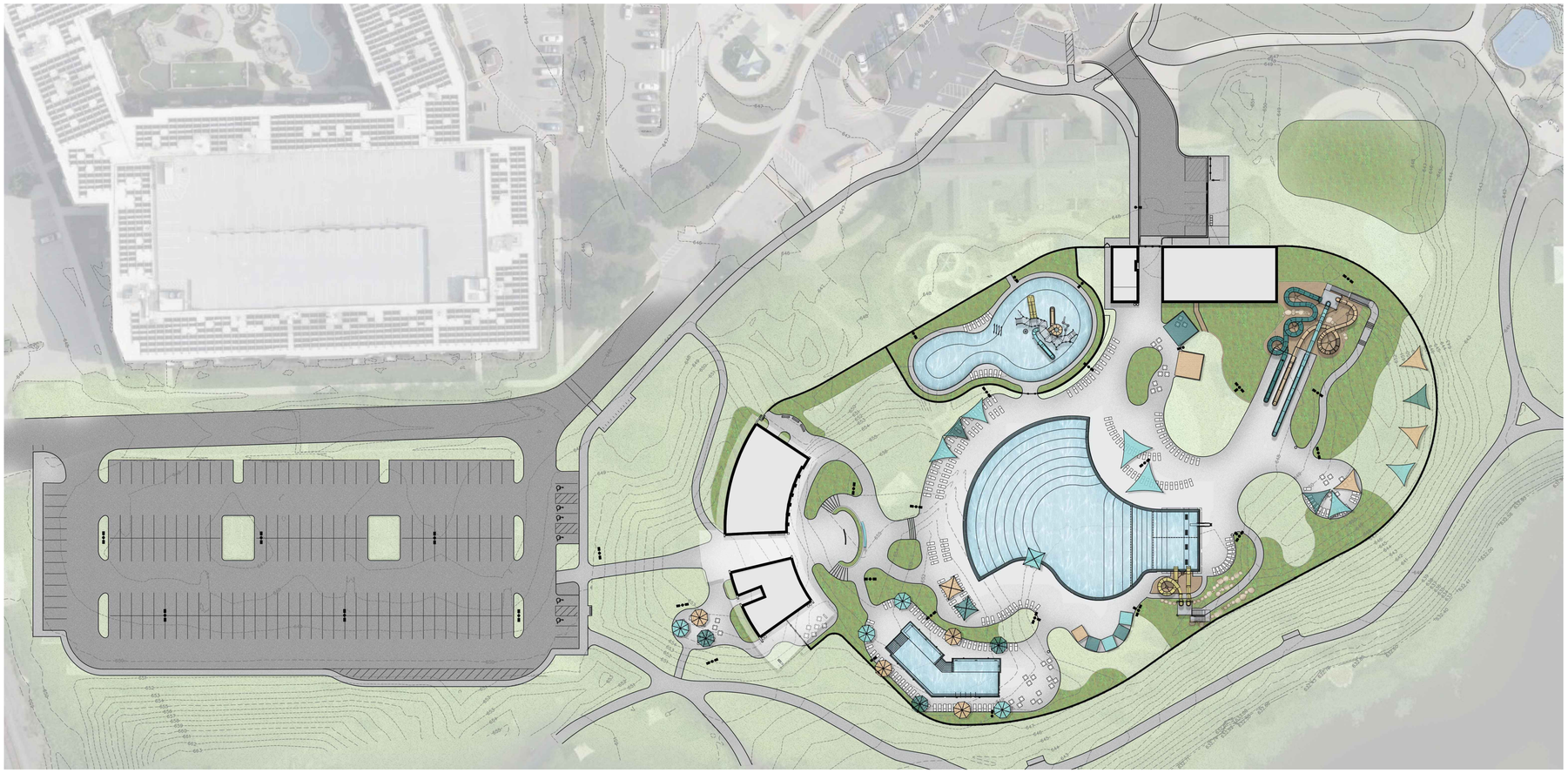
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOTTED SCALE.
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REFERENCE.
File Location: G:\950\50987 151 Wheeling PD Aquatic Cntr\Drainage\50987 151 DRAINAGE EXHIBIT / SAVE DATE: 2/26/2026 11:29 AM BY: pwindale / PLOT DATE: 2/26/2026 3:51 PM BY: Brian Spencer

WHEELING PARK DISTRICT AQUATICS CENTER

WHEELING PARK DISTRICT

105 COMMUNITY BLVD
Wheeling, IL



NOTE: THE ABOVE SITE RENDERING IS PROVIDED FOR DESIGN INTENT ONLY. FINAL LAYOUT AND DESIGN MAY VARY FROM RENDERING.

DESIGN DISCLAIMER

THESE PLANS ARE INTENDED SOLELY FOR THE WHEELING PARK DISTRICT AQUATICS CENTER AT HERITAGE PARK LOCATED AT 105 COMMUNITY BLVD, WHEELING IL 60090. THEY MAY NOT BE REPRODUCED, DISTRIBUTED, UPLOADED TO ARTIFICIAL INTELLIGENCE PLATFORMS, OR ALTERED IN ANY FORM WITHOUT THE EXPRESS WRITTEN CONSENT OF THE PROJECT TEAM LISTED ON THIS COVER SHEET. UNAUTHORIZED USE, INCLUDING USE OF ARTIFICIAL INTELLIGENCE TO ANALYZE, INTERPRET, MODIFY, OR GENERATE DERIVATIVE WORKS, IS STRICTLY PROHIBITED.

BID PACKAGE COORDINATION

THIS PROJECT IS BEING ISSUED AND BID IN MULTIPLE BID PACKAGES. THE CONTRACT DOCUMENTS ASSOCIATED WITH THIS PACKAGE REPRESENT A PORTION OF THE OVERALL PROJECT SCOPE. ALL BID PACKAGES COLLECTIVELY CONSTITUTE A SINGLE, COHESIVE PROJECT.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW, COORDINATE, AND VERIFY ALL APPLICABLE CONTRACT DOCUMENTS ACROSS ALL BID PACKAGES, INCLUDING DRAWINGS, SPECIFICATIONS, ADDENDA, AND RELATED DOCUMENTS. THE CONTRACTOR SHALL ENSURE THAT THE WORK INCLUDED IN THIS PACKAGE IS COORDINATED WITH WORK SHOWN OR SPECIFIED IN PREVIOUSLY ISSUED BID PACKAGES FOR THIS PROJECT.

FAILURE TO REVIEW AND COORDINATE THE FULL SET OF CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING A COMPLETE, COORDINATED, AND FUNCTIONAL PROJECT.

AQUATIC STRUCTURAL ENGINEER
GRAEF
116 S ADAMS STREET, SUITE 201
GREEN BAY, WI 54301
PH: (920) 592-9442
BEAU SANDERS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED STRUCTURAL ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JULY 8, 2009
SHEETS COVERED BY SEAL: "PL"

AQUATIC DESIGN
WATER TECHNOLOGY INC (WTI)
100 PARK AVENUE
BEAVER DAM, WI 53916
PH: (920) 887-7371
BRIAN FREBER

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: MARCH 4, 2010
SHEETS COVERED BY SEAL: "PL"

ELECTRICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
PAUL SILIUNAS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE:
SHEETS COVERED BY SEAL: "E"

PLUMBING & MECHANICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
RYAN SPAULDING

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DATE
REGISTRATION ISSUANCE DATE: JAN 4, 2011
SHEETS COVERED BY SEAL: "P" AND "M"

STRUCTURAL ENGINEER
McCLUSKEY ENGINEERING
1887 HIGH GROVE LN
NAPERVILLE, IL 60540
PH: (630) 717-5395
ANDREW ECK

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED STRUCTURAL ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JUN 21, 2004
SHEETS COVERED BY SEAL: "S"

ARCHITECT
LEGAT ARCHITECTS, INC.
49 W RANDOLPH ST
CHICAGO, IL 60601
PH: (312) 258-9595
TED HAUG

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SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: DEC 20, 1985
SHEETS COVERED BY SEAL: "A"

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC
625 FOREST EDGE DRIVE
VERNON HILLS, IL 60061
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DON MATTHEWS

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REGISTRATION ISSUANCE DATE: FEB 9, 1993
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TERRY BERKBUEGLER

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CONFLUENCE

SHEET INDEX

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G100	COVER SHEET
	LANDSCAPE SHEETS
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L202	TREE MITIGATION PLAN
L300	HARDSCAPE PLAN
L301	HARDSCAPE PLAN
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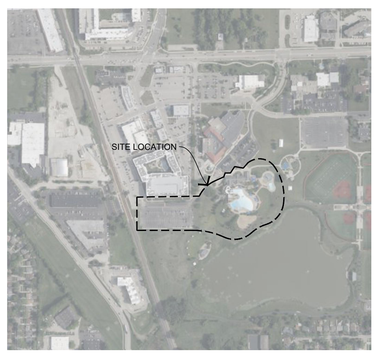
L503	PLANTING PLAN
L510	IRRIGATION PLAN
L511	IRRIGATION PLAN
L512	IRRIGATION PLAN
L700	SITE DETAILS
L701	SITE DETAILS
L800	PLANTING DETAILS

VICINITY MAP



ISSUED FOR MAJOR SITE PLAN RESUBMITTAL #1

MAR 5, 2026

811 Know what's below. Call before you dig.

COVER SHEET

CONFLUENCE PROJECT # 25070

G000

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GENERAL NOTES

A. THE CONTRACTOR SHALL NOTIFY THE 811 ONE CALL CENTER TO REQUEST THE LOCATION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES NOT COVERED BY 811 ONE CALL. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

B. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONDITIONS, IMPROVEMENTS, VEGETATION AND UTILITIES TO REMAIN. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.

C. THE CONTRACTOR SHALL CONSTRUCT ALL ITEMS WITHIN THIS CONTRACT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, REGULATIONS AND ENGINEERING STANDARDS. CONTRACTOR TO COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY OR STREETS WITH THE APPROPRIATE JURISDICTIONS.

D. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

DEMOLITION GENERAL NOTES

A. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANIES REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DAMAGE TO EXISTING UTILITIES PRIOR TO REPAIR. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER OF THE UTILITY.

B. FIELD VERIFY EXISTING GRADES AND LOCATIONS OF EXISTING UTILITIES, CONDUIT, LINES, POLES, TREES, PAVING, BUILDING AND OTHER SITE STRUCTURES PRIOR TO DEMOLITION OR CONSTRUCTION AND IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. THE CONTRACTOR SHALL REPORT TO THE OWNER ANY DAMAGE TO OWNER'S PROPERTY PRIOR TO REPAIR.

C. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

D. CONTACT THE LANDSCAPE ARCHITECT PRIOR TO REMOVING ANY PLANT MATERIAL NOT INDICATED TO BE PROTECTED OR REMOVED.

E. CONTRACTOR TO PROVIDE ADEQUATE BARRICADES AND TRAFFIC CONTROL. COMPLY WITH REQUIREMENTS OF LOCAL JURISDICTION.

F. CONTRACTOR SHALL SAW CUT ALL ASPHALT OR CONCRETE TO BE REMOVED TO THE NEAREST CONTROL JOINT WHERE PRACTICAL.

G. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

UTILITY GENERAL NOTES

A. DEWATERING (IF REQUIRED) IS CONSIDERED AN INCIDENTAL EXPENSE. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEWATERING.

B. COORDINATE INSPECTIONS FOR CONNECTIONS TO PUBLIC WATER, SANITARY, AND STORM SEWER WITH THE APPROPRIATE JURISDICTIONS.

C. INSTALL TEMPORARY INLET PROTECTION AROUND ALL PERMANENT STORM SEWER INLETS IN COMPLIANCE WITH LOCAL SWPPP REQUIREMENTS.

D. CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISH GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES AND LIGHT BASES.

E. FOR PATCHING USE PAVEMENT MIX PER VILLAGE OF WHEELING STANDARD SPECIFICATIONS.

ABBREVIATIONS

(ALL MIGHT NOT BE USED)

A	
ABRV	ABBREVIATION
ALN	ALIGN
ALW	ALLOWANCE
APPROX	APPROXIMATE
ARCH	ARCHITECT
AVE	AVERAGE
B	
B&B	BALLED AND BURLAPPED
BC	BOTTOM OF CURB
BLDG	BUILDING
BOC	BACK OF CURB
BOF	BOTTOM OF FOOTING
BW	BOTTOM OF WALL (@ FS)
BWS	BOTH WAYS
C	
CAL	CALIPER
CF	CUBIC FEET
CIP	CAST IN PLACE
CL	CENTER LINE
CLR	CLEAR
CO	CLEANOUT
CONT	CONTINUOUS
CY	CUBIC YARD
D	
DBH	DIA AT BREAST HT
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
DWG	DRAWING
E	
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ENG	ENGINEER
EQ	EQUAL
EST	ESTIMATE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
F	
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEV
FG	FINISHED GRADE
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISHED SURFACE
FT	FEET
FTG	FOOTING
G	
GA	GAUGE
GEN	GENERAL
H	
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDED
J	
JT	JOINT
K	
NONE	
L	
LF	LINEAR FEET
LP	LOW POINT
M	
MAX	MAXIMUM
MANU	MANUFACTURER
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
N	
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	
PC	POINT OF CURVE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PT	POINT
PVC	POLY VINYL CHLORIDE
Q	
QTY	QUANTITY
R	
R	RADIUS
REC	RECOMMENDATION
RE	REFERENCE
REINF	REINFORCE
R-EJ	REINFORCED EXPANSION JT
REQD	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
S	
S	SOUTH
SAN	SANITARY
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
ST	STORM SEWER
SY	SQUARE YARD
STA	STATION
STD	STANDARD
SYM	SYMMETRICAL
SQ	SQUARE
T	
T&B	TOP AND BOTTOM
TBD	TO BE DETERMINED
TC	TOP OF CURB
TD	TOP OF DRAIN
TH	THICK
TOF	TOP OF FOOTING
TOPO	TOPOGRAPHY
TW	TOP OF WALL
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VAR	VARIES
VOL	VOLUME
W	
W	WITH
W/O	WITHOUT
WT	WEIGHT
WWM	WELDED WIRE MESH
X	
NONE	
Y	
YD	YARD
Z	
NONE	

LINE SYMBOL LEGEND

- LIMIT OF WORK
- EASEMENT
- SETBACK
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- COMMUNICATIONS
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- SANITARY SEWER
- STORM SEWER
- UNDERDRAIN
- TELEPHONE
- WATER
- SILT FENCE
- FENCE, TYPE 1
- FENCE, TYPE 2
- FENCE, TYPE 3

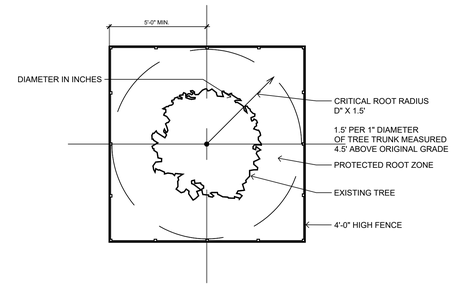
DRAWING SYMBOLS

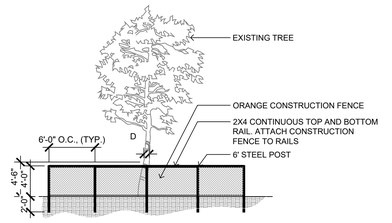
(NOT ALL ARE USED)

- SECTION
- ELEVATION
- TEXT MULTILEADER (MULTILEADER STD.)
- GRADING MULTILEADER (XX ###.#)
- DETAIL MULTILEADER (DETAIL NAME ## L-##)
- CONTOUR ELEVATION (###)
- CENTER POINTS
- SLOPE (#.#%)
- COORDINATE TAGS (N.#### E.####)
- ELEVATION (XXXX.XX / X'XXXX)
- PLANT TAG (QTY ## / ABBREVIATION XX)
- KEYNOTE (#)
- DIMENSION (#'-##")
- RADIUS DIMENSION (R##)
- ANGLE DIMENSION (##°)
- REVISION TRIANGLE (ISSUE NO.)
- XX / L-XX
- XX / L-XX
- A
- ℄
- # SHEET TITLE N.T.S

SCALE: 1"=10'

0' 5' 10' 20'





1 / L100 TREE PROTECTION FENCE TYP NTS

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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

GENERAL NOTES

L100

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IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, IF THIS SHEET IS ORIGINAL SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ON ORIGINAL SHEET

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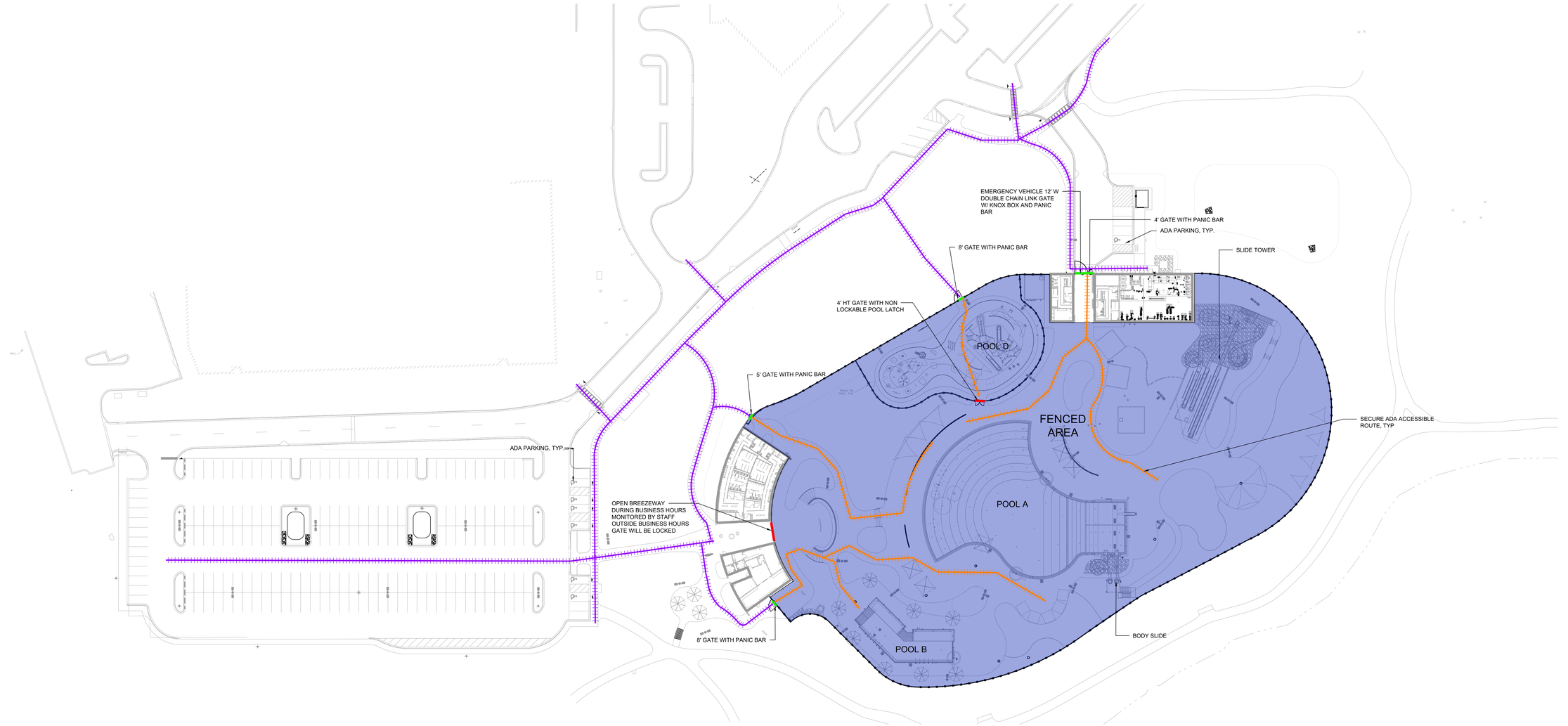

1 L110 POOL DECK EGRESS PLAN

0' 20' 40' 80'

POOL DECK LEGEND

- LOCK GATE
- PANIC GATE
- ROW PATH
- SECURE PATH

POOL DECK EGRESS CODE

A. THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.

B. KEY REQUIREMENTS FOR OUTDOOR POOL EGRESS

1. OCCUPANCY LOAD
   1.1. TOTAL BATHERS: 2,847.

2. NUMBER OF EXITS (GATES)
   2.1. BASED ON IBC TABLE 1006.3.3:
   2.2. FOR 2,847 BATHERS : MINIMUM 5 EXITS (GATES) REQUIRED.

3. EXIT WIDTH
   3.1. AREA A (2847 BATHERS): 2847 × 0.15 = 428 INCHES

4. TRAVEL DISTANCE TO EXITS
   4.1. MAXIMUM TRAVEL DISTANCE:
      4.1.1. 200 FEET IF UNSPRINKLERED.
      4.1.2. 250 FEET IF SPRINKLERED.

5. GATE FEATURES
   5.1. ALL GATES MUST:
      5.1.1. SWING OUTWARD IN THE DIRECTION OF EGRESS.
      5.1.2. BE EQUIPPED WITH PANIC HARDWARE FOR QUICK EXIT.
      5.1.3. BE ADA-COMPLIANT:
         5.1.3.1. MINIMUM WIDTH: 36 INCHES PER GATE.
         5.1.3.2. OPERABLE PARTS MUST NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING.

B. SUMMARY FOR WHEELING PARKS DISTRICT PROJECT:

1. AREA A (2847 BATHERS):
NUMBER OF GATES: 5 GATES; 1 144 IN. WIDE, 2 96 IN. WIDE, 1 60 IN. WIDE, 1 48 INCHES WIDE.

2. ALL CHAIN LINK GATES WILL BE 6' HT WITH PANIC, SWINGING OUT

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VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
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Date	2026-03-05

POOL DECK EGRESS PLAN

L110

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1 L200 TREE MITIGATION PLAN - AREA A

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L200 SHEET LOCATION KEY

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WHEELING PARK DISTRICT AQUATICS CENTER

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105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBBMITTAL #1
Date	2026-03-05

TREE MITIGATION PLAN

L200

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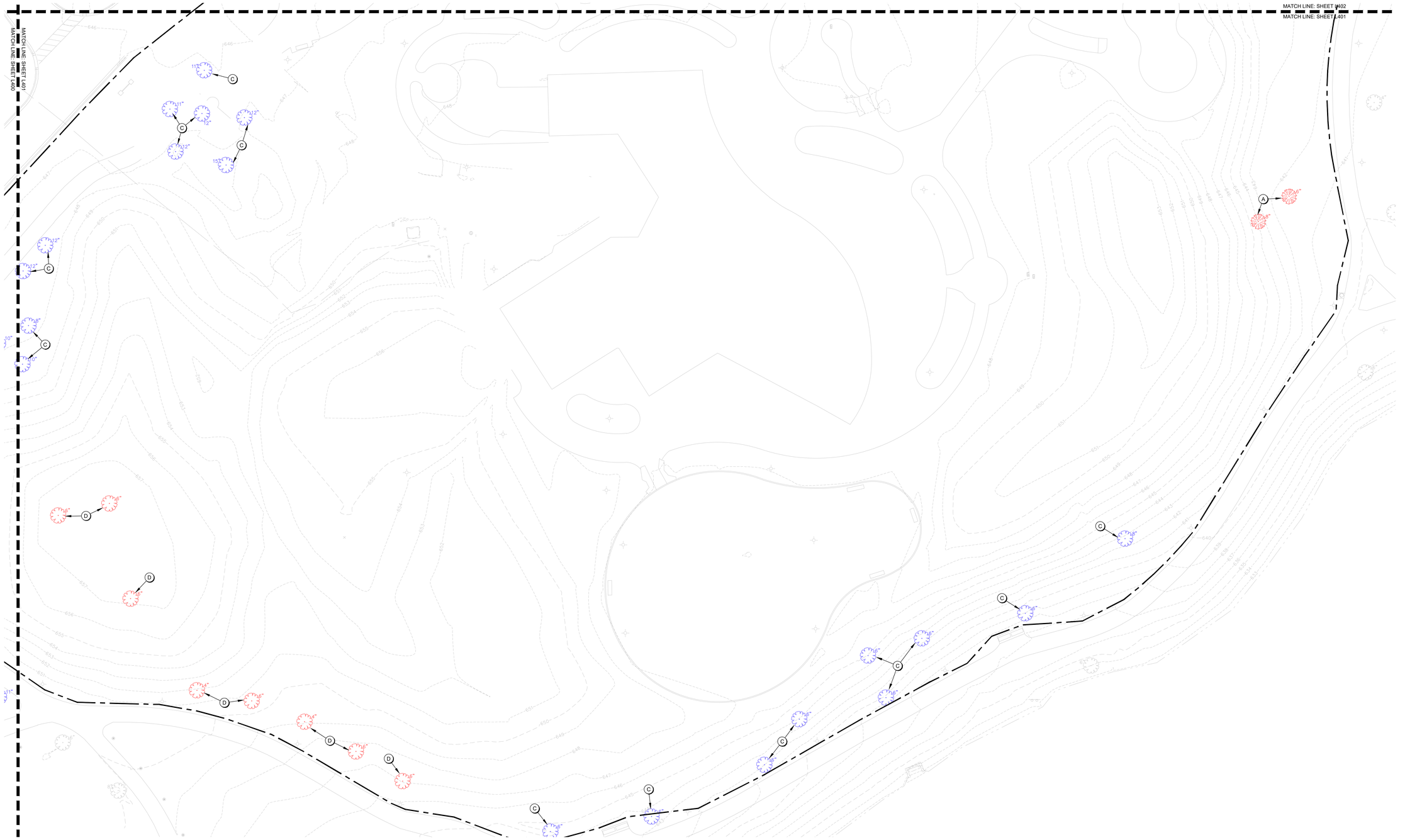

1 L201 TREE MITIGATION PLAN - AREA B

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L201 SHEET LOCATION KEY

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Date	2026-03-05

TREE MITIGATION PLAN

L201

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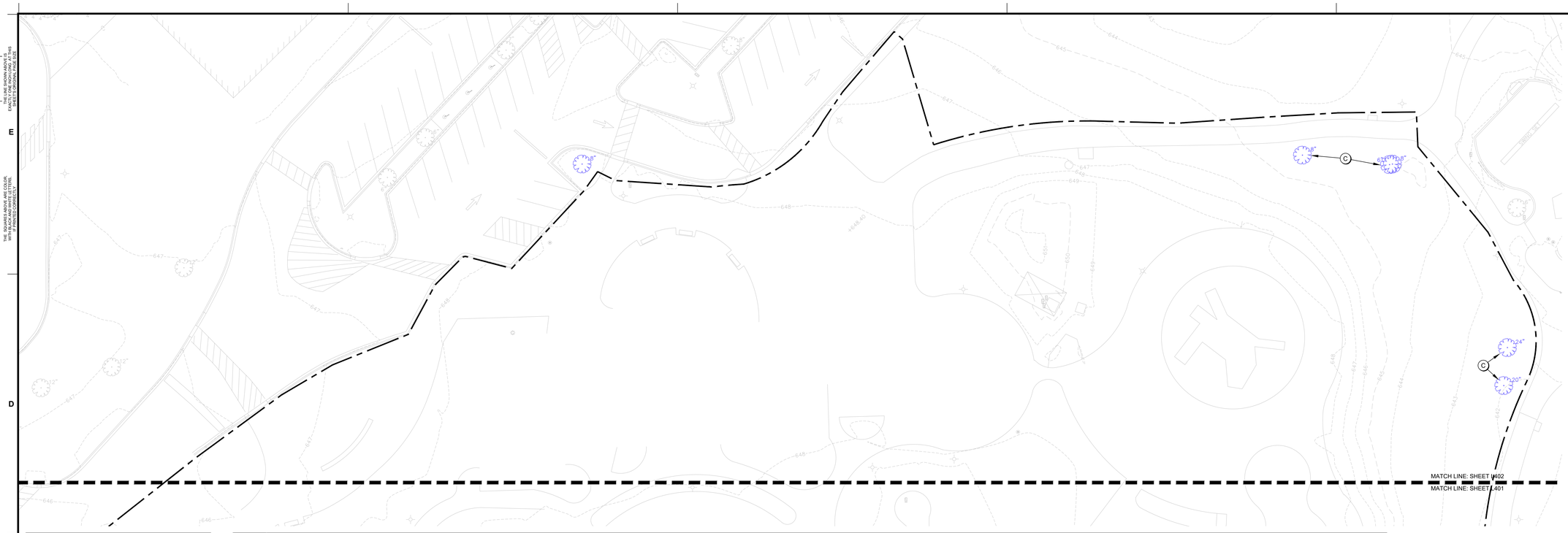

1 L202 TREE MITIGATION PLAN - AREA C

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L202 SHEET LOCATION KEY

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VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
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Date	2026-03-05

TREE MITIGATION PLAN

L202

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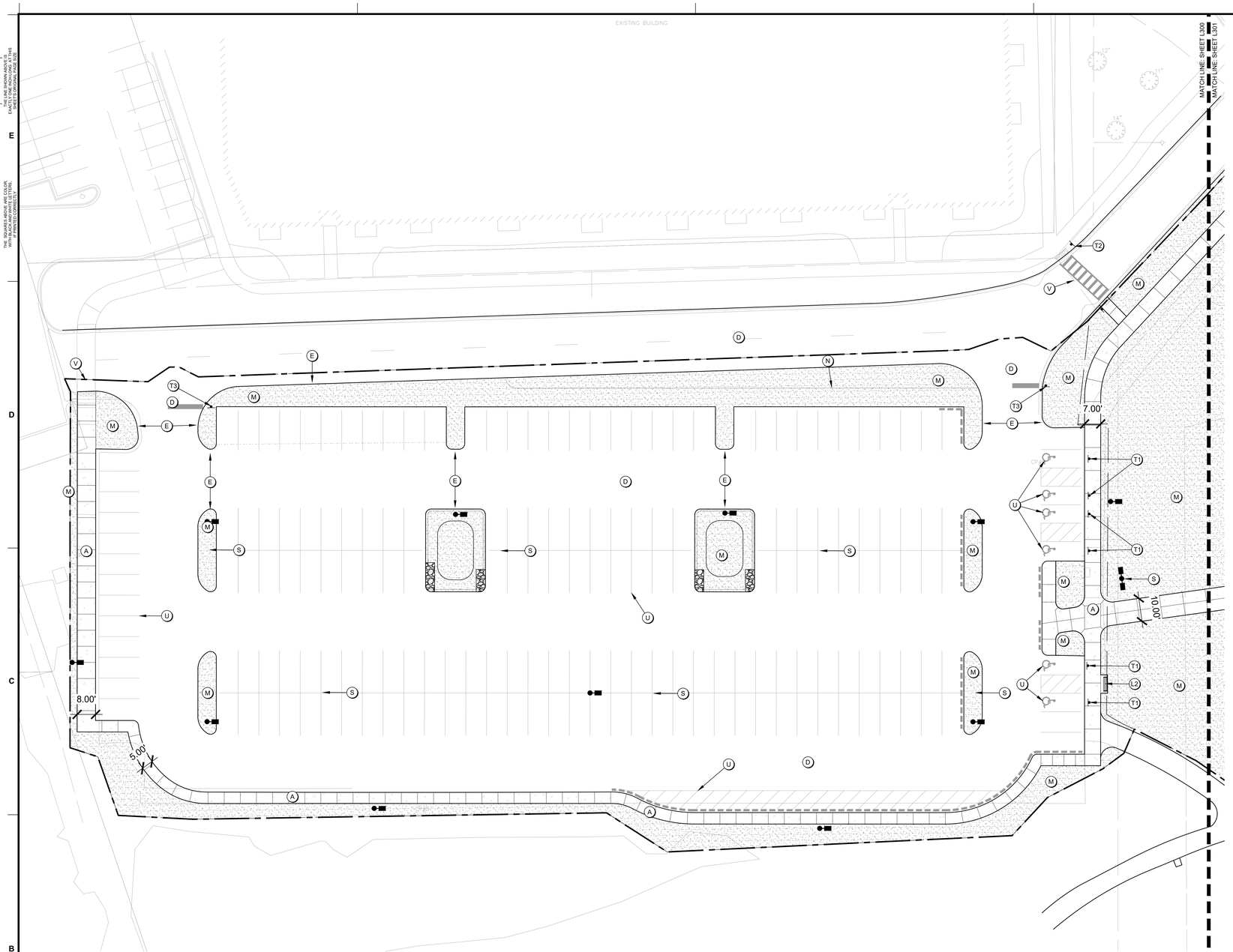


1 L300 HARDSCAPE PLAN - AREA A

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
Z) LANDSCAPE BED EDGE TYPE 2; RE: 14/L701
AA) YARD HYDRANT; RE: 15/L701

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

RAILING, FENCE, AND GATES; SCHEDULE A

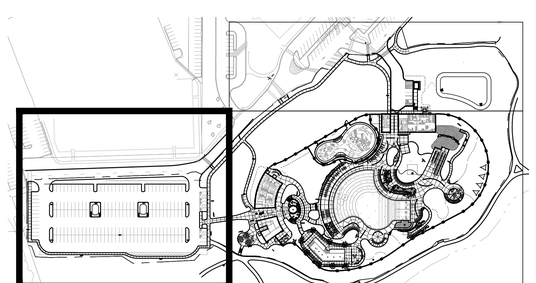
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ, SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L300 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L300

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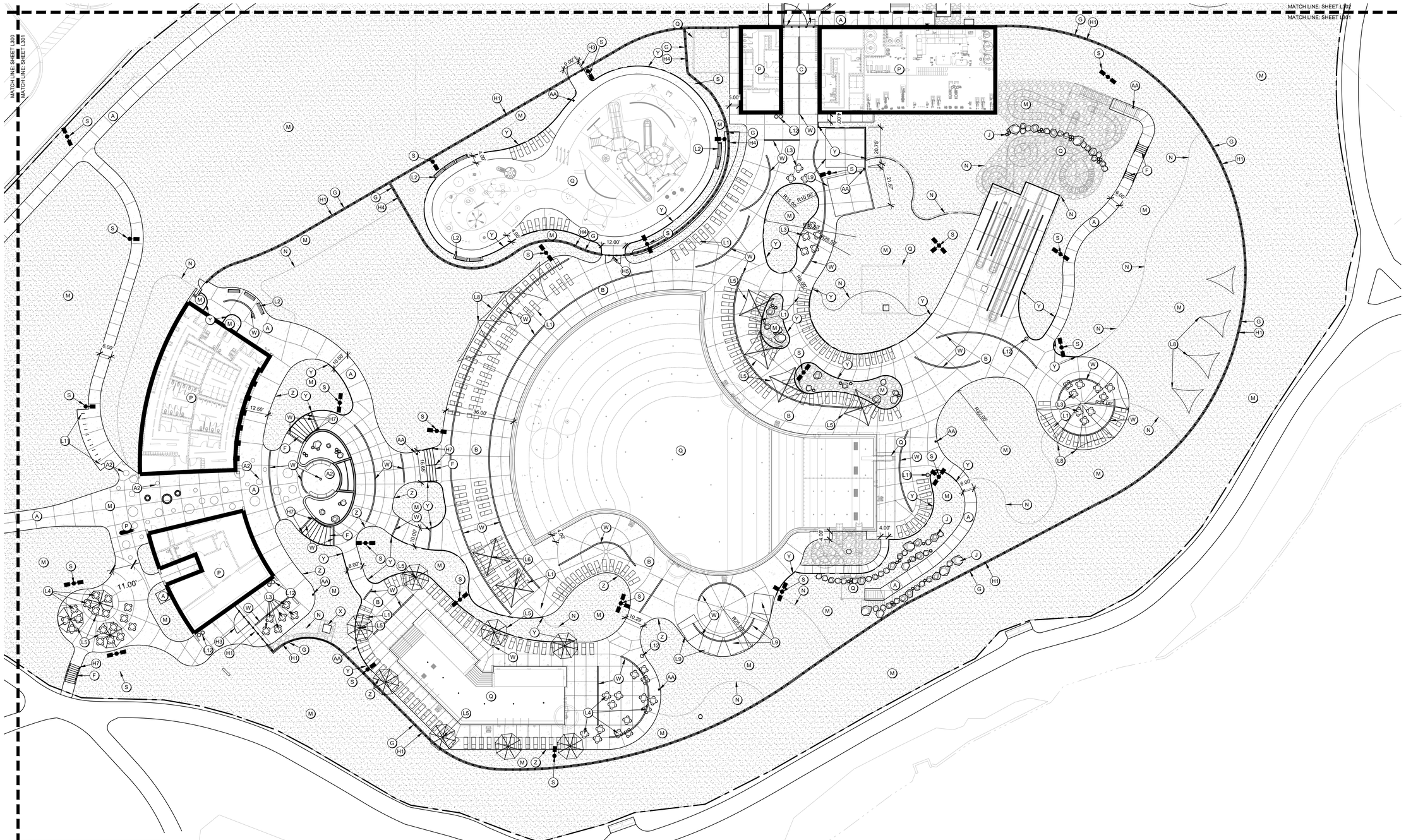
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p)\03 working\10 outcost\200 sheet set manager\SHEETS\L300 Hardscape Plan / SAVE DATE: 3/27/2026 12:48 PM BY: .mmiller / PLOT DATE: 3/27/2026 12:53 PM BY: Anaya Marshall



THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL SIZE

THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, FOR REPRODUCTION

File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, pl)\03 working\10 autocad\200 sheet set manager\SHEETS\L300 Hardscape Plan | SAVE DATE: 3/27/2026 12:48 PM BY: rmiller | PLOT DATE: 3/27/2026 12:53 PM BY: Anaya Marshall

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
Z) LANDSCAPE BED EDGE TYPE 2; RE: 14/L701
AA) YARD HYDRANT; RE: 15/L701

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

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C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

1 L301 HARDSCAPE PLAN - AREA B

0' 10' 20' 40'

RAILING, FENCE, AND GATES; SCHEDULE A

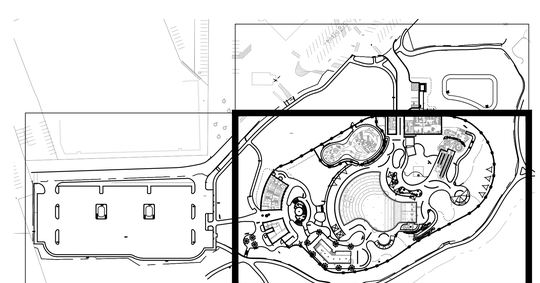
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ, SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L301 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
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307 N Michigan Avenue #601
Chicago, IL 60601
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AQUATICS DESIGNER
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Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L301

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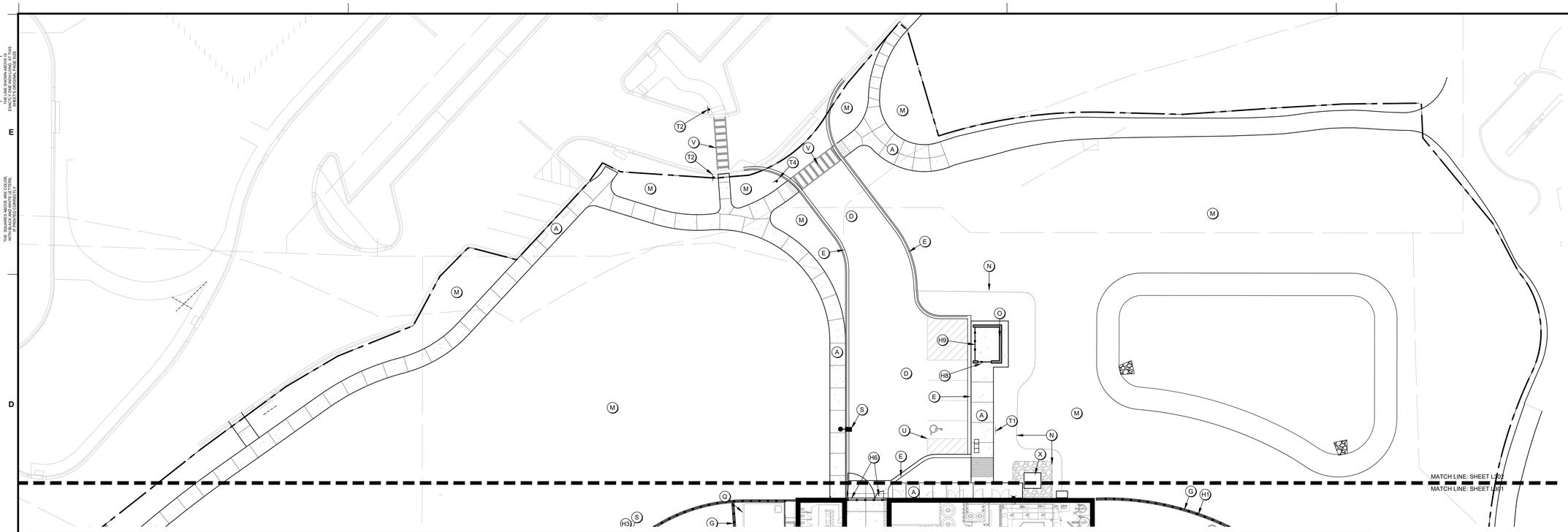
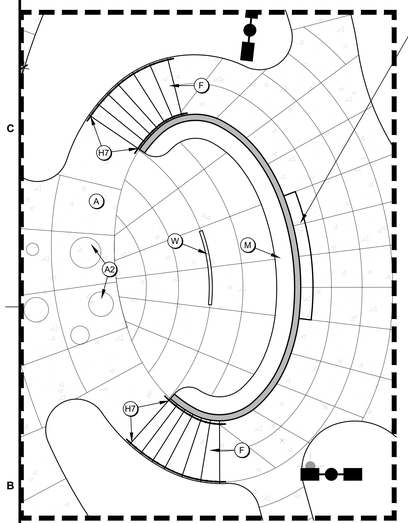
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS SHEET IS CORRECTLY SCALED.

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY.



1 L302 HARDSCAPE PLAN - AREA C



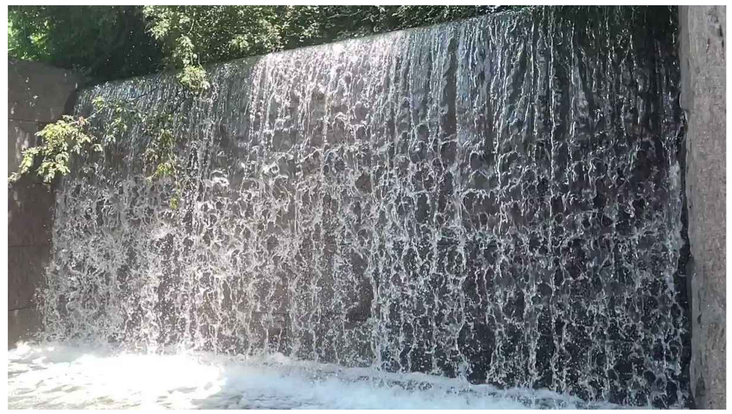
WATER FEATURE/FOUNTAIN. THE APPROXIMATELY 3 FOOT TALL WALL SHALL BE CONSTRUCTED OF REINFORCED CONCRETE OR CMU WITH A FINISHED FACE OF STONE VENEER, OR AS INDICATED IN THE DRAWINGS. A CONCEALED WEIR SYSTEM SHALL BE PROVIDED AT THE TOP OF WALL TO DISTRIBUTE WATER EVENLY ACROSS THE FULL WIDTH AS INDICATED IN THE DRAWINGS, CREATING A UNIFORM, UNINTERRUPTED CURTAIN OF WATER FLOWING DOWN THE VERTICAL SURFACE INTO A RECEIVING BASIN OR POOL BELOW. THE CONTRACTOR SHALL PROVIDE A COMPLETE RECIRCULATING SYSTEM, INCLUDING PUMPS, FILTRATION, PIPING, VALVES, AND CONTROLS, SIZED TO ACHIEVE CONSISTENT FLOW WITHOUT STREAKING OR DRY AREAS. THE WALL SURFACE SHALL BE TRUE, SMOOTH, AND FREE OF IRREGULARITIES THAT WOULD DISRUPT WATER FLOW. ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, DURABLE, AND MAINTAINABLE SYSTEM SHALL BE INCLUDED, COORDINATED WITH STRUCTURAL, ELECTRICAL AND POOL SYSTEMS, AND INSTALLED IN ACCORDANCE WITH THIS DESIGN INTENT.

2 L302 HARDSCAPE PLAN - OVERLOOK ENLARGEMENT

0' 5' 10' 20'



3 L302 WATER FEATURE CONCEPT RENDERING EXAMPLE



4 L302 WATER FEATURE CONCEPT REFERENCE EXAMPLE

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
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D) ASPHALT PAVING; RE: CIVIL SHEETS
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G) CONCRETE MOW STRIP; RE: 4/L700
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J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS

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G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

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B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

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RAILING, FENCE, AND GATES; SCHEDULE A

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
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H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
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L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
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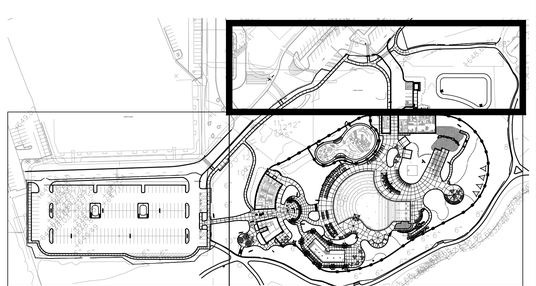
L6	2	UMBRELLA SQ. SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L302 SHEET LOCATION KEY

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS
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Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

HARDSCAPE PLAN

L302

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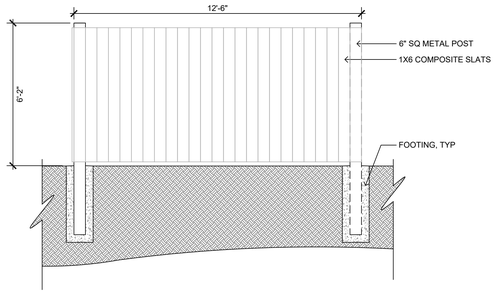
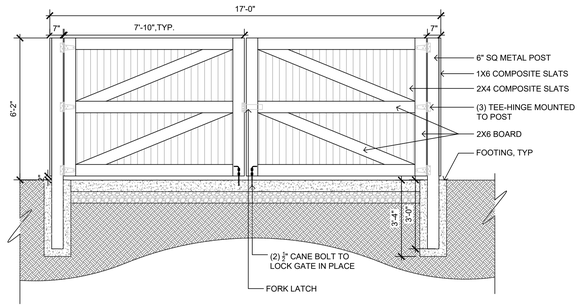
File Location: T:\Projects\25025\25070_wheeling family aquatic (village of wheeling, pj30) working\10 autocad\200 sheet set manager\SHEETS\L300 Hardscape Plan / SAVE DATE: 3/5/2026 4:09 PM BY: jmiller / PLOT DATE: 3/5/2026 4:17 PM BY: Mark Miller

IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS PLOT IS AN ANSI B DRAWING

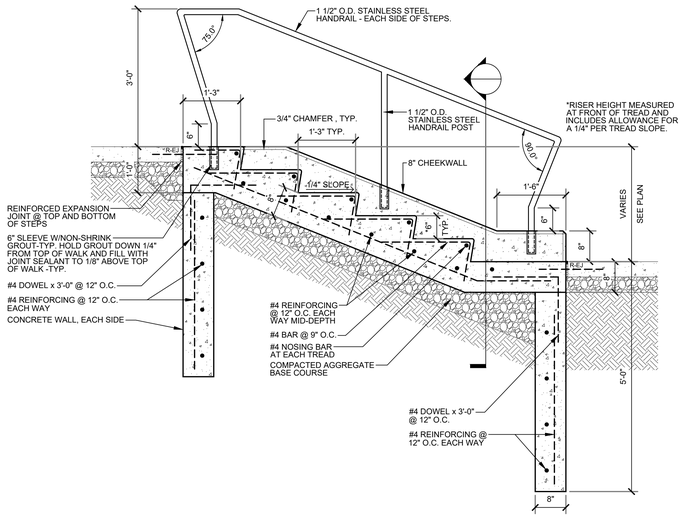
C M Y K
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ARE MONOCHROMATIC



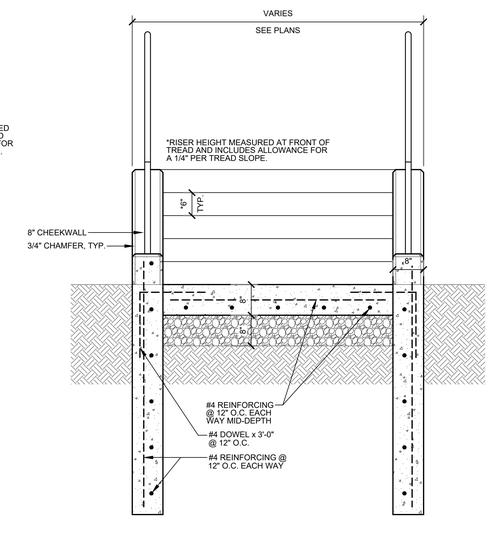
14 L700 TRASH ENCLOSURE SIDE SECTION — SCALE: 3/8" = 1'-0"

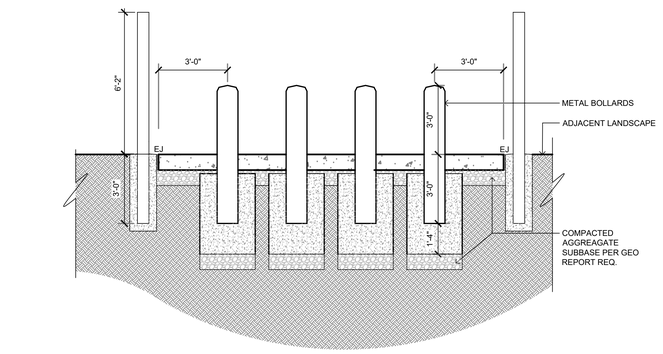


13 L700 TRASH ENCLOSURE GATES — SCALE: 3/8" = 1'-0"

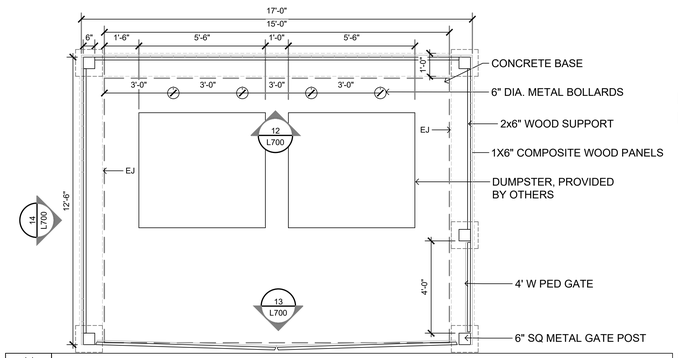


5 L700 CONCRETE STAIRS — SCALE: 3/4" = 1'-0"

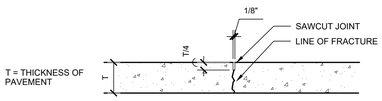




12 L700 TRASH ENCLOSURE — SCALE: 3/8" = 1'-0"

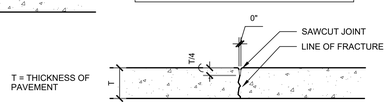


11 L700 TRASH ENCLOSURE LAYOUT — SCALE: 3/8" = 1'-0"



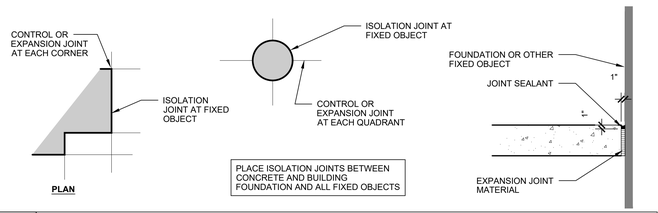
SAWCUT CONTROL JOINT

TOOLED JOINTS SHALL BE CONSTRUCTED AT A MINIMUM DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND INSURE A FREE MOVEMENT OF CONCRETE AT THE JOINT.



TOOLED CONTROL JOINT

10 L700 CONTROL JOINT TYP — N.T.S



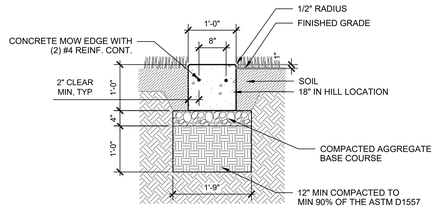
PLACE ISOLATION JOINTS BETWEEN CONCRETE AND BUILDING FOUNDATION AND ALL FIXED OBJECTS

9 L700 ISO JOINT TYP — N.T.S

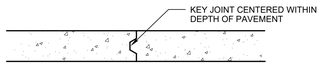
1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED TRANSVERSELY ALONG THE CURB EVERY 40'.

CONTROL JOINTS SHALL BE PLACED 10'-0" O.C. MAX.

4 L700 CONCRETE MOW STRIP TYP — SCALE: 3/4" = 1'-0"

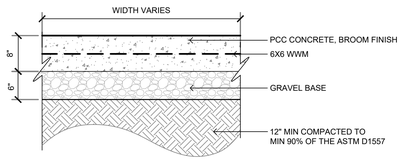


CONSTRUCTION JOINTS SHALL BE PLACED BETWEEN INDIVIDUAL POURS OF CONCRETE WHERE EXPANSION JOINTS DO NOT OCCUR.



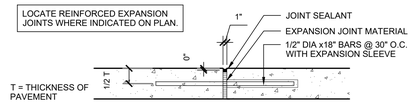
8 L700 CONSTRUCTION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



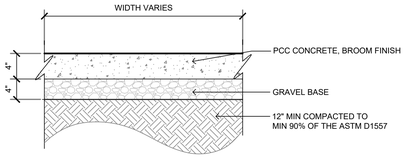
3 L700 PAVING TYPE 3 (REINF PPC) TYP — N.T.S

LOCATE REINFORCED EXPANSION JOINTS WHERE INDICATED ON PLAN.



7 L700 REINF. EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.
3. BROOM FINISH DYNAMIC COEFFICIENT OF FRICTION 0.6

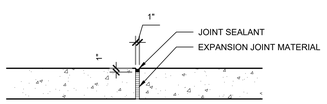


2 L700 PAVING TYPE 2 (POOL DECK) TYP — N.T.S

ALL EXPANSION JOINTS IN WALKS SHALL BE SEALED WITH A SELF LEVELING URETHANE JOINT SEALANT. ASTM C920 , MULTI-COMPONENT (M), GRADE P, CLASS 25, TRAFFIC (T) EXPOSURE. COLOR TO BE MANUFACTURERS STANDARD GRAY OR LIMESTONE.

CLEAN, PRIME, AND BACK JOINTS AS RECOMMENDED BY SEALANT MANUFACTURER. INSTALL IN ACCORDANCE WITH ASTM C1193.

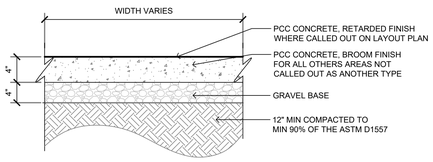
CLEAN OFF EXCESS SEALANT AND SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND MATERIALS APPROVED IN WRITING BY THE SEALANT MANUFACTURER.



SPACE EXPANSION JOINTS NOT TO EXCEED 35' IN CONCRETE WALKS AND WHERE INDICATED ON PLAN.

6 L700 EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



1 L700 PAVING TYPE 1 (SIDEWALK) TYP — N.T.S

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920.887.7375

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CAMOSY CONSTRUCTION
43451 N. US Hwy.
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847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L700

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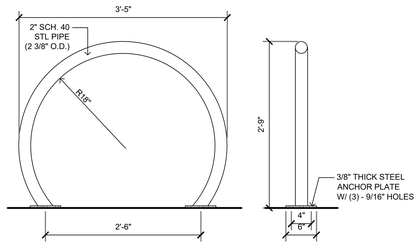
IF THE LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH LONG, ATTHIS DRAWING IS NOT AN ACCURATE SCALE

THE SQUARES ABOVE ARE FOR COLOR, WITH BLACK AND WHITE LETTERS, ARE NOT PRINTED CORRECTLY

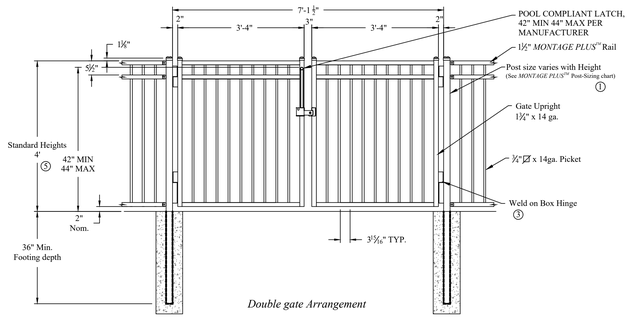


NOTES:
1. INSTALL PER MANUFACTURER SPECIFICATIONS
2. PRODUCT: NDS, SPEE-D CHANNEL DRAINS,
   4" BOTTOM OUTLET AND DECORATIVE GRATES,
   COLOR TO BE DETERMINED
   GRAY CHANNEL, GRATE COLOR TO BE DETERMINED
3. MANUFACTURER:
   NDS
   NDSPRO.COM

12 L701 TRENCH DRAIN
NTS



11 L701 BIKE RACK
SCALE: 1" = 1'-0"

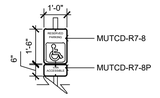


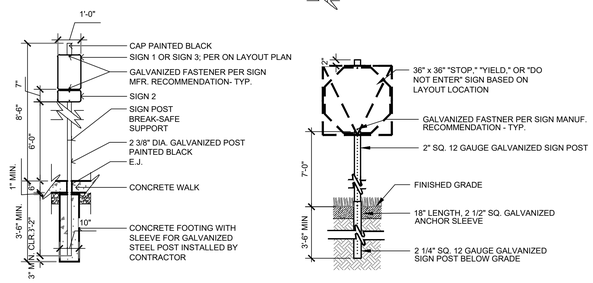
Double gate Arrangement

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

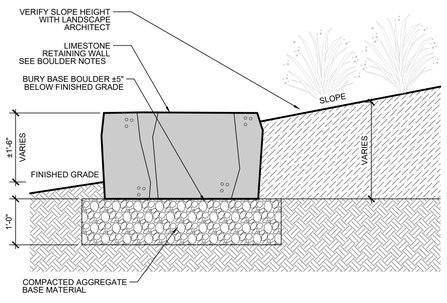
7 L701 GATE, DOUBLE PICKET - 7' OPENING
SCALE: 1/2" = 1'-0"

NOTES:
1. SIGNS TO CONFORM TO MUTCD STANDARDS
2. SUBMIT CUT SHEETS OF POLE, SIGNAGE, CAP FOR APPROVAL.
3. ADA SIGN 1 IS MUTCD-R7-8 AND GOES FOR ACCESSIBLE RESERVED PARKING.
4. ADA SIGN 2 IS MUTCD-R7-8P AND GOES FOR VAN ACCESSIBLE.
5. SIGN 2 TO FOLLOW SIGN 1 PER VAN ACCEPTABLE LOCATIONS PER PARKING ON LAYOUT PLAN LS100.
6. "DO NOT ENTER" SIGN IS MUTCD R5-1.

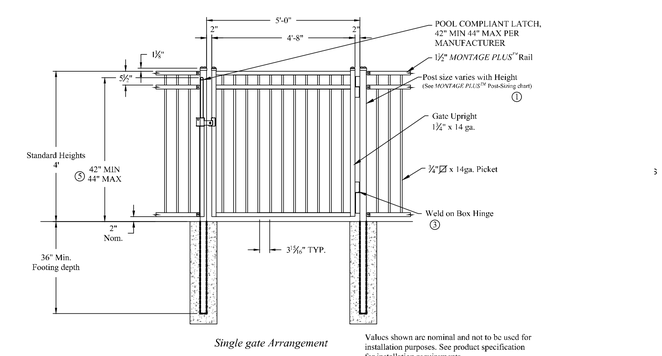




3 L701 ROAD SIGNS, TYP.
SCALE: 3/8" = 1'-0"



10 L701 BOULDER WALL
SCALE: 3/4" = 1'-0"

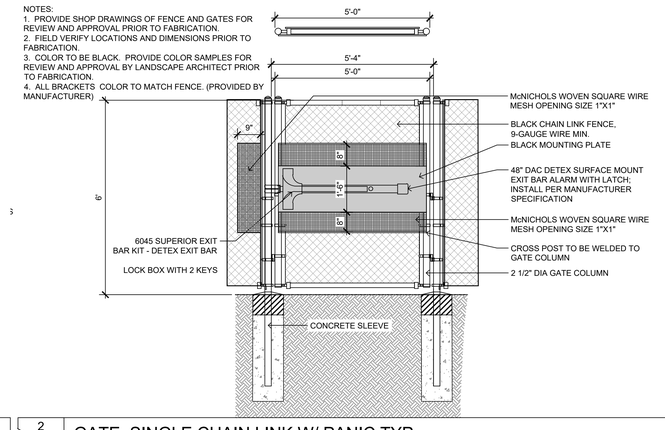


Single gate Arrangement

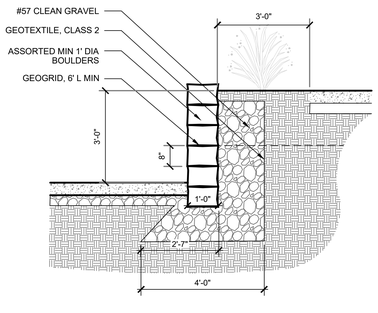
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

6 L701 GATE, SINGLE - 5' OPENING
SCALE: 1/2" = 1'-0"

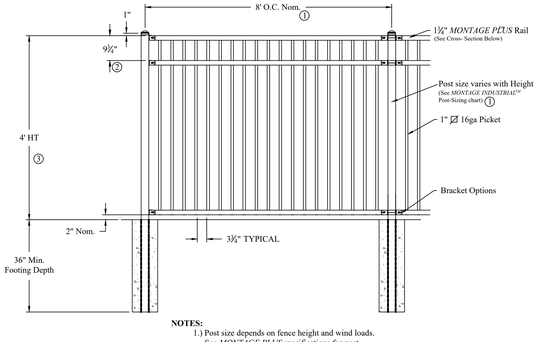
NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)



2 L701 GATE, SINGLE CHAIN LINK W/ PANIC TYP
SCALE: 1/2" = 1'-0"



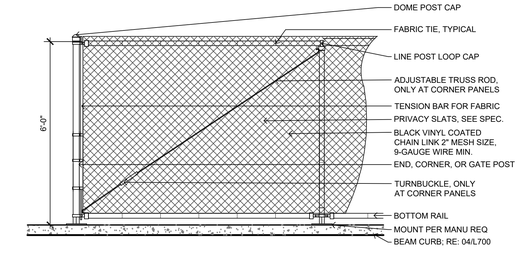
9 L701 RETAINING WALL
SCALE: 1/2" = 1'-0"



NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE PLUS* specifications for post sizing chart and dimensions.
2.) Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

5 L701 FENCE PICKET (INTERNAL) TYP
SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER).



1 L701 FENCE CHAIN LINK (PERIMETER) TYP
SCALE: 1/2" = 1'-0"

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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L701

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MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PV26-0007, Request for a Variation to Increase the Uniformity (Avg/Min) Lighting Level from 4:1 to 6:1 Associated with the Redevelopment of the Wheeling Aquatics Center (105 Community Boulevard). **PUBLIC HEARING**
RECOMMENDED ACTION: **Recommend approval of Docket No. PV26-0007** granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.040, Lighting Standards, and associated sections, to permit an increase in the uniformity (Avg/Min) lighting level from 4:1 to 6:1 for the Wheeling Park District Aquatic Center Facility, located at 105 Community Boulevard in accordance with the Photometric Plan prepared by Confluence, last revised 3/27/2026; Project Description Letter prepared by Confluence, last revised 2/26/2026; and Site Plan Drawings prepared by Confluence, last revised 3/27/2026; and subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use to permit the continued operation of a public park), Docket No. PV26-0006 (variation to permit a reduction in the minimum required number of parking spaces), and Docket No. PSPMAJ25-0006 (major site plan and building appearance approval).

EXECUTIVE SUMMARY

Docket No. PV26-0007: Confluence, Inc. (325 W. Huron Street, Suite 602, Chicago, IL 60654) on behalf of the Wheeling Park District (property owner) requests a variation to permit an increase in the uniformity (Avg/Min) lighting level from 4:1 to 6:1 associated with the redevelopment of the Wheeling Aquatics Center, for the property located at 105 Community Boulevard, as required in Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections.

GENERAL PROPERTY INFORMATION

Petitioner: Confluence, Inc. (325 W. Huron Street, Suite 602, Chicago, IL 60654) on behalf of the Wheeling Park District (property owner)

Location: 105 Community Boulevard

Property size: 103.8 acres (total acreage of Heritage Park)/ 7.34 acres (total development area)

Proposed Floor Area: 12,154 sq. ft. (primary building and mechanical building)

Neighboring Property Land Use(s):
North: Wheeling Village Hall and Police Department
West: Wheeling Park District Community Recreation Center (CRC)/Residential
South: Industrial/Residential
East: Residential/Institutional (across Wolf Road)

Existing Use of Property: Wheeling Outdoor Aquatics Center (Public Park)

Existing Zoning: MXT (Transit-Oriented Mixed Use), R-1 (Single Family Residential) and R-2 (Single-Family)

Comprehensive Plan Designation: Open Space

Zoning History:

- Ordinance No. 2698, approved May 20, 1991, granting Special Use and Site Plan Approval for an existing public park and development improvements (Docket # 1991-10).
- Ordinance No. 3067, approved August 21, 1995, granting an amendment to Sections A and B of Ordinance No. 2698, which granted Special Use and Site Plan Approval for a public park (Docket # 1995-20).
- Ordinance No. 3665, approved August 12, 2002, granting an amendment to Ordinance No's. 2698 and 3067, which granted Special Use and Site Plan Approval for a public park to expand the Aquatic Center Facility (Docket # 2002-22).

SUMMARY OF REQUEST

The petitioner is requesting a variation to permit an increase in the uniformity (Avg/Min) lighting level from 4:1 to 6:1 associated with the redevelopment of the Wheeling Aquatics Center located at 105 Community Boulevard.

The petitioner is also seeking an amendment to the existing Special Use (Docket No. PSU26-0003), along with a variation to permit a reduction in the minimum number of required parking spaces (PV26-0006) and major site plan and appearance approval (PSPMAJ25-0006).

VARIANCE

A variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

As detailed in Docket No. PSPMAJ25-0006, the petitioner is seeking to redevelop the existing outdoor aquatics center at Heritage Park to create a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency and integrates cohesively with the surrounding park amenities located at 105 Community Boulevard.

A comprehensive lighting plan has been prepared to provide new site lighting and architectural light fixtures to serve the new aquatics center facility, including parking areas, pathways, sidewalks, and facility structures. The photometric analysis demonstrates that lighting levels across the site are designed to provide adequate illumination for safety and visibility while maintaining a generally uniform distribution of light. The uniformity ratio measures the difference between the brightest and darkest areas within the parking lot, with lower ratios indicating more consistent lighting conditions.

The Village Code permits a maximum uniformity ratio of 4:1, where the proposed lighting plan results in a ratio of 6:1 within the "west" parking lot. This indicates that certain areas of the parking lot will experience a greater disparity in light levels compared to what is typically permitted. As a result, the petitioner is requesting a variation to allow the increased uniformity ratio. All lighting will be controlled through a centralized system with zoning and sequencing to ensure efficient operation and compliance with energy standards.

The proposed increase in uniformity ratio is limited to the "west" parking lot which the petitioner has determined would provide for improved public safety for motorists and pedestrians that is expected to increase in activity upon the new aquatic center. As such, the requested variation is considered reasonable in the context of the overall site design and operational needs of the facility.

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request. (Any staff comments follow the petitioner's response)

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations**

were carried out.

Petitioner: The existing decorative parking lot pole lights use high wattage HID fixtures with limited optic and distribution options. Because the project proposes to reuse the existing poles and decorative pole heads, the lighting system cannot meet the Village's 4:1 uniformity ratio without replacing the existing fixtures. The existing relocated lights currently produce an average to minimum uniformity ratio of approximately 6:1. The hardship is created by the physical limitations of the existing decorative fixtures and the desire to salvage and reuse lights that still have useful life remaining. Reusing the existing lights supports sustainability goals, reduces waste, and avoids the cost of replacing all decorative pole heads.

Staff: The existing decorative light fixtures and poles were installed as part of the Heritage Park Master Plan in which a specific light fixture and pole design creates an intentional aesthetic throughout Heritage Park. Due to the type of fixtures limits the ability to achieve the required uniformity ratio without full replacement and deviation from the Heritage Park Master Plan.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other properties or uses.**

   Petitioner: This hardship is unique because the project includes relocated decorative parking lot lights that were previously installed by the Park District. Unlike a typical new development that would use new standard LED fixtures, this project is using existing decorative pole tops and poles. These existing decorative pole top fixtures offer fewer optic and distribution options than newer parking lot fixtures, which limits the ability to achieve the required lighting uniformity ratio.

   Staff: Staff concurs with the petitioner’s response.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**

   Petitioner: The existing decorative lighting poles and HID fixtures were previously installed and are part of the Park District's existing infrastructure. The project team is attempting to reuse these existing improvements to reduce costs, limit waste, and maintain consistency with the character of the site. The lighting limitations are a result of the existing HID fixtures.

   Staff: Staff concurs with the petitioner’s response.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**

   Petitioner: Without the requested variation, the project may require full replacement of the existing decorative light fixtures and possible modifications to the existing poles in order to meet the 4:1 standard. This would increase project costs and require removal of fixtures that still have useful life remaining. The requested variation allows the Park District to continue using functional infrastructure while maintaining a safe and attractive parking lot lighting system.

   Staff: Strict compliance would require replacement of functional lighting infrastructure, resulting in increased costs and reduced efficiency without a proportional benefit to site performance.

5. **State how the granting of the variation will not alter the essential character of the locality.**

   Petitioner: Granting the variation will not alter the essential character of the area. The proposed parking lot lighting will continue to use decorative pole top fixtures that are compatible with the park, aquatic center, and surrounding community facilities. The variation only relates to the lighting uniformity ratio and does not affect the building, land use, or overall character of the site.

   Staff: The variation will not alter the character of the area, as the current lighting will be reused within the same parking area.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the**

neighborhood.

Petitioner: The proposed variation will not negatively affect adjacent properties or public safety. The parking lot lighting will continue to provide adequate illumination for pedestrians and vehicles. The variation will not increase traffic, noise, congestion, fire risk, or other impacts on the surrounding area. The proposed variation is limited in scope and will not diminish property values or impair public health, safety, or welfare.

Staff: The variation is not expected to adversely impact public safety, adjacent properties, or infrastructure, as adequate lighting levels will still be maintained throughout the site.

STAFF REVIEW

Fire Department Review: No comments related to the variance request.

Engineering Division Review: No comments related to the variance request.

Staff Recommended Action: Staff recommends approval of the variance request subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use to permit the continued operation of a public park), Docket No. PV26-0006 (variation to permit a reduction in the minimum required number of parking spaces), and Docket No. PSPMAJ25-0006 (major site plan and building appearance approval).

****

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of a variation, the appropriate motion would be to:

Recommend approval of Docket No. PV26-0007 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.040, Lighting Standards, and associated sections, to permit an increase in the uniformity (Avg/Min) lighting level from 4:1 to 6:1 for the Wheeling Park District Aquatic Center Facility, located at 105 Community Boulevard in accordance with the Photometric Plan prepared by Confluence, last revised 3/27/2026; Project Description Letter prepared by Confluence, last revised 2/26/2026; and Site Plan Drawings prepared by Confluence, last revised 3/27/2026; and subject to the following condition:

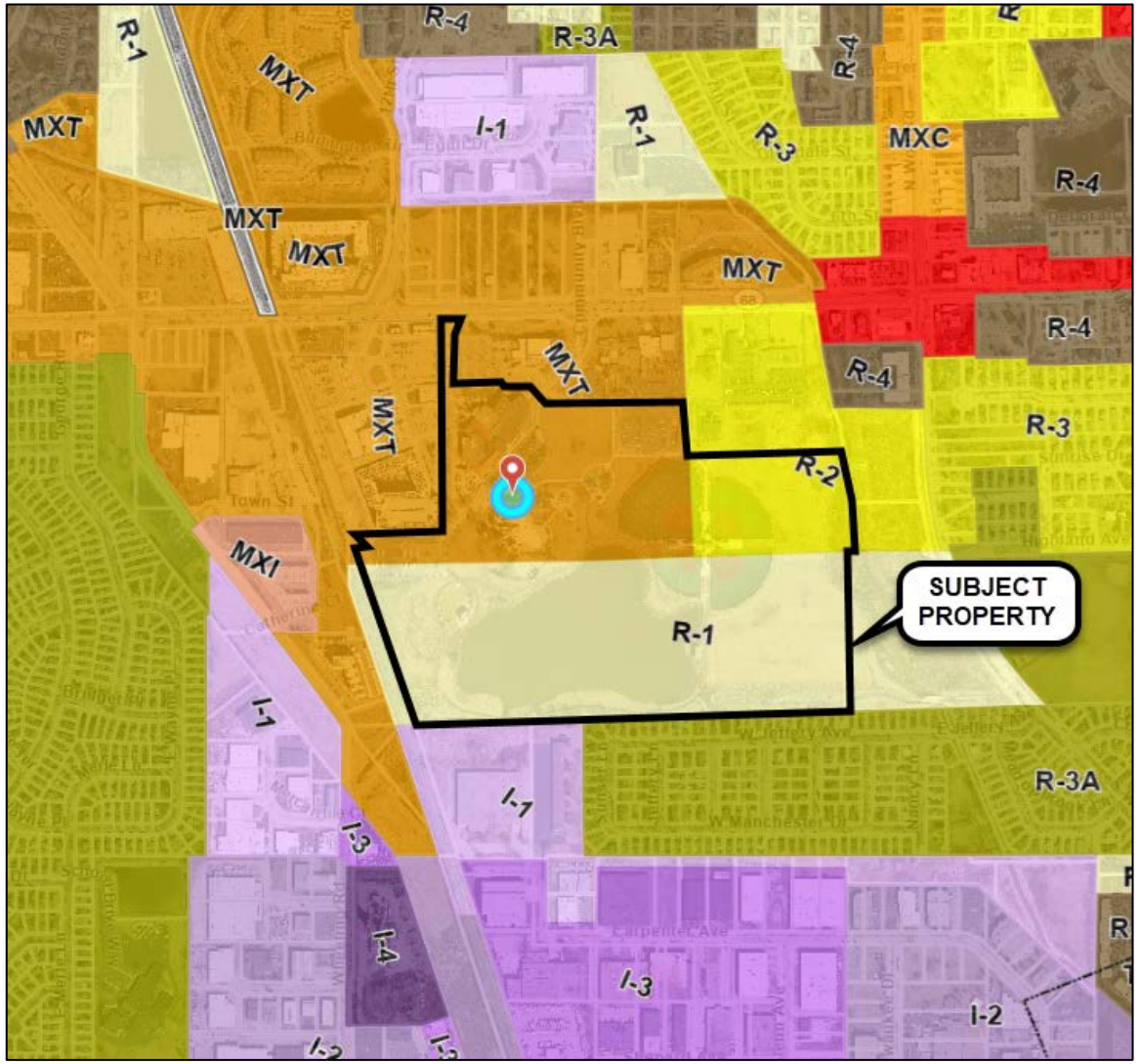
1. Approval of the variance is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use to permit the continued operation of a public park), Docket No. PV26-0006 (variation to permit a reduction in the minimum required number of parking spaces), and Docket No. PSPMAJ25-0006 (major site plan and building appearance approval).

ATTACHMENTS:

Attachments to Staff Report (Staff)
Photometric Plan prepared by Confluence, last revised 3/27/2026
Project Description Letter prepared by Confluence, last revised 2/26/2026
Site Plan Drawings prepared by Confluence, last revised 3/27/2026



LOCATION MAP



ZONING MAP



Photo of the Existing Parking Lot Located Southwest of the Aquatics Center.



Photo of the crosswalk between The One Apartments and the west side of the parking lot, facing south.

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

(1) — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
NORTH 1 VIEW NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS — SIM
1 — DETAIL REFERRED TO BY SECTION CUT — 1 4 2 3
M101 — SHEET DETAIL IS LOCATED ON — T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE ELECTRICAL CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

ELECTRICAL CODE:	IDPH: NFPA 70 (NEC) 2008 EDITION VILLAGE OF WHEELING: NFPA 70 (NEC) 2017 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
ILLINOIS ACCESSIBILITY CODE:	ADA 2018

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
INV-#	LIGHTING INVERTER	26 52 00
SPD-#	SURGE PROTECTION DEVICE	26 43 00

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
F.P.C	FIRE PROTECTION CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
EGC	EQUIPMENT GROUNDING CONDUCTOR
EPO	EMERGENCY POWER OFF
NEMA #	NEMA RATING
NO	NORMALLY OPEN
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

ELECTRICAL SYMBOL LIST - RECEPTACLES

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
#		REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	X	REC-DUP-XP	26 27 26	DUPLEX RECEPTACLE, EXPLOSION PROOF, 125V
	W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE, 125V - NEMA 3R WHILE IN-USE COVER
		REC-DUP-GFI	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, GROUND FAULT CIRCUIT INTERRUPTER, 125V
#		REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
#	630	REC-SIM-630R	26 27 26	RECEPTACLE, 6-30R, 250V

ELECTRICAL SYMBOL LIST - POWER

SYMBOL	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
E	ECONN	26 05 33	ELECTRICAL CONNECTION - CEILING/SURFACE
E	ECONN	26 05 33	ELECTRICAL CONNECTION - WALL
J	JB	26 05 33	JUNCTION BOX - WALL
	ES	26 09 16	EMERGENCY STOP, N.C. CONTACT
	PANEL-'##'	26 24 16	PANELBOARD - SURFACE MOUNT
	DP-#	26 24 16	DISTRIBUTION PANEL
	MX-#	26 24 19	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
	TR-#	26 22 00	DRY TRANSFORMER(S),REFER TO TRANSFORMER SCHEDULE
	ATS-#	26 36 00	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE
	DS-#	26 28 16	DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
	VFD-#	26 29 23	VARIABLE FREQUENCY DRIVE, REFER TO VFD SCHEDULE
HH	HH-#	26 05 31	HAND HOLE

EQUIPMENT ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	AUTOMATIC DOOR OPERATOR WITH SENSOR
COF	COFFEE
COPY	COPIER
DOOR	DOOR OPERATOR, ELECTRIC
EWC	ELECTRIC WATER COOLER
HD	HAND DRYER
MW	MICROWAVE
REF	REFRIGERATOR
TV	TELEVISION - MONITOR - DISPLAY
UCF	UNDERCOUNTER FREEZER
VEND	VENDING MACHINE

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:

DEVICE — # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
L	MOUNT IN CASEWORK
+#"	MOUNT AT #" TO CENTERLINE ABOVE FINISHED FLOOR

TECHNOLOGY ROUGH-IN SYMBOL LIST AND REQUIREMENTS

\# DATA
BOX: 4" x 4" x 2-1/8" WITH SINGLE GANG RING.
CONDUIT: 1" CONDUIT STUBBED TO BUILDING'S IT ROOM.
MOUNTING: 18" AFF, UNLESS NOTED OTHERWISE ON PLANS.

D - ROUGH-IN FOR DATA, CONFIRM FINAL LOCATION WITH OWNER.
CAM - ROUGH-IN FOR CAMERA, CONFIRM FINAL LOCATION WITH OWNER.
WAP - ROUGH-IN FOR WIRELESS ACCESS POINT, CONFIRM FINAL LOCATION WITH OWNER.

\# CEILING MOUNTED DATA
BOX: 4" x 4" x 2-1/8" WITH SINGLE GANG RING.

D-CAM - ROUGH-IN FOR CAMERA, CONFIRM FINAL LOCATION WITH OWNER.
CONDUIT: 1" CONDUIT STUBBED TO BUILDING'S IT ROOM.

D-SPK - ROUGH-IN FOR SPEAKER, CONFIRM FINAL LOCATION WITH OWNER.
CONDUIT: 1" CONDUIT STUBBED TO BUILDING'S SPEAKER HEADEND RACK.

CR — CARD READER ROUGH-IN. ROUTE (2) 1" C. FROM CARD READER ROUGH-IN AND ELECTRIC STRIKE AND STUB NEXT TO IT CABINET.

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 (LATEST PUBLISHED) ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
6. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
7. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
8. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
9. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS,CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.
10. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
11. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
13. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
14. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
15. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX

E-000	ELECTRICAL COVERSHEET
E-001	ELECTRICAL COVERSHEET
E-002	ELECTRICAL SITE PLAN
E-003	ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES
E-004	ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES - PHOTOMETRIC
E-005	ELECTRICAL SITE PLAN - PHOTOMETRICS
E-006	ELECTRICAL SITE LIGHTING - CUT SHEETS
E-101A	FIRST FLOOR PLAN - LIGHTING - BATH HOUSE & CONCESSIONS
E-101B	FIRST FLOOR PLAN - LIGHTING - MECHANICAL & RESTROOM
E-102A	LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS
E-102B	LIGHTING PHOTOMETRICS - MECHANICAL & RESTROOM
E-103	INTERIOR LIGHTING - CUT SHEETS
E-104	INTERIOR LIGHTING - CUT SHEETS
E-111A	FIRST FLOOR PLAN - POWER - BATH HOUSE & CONCESSIONS
E-111B	FIRST FLOOR PLAN - POWER - MECHANICAL & RESTROOM
E-121A	FIRST FLOOR PLAN - SYSTEMS - BATH HOUSE & CONCESSIONS
E-121B	FIRST FLOOR PLAN - SYSTEMS - MECHANICAL & RESTROOM
E-200	ELECTRICAL DETAILS
E-201	ELECTRICAL DETAILS
E-300	ELECTRICAL DIAGRAMS
E-400	ELECTRICAL SCHEDULES
E-500	ELECTRICAL PANEL SCHEDULES
E-501	ELECTRICAL PANEL SCHEDULES
E-502	ELECTRICAL PANEL SCHEDULES
GRAND TOTAL: 24	

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WATER TECHNOLOGY, INC.
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920.887.7375

PRELIMINARY
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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL
COVERSHEET

E-000

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			DOWNLIGHT LUMINAIRE
			INDUSTRIAL LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN

LUMINAIRE CIRCUIT AND CONTROL KEY

LUMINAIRE

F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION
z1=ZONE DESIGNATION
"NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
"SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM CENTRAL EMERGENCY LIGHTING INVERTER UPON LOSS OF POWER.

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

ELECTRICAL SYMBOL LIST - LIGHTING CONTROLS

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
S		SW-1P	26 09 33	SWITCH - SINGLE POLE
	3	SW-3W	26 09 33	SWITCH - THREE WAY
	V	SW-V	26 09 33	SWITCH - VACANCY SENSOR AND SWITCH
	W	SW-1P-WP	26 09 33	SWITCH - WEATHERPROOF
	O	SW-O	26 09 33	SWITCH - OCCUPANCY SENSOR AND SWITCH
	K	SW-1P-K	26 09 33	SWITCH - SINGLE POLE - KEY LOCK
# #B		SW-#B	26 09 33	LIGHTING CONTROL STATION - RAISE, LOWER, FADE DIMMING (DEFAULT)

ELECTRICAL SYMBOL LIST - FIRE ALARM

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
		FACP	28 31 00	CONTROL PANEL
# S		FA-120	28 31 00	SMOKE DETECTOR - PHOTOELECTRIC
# H		FA-140	28 31 00	HEAT DETECTOR
#		FA-200	28 31 00	VISUAL ALARM DEVICE
	##	FA-200	28 31 00	VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING
# F		FA-210	28 31 00	AUDIO (HORN/CHIME) ALARM DEVICE
	##	FA-211	28 31 00	COMBINATION AUDIO (HORN/CHIME) / VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING
		FA-160	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.
2. ROOM BASED LIGHTING CONTROLS: INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLLERS, CONTROL PANELS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL 'INTELLIGENT' LIGHTING CONTROL SYSTEM. LIGHTING CONTROL ZONES AND POWER CIRCUITS COMMONLY ALIGN.
3. NETWORK BASED LIGHTING CONTROLS: INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLS, CONTROL PANELS, DIMMER RACKS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL 'INTELLIGENT' LIGHTING CONTROL SYSTEM FOR ADVANCED ARCHITECTURALLY BASED LIGHTING CONTROL SYSTEMS. LIGHTING CONTROL ZONES COMMONLY ASSOCIATED WITH ONE OR MORE BRANCH POWER CIRCUITS WITHIN THE SAME CONTROL ZONE.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. STANDALONE LIGHTING CONTROL DEVICES: CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.
   A. EXAMPLE SYMBOL "S", SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".
   B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).
   C. SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" WITHIN THE SAME SPACE.
   D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.

   F# a — LUMINAIRE; a S — CONTROL

2. ROOM BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.
   A. EXAMPLE CONTROL STATION: SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".
   B. EXAMPLE PANEL/RACK/CABINET: TAGGED "LCPR#", DESCRIPTION "ROOM BASED LIGHTING CONTROL PANEL/RACK/CABINET.
   C. EXAMPLE CONTROL DESIGNATIONS: a, b, c
   D. LIGHTING CONTROL STATION "#B" a,b CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" AND "b" WITHIN THE SAME SPACE
   E. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.

   F# a — LUMINAIRE; F# b — LUMINAIRE; a,b #B — CONTROL

3. NETWORK BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.
   A. EXAMPLE SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".
   B. EXAMPLE PANEL/RACK/CABINET: TAGGED "LCPN", DESCRIPTION "NETWORK BASED LIGHTING CONTROL PANEL/RACK/CABINET.
   C. EXAMPLE CONTROL DESIGNATIONS: z1, z2, z3
   D. LIGHTING CONTROL STATION "#B" z1 CONTROLS LUMINAIRES WITH THE SUBSCRIPT "z1". LUMINAIRES WITH A z1 DESIGNATION MAY OR MAY NOT BE SERVED BY THE SAME BRANCH LIGHTING CIRCUIT.
   E. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.

   F# z1 1 — LUMINAIRE; F# z1 5 — LUMINAIRE; z1 #B — CONTROL

   BOTH LUMINAIRES ARE CONTROLLED BY THE SAME CONTROL STATION, SAME LIGHTING CONTROL ZONE Z1, BUT POWERED BY DIFFERENT BRANCH LIGHTING CIRCUITS.

LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES:

{L#-##} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E-400.

{#B} LIGHTING CONTROL STATION. THE "#" INDICATES THE MINIMUM QUANTITY OF ZONES/SCENES AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. THE LIGHTING CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) OR NETWORK CONTROL SYSTEM (z1, z2, z3) IS REQUIRED.

{z##} INDICATES ZONING AND REFLECTS A LIGHTING CONTROL GROUP. PROVIDE RELAYS AS REQUIRED TO ALLOW LUMINAIRES WITHIN THE DEFINED ZONE TO FUNCTION TOGETHER.

LIGHTING CONTROL SUBSCRIPTS:
1. LOWER CASE ALPHA SUBSCRIPTS "a, b, c" INDICATE LINE VOLTAGE OR ROOM BASED LIGHTING CONTROL SYSTEMS. REFER TO DRAWINGS TO DETERMINE IF LINE VOLTAGE CONTROL (S, S3, S4, ETC) OR {#B} ROOM BASED CONTROLLER SYSTEM (#B) IS REQUIRED.
2. LOWER CASE ALPHA NUMERIC SUBSCRIPTS "z1, z2, z3" INDICATE NETWORK BASED LIGHTING CONTROL SYSTEM.

REFER TO SHEET E-400 FOR LUMINAIRE SCHEDULE

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	IMC	EMT	PVC	RTRC	PVC COATED RMC	HDPE
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X				
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X				
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X				
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X				
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X				
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X				X		
CORROSIVE LOCATIONS	X	X			X	X	
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			X				
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	X				
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED			X				
UNDERGROUND / SLABS ON GRADE (OR UNDER SLABS ON GRADE)							
WITHIN THE PERIMETER OF THE BUILDING, UNDER SLAB ON GRADE	X			X			
WITHIN 5' OF ANY BUILDING WALL OR FOUNDATION WHEN PENETRATING THE STRUCTURAL FOUNDATION OR WALL	X				X		
UNDERGROUND SITE CONDUITS:							
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				X		
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X	X		
HAZARDOUS (CLASSIFIED LOCATIONS AS DEFIED BY THE NATIONAL ELECTRICAL CODE: COMPLETE WITH SCREWED FITTINGS AND CONDUIT SEALS	X				X		

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

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REF. SCALE IN INCHES — PROJECT #25005326.00

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL COVERSHEET

E-001

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ONLY. IF THIS IS NOT THE CASE, ADJUST ACCORDINGLY

Statistics						
Description	Symbol	Avg	Min	Max/Min	Avg/ Min	Max
NEW PATHWAY	+	5.7 fc	1.1 fc	12.0:1	5.2:1	13.2 fc
PARKING	+	0.6 fc	0.1 fc	9.0:1	6.0:1	0.9 fc
SIDEWALK	+	0.9 fc	0.0 fc	N/A	N/A	3.5 fc

SHEET NOTES:

1. AQUATIC CENTER SITE LIGHTING IS CONTROLLED BY LIGHTING SEQUENCE OF OPERATION (LS5), UNLESS NOTED OTHERWISE AT THE FIXTURE.

KEYNOTES:

1. REFER TO 1/E-201 POOL BONDING DETAIL TO COMPLY WITH NEC 680.26 FOR POOL EQUIPONTENTIAL BONDING REQUIREMENTS.
2. (2) 2 1/2" C. ROUTED BETWEEN EACH PROPOSED BUILDING IT WALL CABINET. PROVIDE WITH PULL STRING.
3. (1) 2 1/2" C. FROM OWNERS TELECOM CABINET STUBBED TO BUILDING IT CABINET.
4. (2) 3" C. FROM MAIN SERVICE PANEL TO BATH & CONCESSION BUILDING DISTRIBUTION PANEL.
5. SLIDE EMERGENCY STOP. LOCATE AT TOP OF SLIDE TOWER. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
6. SLIDE EMERGENCY STOP. LOCATE AT SIDE OF SLIDE TOWER. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
7. ZERO DEPTH ENTRY WATER FEATURE EMERGENCY STOP. LOCATE AT BARRIER FENCE. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
8. WET DECK WATER FEATURE/PLAY STRUCTURE EMERGENCY STOP. LOCATE AT BARRIER FENCE. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
9. 120V CONNECTION TO IN-POOL/POOL FEATURE REMOTE LED CONTROLLER. COORDINATE LOCATION OF ALL REMOTE LED DRIVERS WITH CONTROLLER LOCATION. REFER TO AQUATIC PLAN LIGHTING DETAILS AND 5/E-201 FOR ADDITIONAL REQUIREMENTS.
10. ROUTE (2) 1" C. FOR LOW-VOLTAGE PATHWAYS TO SERVE FUTURE WAPS OR SPEAKERS MOUNTED ON POLE. STUB CONDUIT FROM CONCESSIONS BUILDING IT ROOM UP WITHIN POLE BASE TO POLE HANDHOLE ACCESS. PROVIDE WITH NYLON PULL STRING.
11. ROUTE (2) 1" C. FOR LOW-VOLTAGE PATHWAYS TO SERVE FUTURE WAPS OR SPEAKERS MOUNTED ON POLE. STUB CONDUIT FROM MECHANICAL BUILDING IT ROOM UP WITHIN POLE BASE TO POLE HANDHOLE ACCESS. PROVIDE WITH NYLON PULL STRING.
12. ROUTE (2) 1" C. FOR LOW-VOLTAGE PATHWAYS TO SERVE FUTURE WAPS OR SPEAKERS MOUNTED ON POLE. STUB CONDUIT FROM MECHANICAL BUILDING IT ROOM UP TO TOP OF SLIDE TOWER. COORDINATE EXACT LOCATION AT TOWER WITH OWNER.
13. MOUNT RECEPTACLE AT BOTTOM OF AREA LIGHT FIXTURE POLE BASE WITH NEMA 3R WHILE-IN-USE COVER.
14. MOUNT RECEPTACLE IN FREESTANDING POWER PEDESTAL WITH NEMA 3R HINDGED LOCAKABLE COVER, PEDOC OR APPROVED EQUAL.

EXISTING INCOMING FIBER

EXISTING PEDESTRIAN POLE LIGHT

EXISTING FIBER CABINET

UTILITY TRANSFORMER, REFER TO E-111B FOR ADDITIONAL INFORMATION

EXISTING COMED PRIMARY

REMOVE EXISTING POLE LIGHT AND POLE BASE. INSTALL NEW POLE LIGHT IN EXISTING LOCATION WITH NEW BASE.

PROVIDE SPLICE PIT/MANHOLE PER COMED REQUIREMENTS, INSTALLED BY CONTRACTOR, TO INTERCEPT EXISTING UTILITY PRIMARY SERVING PREVIOUS AQUATIC CENTER ELECTRICAL SERVICE. PROVIDE (2) 4" SCH 40 PVC CONDUIT TO NEW UTILITY TRANSFORMER FOR UTILITY PRIMARY PATHWAY. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUTE.

MOUNT INTO PRE-CUT OPENING IN SUPPORT COLUMNS (TYP.)

EM PHONE/L2-62

EM PHONE/L1A-14

EXISTING SITE LIGHTING POLE

POOL 'A' LED CONTROLLER/L1A-15

POOL 'B' LED CONTROLLER/L2-44

POOL 'D' LED CONTROLLER/L1A-17

W/+18"/L1A-11

W/+18"/L2-36

W/+18"/L2-29

W/+18"/L2-29

W/L1A-28 (LS6) P1 11 13

W/L1A-26 13 P2/H-S1-4,6,8 11

W/L1A-21 13 P2/H-S1-4,6,8 11

W/L1A-25 13 P2/H-S1-4,6,8 11

W/L1A-18 13 P2/H-S1-4,6,8 11

W/L2-89 13 P3/H-S2-6,8,10 11

W/L2-90 13

W/L2-89 13

W/L2-98 13 P2/H-S2-6,8,10 10

W/L2-100 13 P2/H-S2-6,8,10 10

W/L2-97 13 P2/H-S2-6,8,10 10

W/L2-91 13

W/L2-94 13 P2/H-S2-7,9,11 10

W/L2-91 13

W/L2-99 13 P2/H-S2-7,9,11 10

W/L2-93 13 P2/H-S2-12,14,16 10

W/L2-93 13 P2/H-S1-7,9,11 10

W/L2-96 P2/H-S2-12,14,16 10

W/L2-92 14

W/L2-92 14

W/L2-92 14

W/L2-92 14

W/L2-92 14

W/L1A-19 13 P2/H-S1-7,9,11 11

W/L1A-24 13 P2/H-S1-7,9,11 11

W/L1A-12 13 P2/H-S1-7,9,11 11

W/L1A-20 P2/H-S1-7,9,11 11

W/L1A-27 13 P3/H-S1-10,12,14 11

W/L1A-23 13 P3/H-S1-10,12,14 11

W/L1A-22 13 P3/H-S1-10,12,14 11

W/L1A-13 W/L1A-13 W/L1A-13

(LS6) P4 TS2-5 10

(LS6) P4 TS2-5 10

(LS6) P4 TS2-5 10

(LS6) P4 TS2-5 10

(LS6) P2 TS2-5 10

W/L2-101 10 P2 10 (LS6)

W/L2-102 10 P2 13

1 ELECTRICAL SITE PLAN

3/64" = 1'-0"

NORTH

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PROJECT #25005326.00

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Revision Schedule

NO	DATE	DESCRIPTION
1	03/20/2026	IDPH Response 1
2	03-27-2026	MAJOR SITE PLAN RESUBMITTAL 02

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN

E-002

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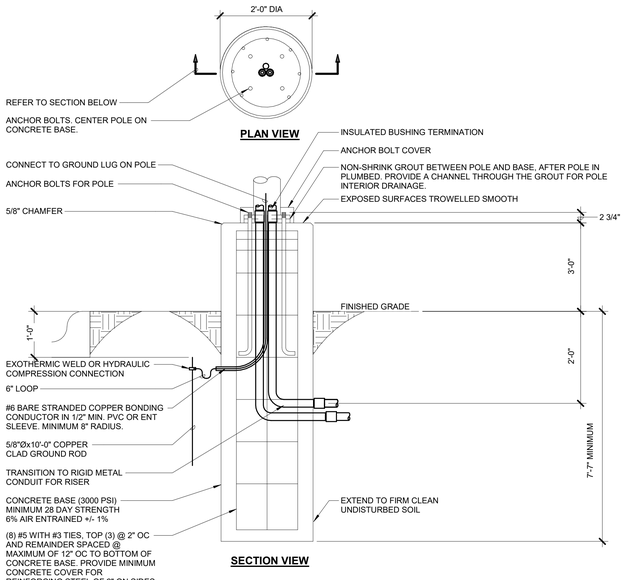
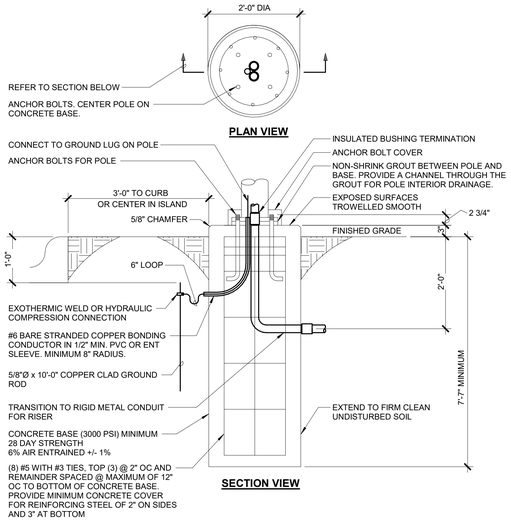


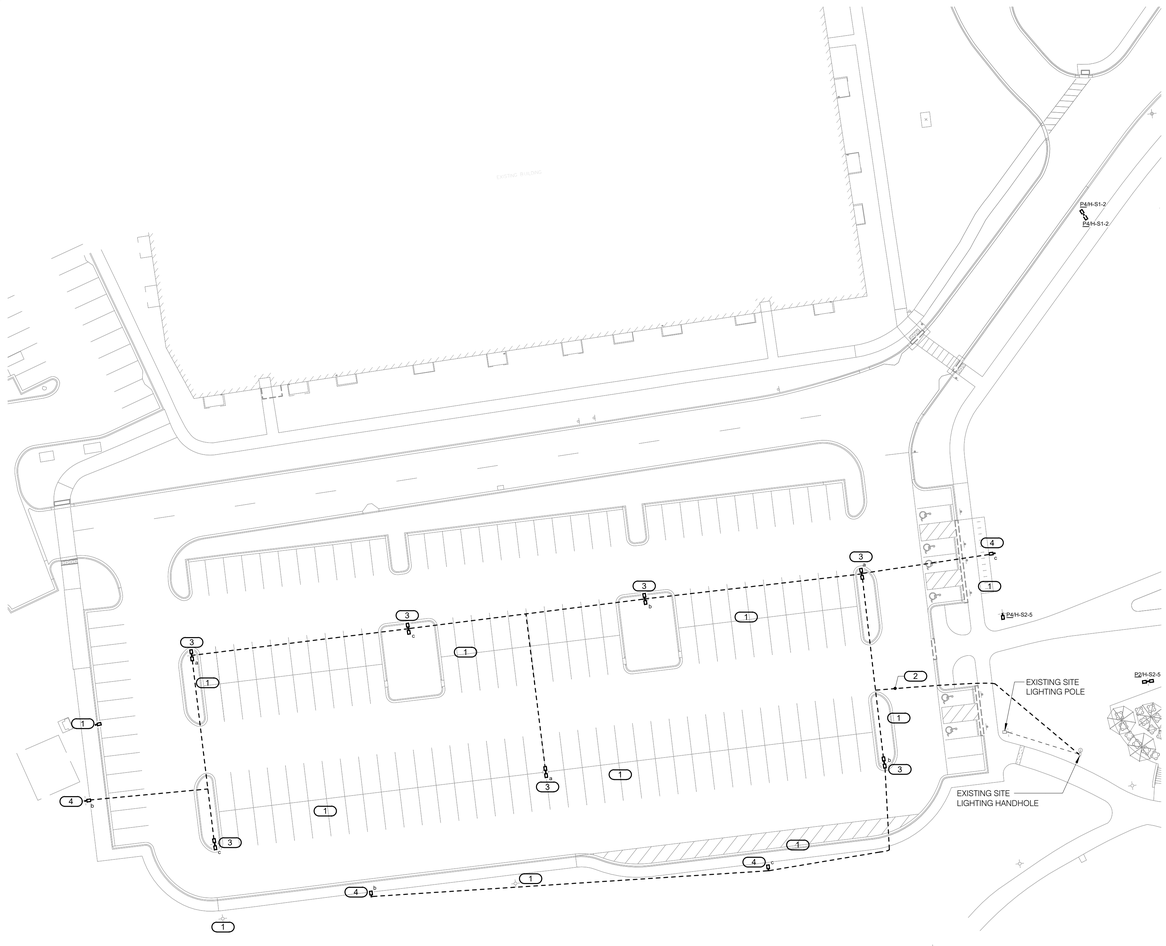
2 EXTENDED POLE BASE DETAIL
NO SCALE



3 POLE BASE DETAIL
NO SCALE

KEYNOTES:

1. EXISTING PARKING LOT POLE LIGHT AND ASSOCIATED CONCRETE BASE TO BE REMOVED. EXISTING POLE AND POLE LIGHT SHALL BE PROTECTED AND RELOCATED TO NEW LOCATION. DURING REMOVAL RECORD CONCRETE BASE DEPTH AND POLE BASE ANCHOR BOLT TYPE AND SPACING TO MATCH FOR NEW LOCATION. POLE BASE DETAIL ON THIS DRAWING SET PROVIDES THE MIN. REQUIREMENTS. EXISTING LIGHTING CIRCUIT SHALL BE REMOVED TO LAST ACTIVE DEVICES OR SITE HANDHOLE. EXISTING CONDUIT CAN BE CUT BELOW GRADE AND ABANDONED IN PLACE.
2. INTERCEPT EXISTING SITE LIGHTING CIRCUIT, WITHIN EXISTING HANDHOLE, SERVING PREVIOUS PARKING LOT FIXTURES. EXTEND EXISTING CIRCUIT(S) AND CONDUIT TO RELOCATE POLE LOCATIONS. MATCH EXISTING CONDUIT AND CONDUCTORS SIZE, USING MINIMUM OF 2#8 & 1#8 EGC IN 1" C. LIGHTING CIRCUITS ARE FED FROM LIGHTING CONTROLLER LOCATED IN CONCESSION BUILDING FIELD STORAGE ROOM. (3) CIRCUITS ARE ASSUMED TO BE SERVING THIS PARKING LOT. CIRCUITS SHALL ALTERNATE WITH EACH FIXTURE AS NOTED BY SITE PLAN SUBSCRIPT 'a', 'b', 'c'.
3. REFER TO EXTENDED POLE BASE DETAIL. POLE BASE DEPTH, WIDTH, AND ANCHOR BOLT LAYOUT SHALL MATCH EXISTING AT PREVIOUS POLE LOCATION. DETAIL PROVIDES MIN. REQUIREMENTS. BASE SHALL BE EXTENDED TYPE WITH LENGTH ABOVE GRADE AS SHOWN ON DETAIL.
4. REFER TO POLE BASE DETAIL. POLE BASE DEPTH, WIDTH, AND ANCHOR BOLT LAYOUT SHALL MATCH EXISTING AT PREVIOUS POLE LOCATION. DETAIL PROVIDES MIN. REQUIREMENTS.



1 ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES
1" = 30'-0"

NORTH

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PROJECT #25005326.00

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES

E-003

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Statistics						
Description	Avg	Min	Max/Min	Avg/Min	Max	Symbol
Drive/Pedestrian Walkway	2.1 fc	0.1 fc	133.0:1	21.0:1	13.3 fc	+
Parking Lot	2.2 fc	0.1 fc	238.0:1	22.0:1	23.8 fc	+



NORTH

1 ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES - PHOTOMETRIC PLAN

1" = 30'-0"

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Revision Schedule

NO.	DATE	DESCRIPTION
2	03-27-2026	MAJOR SITE PLAN RESUBMITTAL 02

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES - PHOTOMETRIC

E-004

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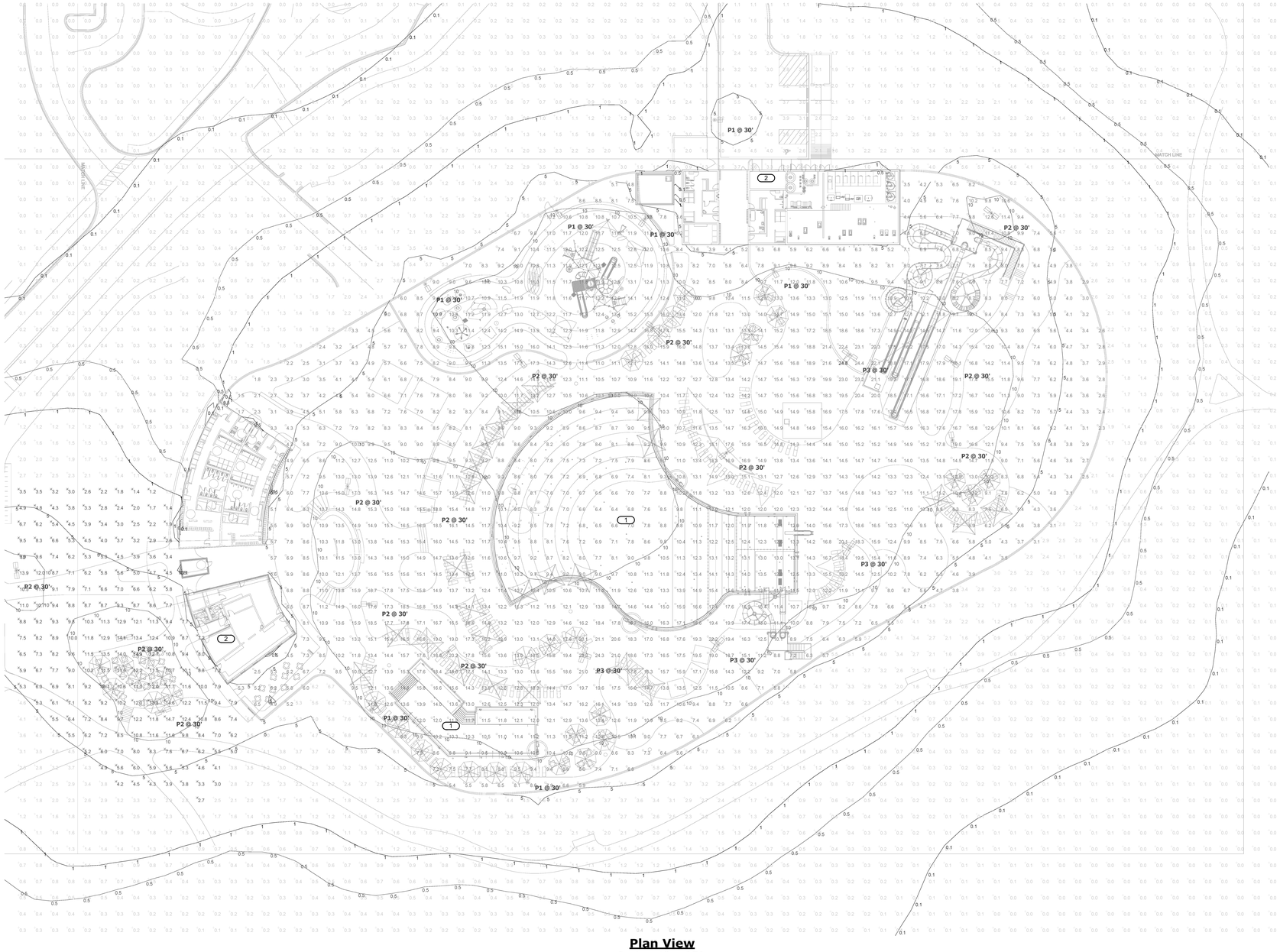

Plan View
Scale - 1" = 25ft

KEYNOTES:

1. REFER TO AQUATIC DESIGNER POOL DRAWINGS FOR IN-POOLING LIGHTING PHOTOMETRICS FOR POOL SURFACE LIGHT LEVELS. POOL 'A' IS PROVIDED WITH 41 IN-POOL LIGHTS AT 3200 LUMENS PER FIXTURE RESULTING IN 8.39 LUMENS/SF. POOL 'B' IS PROVIDED WITH 7 IN-POOL LIGHTS AT 3200 LUMENS PER FIXTURE RESULTING IN 8.79 LUMENS/SF.
2. SITE LIGHTING CONTROLS SHALL FOLLOW SEQUENCE (LS5), REFER TO LIGHTING SEQUENCE OF OPERATIONS ON E-500.

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	P1	7	Lithonia Lighting	DSX2 LED P8 40K 80CRI TFTM	D-Series Size 2 Area Luminaire P8 Performance Package 4000K CCT 80 CRI Forward Throw	1	52804	0.93	462.45
	P2	13	Lithonia Lighting	DSX2 LED P8 40K 80CRI TFTM	D-Series Size 2 Area Luminaire P8 Performance Package 4000K CCT 80 CRI Forward Throw	1	52804	0.93	924.9
	P3	4	Lithonia Lighting	DSX2 LED P8 40K 80CRI TFTM	D-Series Size 2 Area Luminaire P8 Performance Package 4000K CCT 80 CRI Forward Throw	1	52804	0.93	1387.35

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ENTRY AREA	✕	7.5 fc	14.9 fc	1.0 fc	14.9:1	7.5:1
POOL SITE - INSIDE FENCE		11.1 fc	24.8 fc	1.5 fc	16.5:1	7.4:1

NOTES:
1. CALCULATION POINT WORK PLANE: GRADE LEVEL
2. FIXTURE MOUNTING HEIGHT: REFER TO FIXTURE LABELS NOTED ON PLAN

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Illinois Design Firm Registration #184008976-0014

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REF. SCALE IN INCHES
PROJECT #25005326.00

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NOT FOR
CONSTRUCTION

Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN - PHOTOMETRICS

E-005

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D-Series Size 2
LED Area Luminaire

d*series

Catalog Number

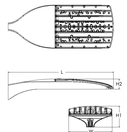
Notes

Type

*Fill the fields to keep with the page in one of interactive sessions.

Specifications

EPA:	1.06 ft²	(0.10 m²)
Length:	40.59"	(103.1 cm)
Width:	14.76"	(43.6 cm)
Height H1:	8.11"	(20.6 cm)
Height H2:	3.96"	(10.1 cm)
Weight:	46 lbs	(20.9 kg)



Design Select options indicated by this color background.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.
The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outdoing photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 1000W HID and expected service life of over 100,000 hours.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
**See ordering tree for details

Ordering Information

EXAMPLE: DSX2 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED

Series	LEDs	Color temperature[1]	Color Rendering Index[1]	Distribution	Voltage	Mounting
DSX2 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 P8 **Rotated optics** P10[2] P13[2] P11[2] P14[2] P12[2]	30K 3000K 40K 4000K 50K 5000K 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[4,5] XVOLT (277V - 480V)[5] 120 [6,7] 208 [6,7] 240 [6,7] 277 [6,7] 347 [6,7] 480 [6,7]	**Shipped included** SPA Square pole mounting (RS drilling) RPA Round pole mounting (RS drilling) SPAS Square pole mounting (RS drilling)[8] RPAS Round pole mounting (RS drilling)[8] SPABN Square narrow pole mounting (RS drilling) WBA Wall bracket[9] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	Finish (required)
Shipped included NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 20-, 15 ft-cd.[6,7] PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [6,7] PER NEMA twist-lock receptacle only (controls ordered separately)[10] PERS Five-pin receptacle only (controls ordered separately)[6,7]	PER7 Seven-pin receptacle only (controls ordered separately)[6,10] FAO Field adjustable output[6,11] BL30 Bi-level switched dimming, 30%[6,7] BL50 Bi-level switched dimming, 50%[6,7] DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)[12] DS Dual switching[6,10,13]	**Shipped separately** EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	**Shipped included** SPD20KV 20KV surge protection HS Houseside shield (black finish standard)[14] L90 Left-rotated optics[1] R90 Right-rotated optics[1] CCE Coastal Construction[15] HA 50°C ambient operation[16] BAA Buy America(n) Act and/or Build America Buy America Qualified SF Single fuse (120, 277, 347V)[6] DF Double fuse (208, 240, 480V)[6] 3G Vibration rated for 3G[17]	**Finish (required)** DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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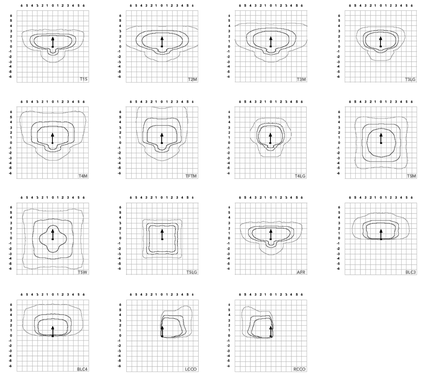
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX2 LED P8 40K 70CRI. Distances are in units of mounting height (MH).

LEGEND
0.1 fc
0.5 fc
1.0 fc



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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.03
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).
To calculate L77, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.82

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	95%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire, wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads.
DS (not available on D580)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as NLMIR.	Pins 4 & 5 to dimming leads on drivers. Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8 to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls ISBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR-enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor override when wirelessly connected to the nLight Ethernet.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRITY Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)				
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	80	530	135	1.12	0.65	0.56	0.49	0.39	0.28
	P2	80	700	181	1.49	0.86	0.75	0.65	0.52	0.37
	P3	80	850	222	1.83	1.05	0.91	0.79	0.63	0.46
	P4	80	1050	277	2.27	1.31	1.14	0.98	0.79	0.57
	P5	80	1250	333	2.72	1.57	1.36	1.18	0.94	0.68
	P6	100	1050	345	2.85	1.64	1.42	1.23	0.98	0.71
	P7	100	1250	414	3.41	1.97	1.70	1.48	1.18	0.85
	P8	100	1400	466	3.85	2.22	1.93	1.67	1.33	0.96
Rotated Optics (Requires L90 or R90)	P10	90	530	152	1.27	0.73	0.63	0.55	0.44	0.32
	P11	90	700	203	1.69	0.97	0.84	0.73	0.58	0.42
	P12	90	850	249	2.06	1.19	1.03	0.89	0.71	0.52
	P13	90	1,000	358	2.95	1.70	1.47	1.28	1.02	0.74
	P14	90	1400	421	3.46	2.00	1.73	1.50	1.20	0.87

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

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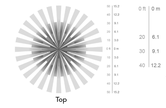
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN





FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration tested per ANSI C136.31 for 1.5G. 3G vibration rated available for (MA) mast arm mount when specifying option 3G. Low EPA (1.06 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L82/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.72" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPAS or RPAS. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

STANDARD CONTROLS
The DSX2 LED area luminaire has a number of control options. DSX Size 2, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS
The DSX2 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL listed for wet locations. Light engines are IP66 rated. luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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LITHONIA LIGHTING.

Catalog Number

Notes

Type

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Square Straight Aluminum is a general purpose light pole for up to 35-foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

CONSTRUCTION —

Pole Shaft: The pole shaft is of uniform wall thickness and is made of extruded 6000 series aluminum alloy tubing that is heat treated to a T6 temper to provide maximum strength. The shaft is uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5", 6" and 6.75".

Pole Top: Options include 4" tall tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. A removable cast aluminum top cap with set screws is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with open top (PT) option. The top cap resists intrusion of moisture and environmental contaminants.

Handhole: A handhole opening with grounding provision is provided near the base. Standard positioning varies with shaft width as follows: 4" shaft, handhole at 12"; 5" shaft, handhole at 14"; 6" and 6.75" shaft, handhole at 18". Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. The handhole for a pole specified with a 4" or 5" shaft width has a nominal dimension of 2" x 4"; the handhole for a pole specified with a 6" or 6.75" width has a nominal dimension of 2.63" x 5". Standard and extra handholes come with cover and attachment hardware.

Bolt Caps/Base Cover: Pole base plate utilizes cast aluminum A365 nut cover discs to cover anchor bolt and nut assembly. 2 piece, spun aluminum base cover available as an option.

Anchor Base/Bolts: Anchor base is cast from A356 alloy aluminum. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end.

HARDWARE — All structural and non-structural fasteners are stainless-steel.

FINISH — Extra durable painted finish is coated with TGIC (Triglycidyl Isocyanurate) Polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes.

GROUNDING: Grounding provision is located in handhole near the base. Grounding hardware is not included (provided by others).

INSTALLATION — **Do not** erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

Anchor Base Poles

SSA

SQUARE STRAIGHT ALUMINUM



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Revision Schedule

NO	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE LIGHTING - CUT SHEETS

E-006

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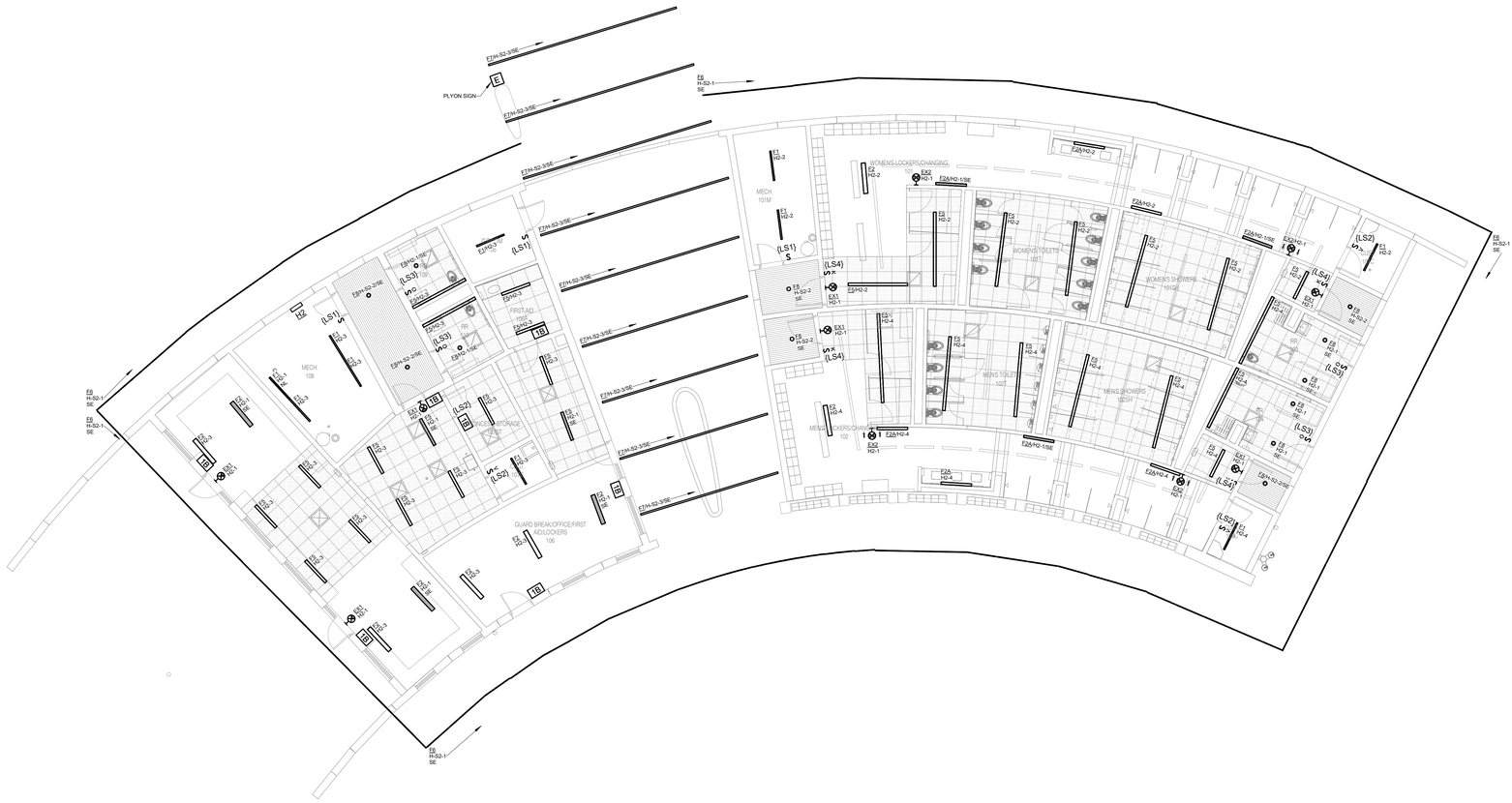
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SCALE

SHEET NOTES:

1. EXTERIOR BUILDING MOUNTED LIGHTING IS CONTROLLED BY LIGHTING SEQUENCE OF OPERATION (LS7), UNLESS NOTED OTHERWISE AT THE FIXTURE.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PLYON SIGN
E7H-52-3/SE
E6 H-52-1 SE
E5 H-52-1 SE
E8 H-52-1 SE
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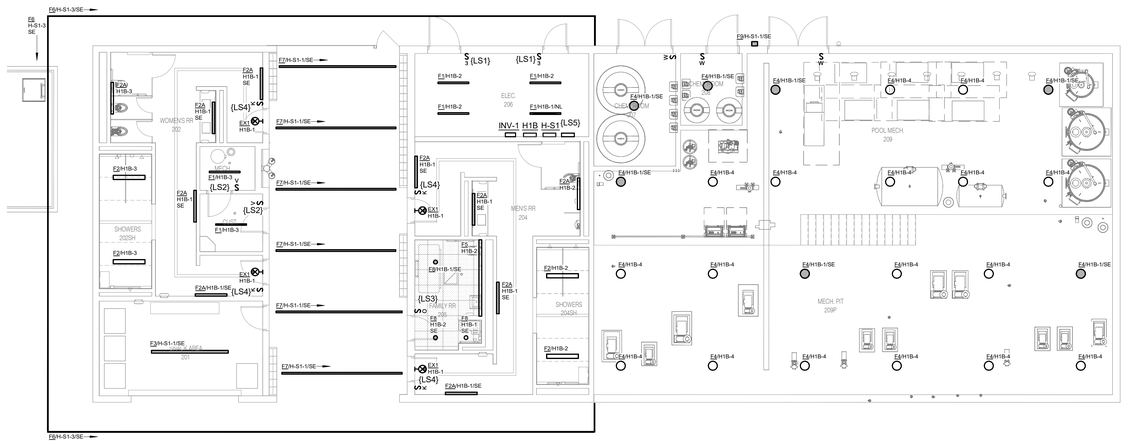
E7H-52-1/SE
E7H-52-3/SE
E7H-52-2/SE
E7H-52-3/SE
E7H-52-3/SE
E7H-52-3

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT BOTH ORIGINAL AND REDUCED SIZES

SHEET NOTES:

1. EXTERIOR BUILDING MOUNTED LIGHTING IS CONTROLLED BY LIGHTING SEQUENCE OF OPERATION (LS7), UNLESS NOTED OTHERWISE AT THE FIXTURE.



1 FIRST FLOOR PLAN - LIGHTING - MECHANICAL & RESTROOM

1/8" = 1'-0"

NORTH

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FIRST FLOOR PLAN - LIGHTING - MECHANICAL & RESTROOM

E-101B

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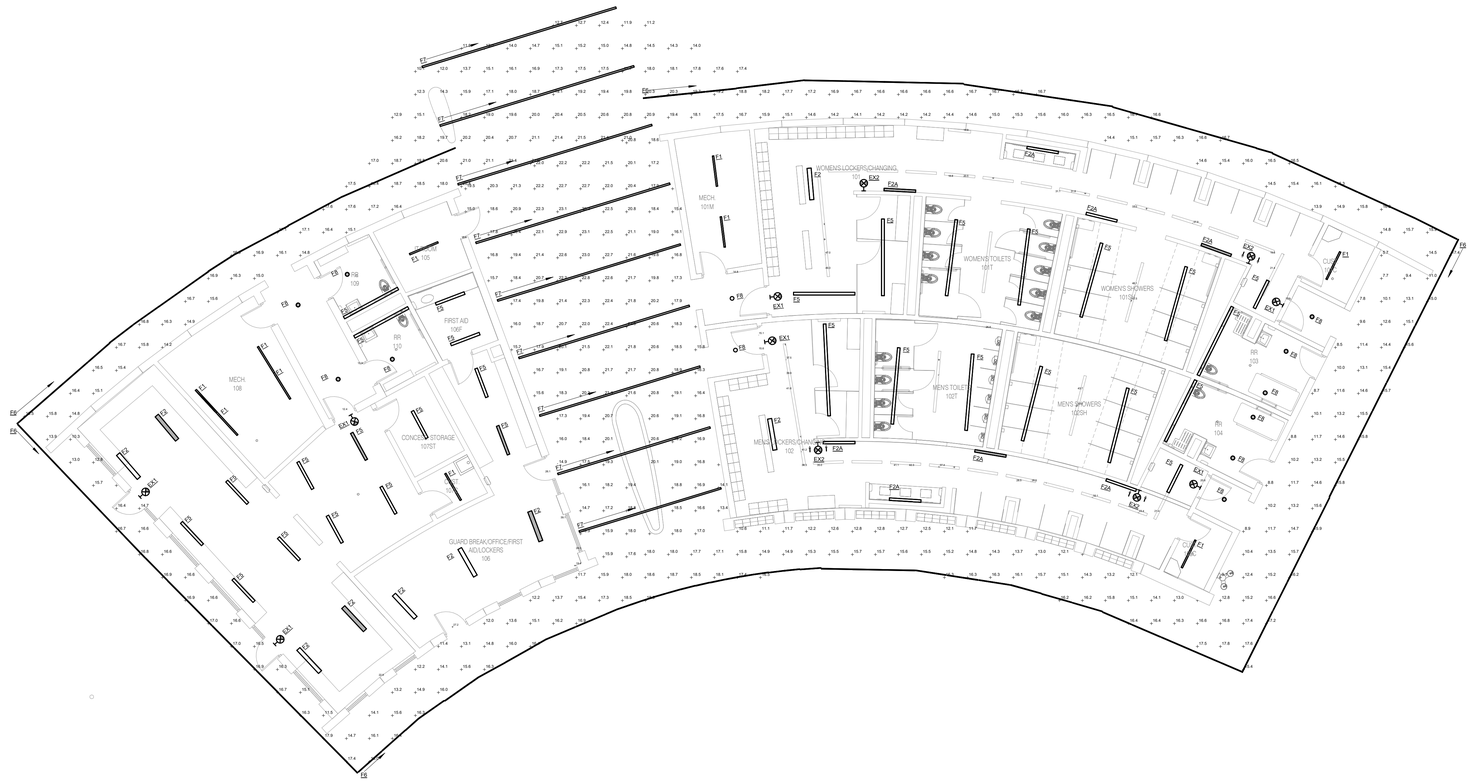
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SCALE ON ORIGINAL DRAWINGS

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CONCESS. STORAGE	+	16.8 fc	19.6 fc	13.5 fc	1.5:1	1.2:1
CONCESSIONS SERVING 107	+	45.5 fc	74.6 fc	20.9 fc	3.6:1	2.2:1
CUST	+	24.6 fc	28.3 fc	19.5 fc	1.5:1	1.3:1
CUSTO 102C	+	24.3 fc	28.5 fc	19.2 fc	1.5:1	1.3:1
ENTRY	+	15.9 fc	16.2 fc	15.7 fc	1.0:1	1.0:1
ENTRY 101A	+	13.5 fc	14.8 fc	9.4 fc	1.6:1	1.4:1
ENTRY 101B	+	15.2 fc	15.6 fc	14.4 fc	1.1:1	1.1:1
ENTRY 101B	+	15.3 fc	15.7 fc	15.1 fc	1.0:1	1.0:1
FIRST AID 106F	+	46.9 fc	58.9 fc	35.0 fc	1.7:1	1.3:1
GUARD BREAK/OFFICE/FIRST AIR/LOCKERS 106	+	36.6 fc	59.0 fc	19.4 fc	3.0:1	1.9:1
IT 105	+	19.3 fc	23.3 fc	15.6 fc	1.5:1	1.2:1
MECH 101	+	25.5 fc	31.4 fc	17.9 fc	1.8:1	1.4:1
MECH 108	+	40.8 fc	57.3 fc	20.1 fc	2.9:1	2.0:1
MENS locker Toilets 102T, Shower 102SH	+	34.5 fc	58.2 fc	14.1 fc	4.1:1	2.4:1
PASSAGE	+	13.1 fc	14.2 fc	8.6 fc	1.7:1	1.5:1
RR 103	+	34.9 fc	47.9 fc	18.9 fc	2.5:1	1.8:1
RR 104	+	31.4 fc	42.1 fc	16.4 fc	2.6:1	1.9:1
RR 109	+	43.0 fc	51.2 fc	31.1 fc	1.6:1	1.4:1
RR 110	+	28.9 fc	35.8 fc	18.0 fc	2.0:1	1.6:1
WOMEN'S LOCKERS/CHANGING 101	+	32.9 fc	54.5 fc	6.3 fc	8.7:1	5.2:1
BUILDING CANOPY	+	15.6 fc	21.9 fc	5.7 fc	3.8:1	2.7:1
WOMEN'S LOCKERS/CHANGING 101	+	19.3 fc	23.2 fc	13.3 fc	1.7:1	1.5:1



NORTH

1 FIRST FLOOR PLAN - LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS

1/8" = 1'-0"

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Illinois Design Firm Registration #184008976-0014

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PROJECT #25005326.00

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WATER TECHNOLOGY, INC.
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Beaver Dam, WI 53916
920.887.7375

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Revision Schedule

NO	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS

E-102A

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED DRAWINGS

Statistics						
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CONCESS. STORAGE	+	16.8 fc	19.6 fc	13.5 fc	1.5:1	1.2:1
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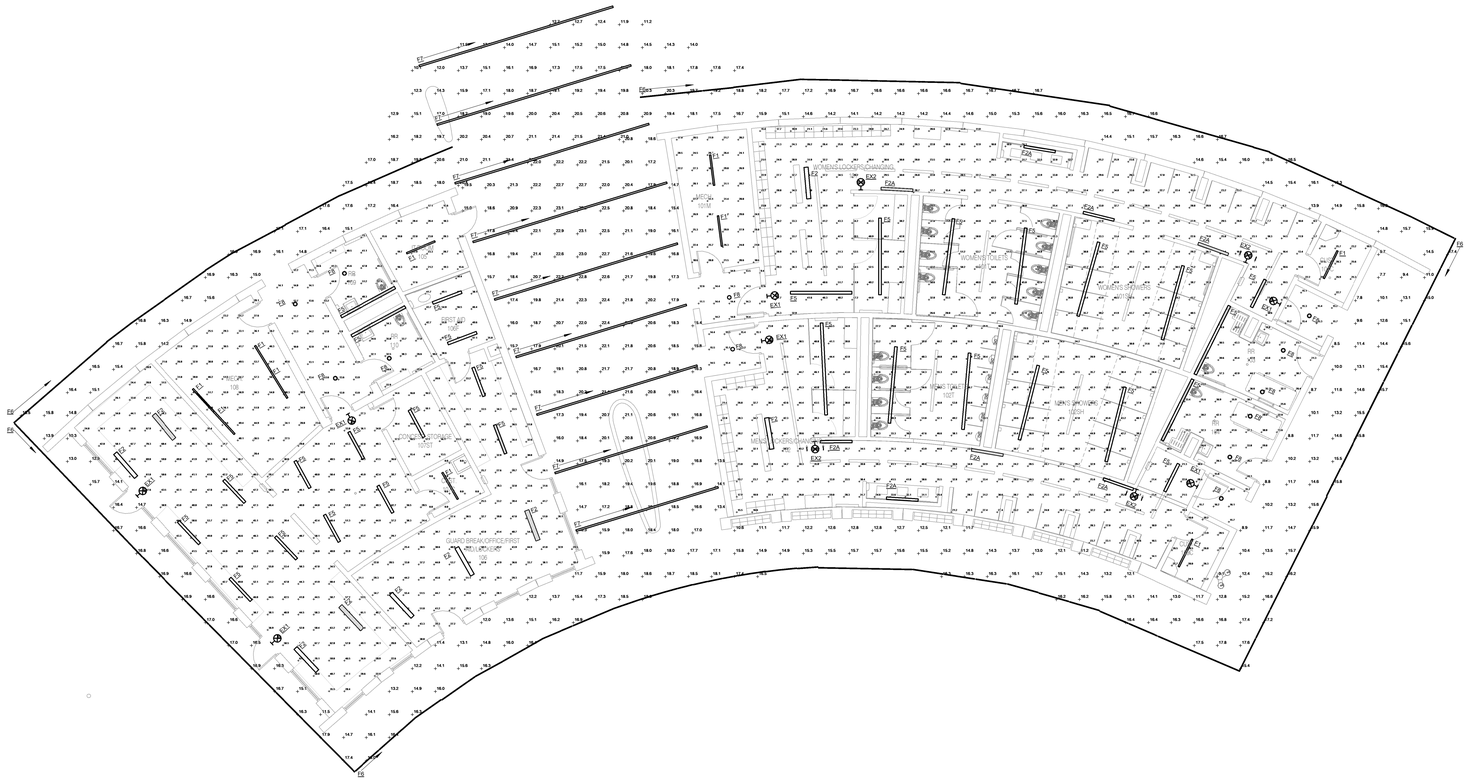
ENTRY 101B	+	15.2 fc	15.6 fc	14.4 fc	1.1:1	1.1:1
ENTRY 101B	+	15.3 fc	15.7 fc	15.1 fc	1.0:1	1.0:1
FIRST AID 106F	+	46.9 fc	58.9 fc	35.0 fc	1.7:1	1.3:1
GUARD BREAK/OFFICE/FIRST AIR/LOCKERS 106	+	36.6 fc	59.0 fc	19.4 fc	3.0:1	1.9:1
IT 105	+	19.3 fc	23.3 fc	15.6 fc	1.5:1	1.2:1
MECH 101	+	25.5 fc	31.4 fc	17.9 fc	1.8:1	1.4:1
MECH 108	+	40.8 fc	57.3 fc	20.1 fc	2.9:1	2.0:1
MENS locker Toilets 102T, Shower 102SH	+	34.5 fc	58.2 fc	14.1 fc	4.1:1	2.4:1
PASSAGE	+	13.1 fc	14.2 fc	8.6 fc	1.7:1	1.5:1
RR 103	+	34.9 fc	47.9 fc	18.9 fc	2.5:1	1.8:1
RR 104	+	31.4 fc	42.1 fc	16.4 fc	2.6:1	1.9:1
RR 109	+	43.0 fc	51.2 fc	31.1 fc	1.6:1	1.4:1
RR 110	+	28.9 fc	35.8 fc	18.0 fc	2.0:1	1.6:1
WOMEN'S LOCKERS/CHANGING 101	+	32.9 fc	54.5 fc	6.3 fc	8.7:1	5.2:1
BUILDING CANOPY	+	15.6 fc	21.9 fc	5.7 fc	3.8:1	2.7:1
WOMEN'S LOCKERS/CHANGING 101	+	19.3 fc	23.2 fc	13.3 fc	1.7:1	1.5:1



1 **FIRST FLOOR PLAN - LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS**
1/8" = 1'-0"

NORTH

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PROJECT #25005326.00

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Revision Schedule

NO	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

LIGHTING
PHOTOMETRICS - BATH
HOUSE & CONCESSIONS

E-102A

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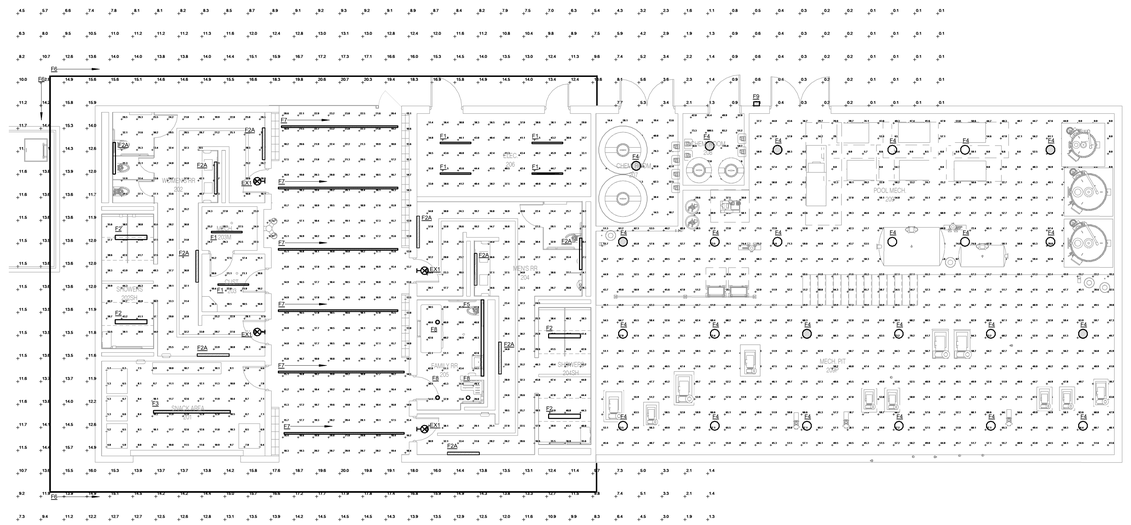

NORTH

1 **FIRST FLOOR PLAN - LIGHTING PHOTOMETRICS - MECHANICAL & RESTROOM**
1/8" = 1'-0"

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CHEM. ROOM 207	+	43.7 fc	133.5 fc	10.7 fc	12.5:1	4.1:1
CHEM. ROOM 208	+	66.6 fc	137.2 fc	26.7 fc	5.1:1	2.5:1
CUST. 203	+	18.5 fc	22.0 fc	15.1 fc	1.5:1	1.2:1
ELEC. 206	+	39.5 fc	46.8 fc	29.0 fc	1.6:1	1.4:1
Exterior Canopy	+	10.0 fc	20.7 fc	0.1 fc	207.0:1	100.0:1
EXTERIOR PASSAGE	+	18.0 fc	23.2 fc	12.9 fc	1.8:1	1.4:1
FAMILY RR 205	+	42.1 fc	51.1 fc	28.8 fc	1.8:1	1.5:1
MECH. 203M	+	25.4 fc	28.3 fc	22.6 fc	1.3:1	1.1:1
MEN RR 204	+	31.6 fc	49.4 fc	14.7 fc	3.4:1	2.1:1
POOL MECH. 209	+	49.2 fc	76.6 fc	0.0 fc	N/A	N/A
SNACK AREA 201	+	9.2 fc	12.9 fc	4.8 fc	2.7:1	1.9:1
WOMEN'S RR 202	+	32.5 fc	49.5 fc	8.5 fc	5.8:1	3.8:1

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

LIGHTING PHOTOMETRICS - MECHANICAL & RESTROOM

E-102B

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D

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F1

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

LED Striplight

ZL1D

24", 48" and 96" Lengths



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T8 lengths. Ideal for use in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install six-point row aligner included for continuous row mounting.

Finish: Paint options include high-gloss, baked white enamel (WH), or matte black (MB). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications (see PLR_ ordering information on page 5). Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page 4 for actual wattage consumption), **multi-volt input and 0-10V dimming standard**. This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

LEDs provide 80CRI or 90 CRI at 3000 K, 3500 K, 4000 K or 5000 K.

Lumen output up to 1,500 lumens per foot. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C).

INSTALLATION — Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Six-point aligner locks in place for easy continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

C US · A+ CAPABLE · DLC LISTED · BAA · BABA

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

COMMERCIAL INDOOR

ZL1D
Page 1 of 7

F2 & F2A

VICTORY® NARROW SERIES

New Star Lighting

PROJECT:
TYPE:
PRODUCT:
APPROVED BY:



VICN Series

PRODUCT FEATURES

- Intended for Public Areas, Corridors, Stairways, Parking Garages, Restrooms, Lobbies, Schools, and more
- Architectural linear luminaire that melds aesthetics, function and vandal resistance
- Extruded aluminum housing with cast aluminum endcaps for durability
- Certified to UL standards by Intertek Testing Laboratories for Wet Locations (under covered ceiling). IK10 Listed per IEC60068. Optional 3G rating
- This product is Made in America and complies with the Buy American Act (BAA)
- The Victory Series is covered by the New Star Promise

Registration No. 7,933,706

INTERTEK · IK10 · BAA · 3G VIBRATION · NEW STAR PROMISE

ORDERING INFORMATION

Example: VIC2N-L235-90C-1C-RW-WH-UN

VIC		N						
Series	Nominal Size* 1 = 1ft 2 = 2ft 3 = 3ft 4 = 4ft *Nominal size. Dimensional data on Page 2.	Style N = Narrow	End Caps blank = Flat End Caps (std) DE = Decorative End Caps	Lumen Output* L1 = Low L2 = Standard L3 = High** CL = Custom Lumens*** *Subject to change. Performance Data on Page 3. **Cannot be used with Occ Sensor. ***N/A with 1ft. Must be specified at time of quote. Must not exceed fixture maximum output.	Color Temp. 35 = 3500K 40 = 4000K 50 = 5000K AMB = Amber	CRI 80C = 80 CRI 90C = 90 CRI	Circuits 1C = 1 Circuit 2C = 2 Circuits* *Allows for inboard/outboard control	Lens RW = .09 Ribbed White Poly. RC = .09 Ribbed Clear Poly. RWC = .156 Ribbed White Poly. RCC = .156 Ribbed Clear Poly.

Finish	Voltage	Driver	Options	Accessory
WH = White CC = Custom Color* *Must specify RAL number at time of order and if antimicrobial finish is needed. Subject to setup fees.	12 = 120V 27 = 277V 34 = 347V UN = Universal (120V-277V)	blank = DMI (Standard 0-10V Dimming with 0-10% range) SD2 = Step. Dimming Driver (50-100%)† SD3 = Step. Dimming Driver (30-70-100%)† †3500K Non-dimming Night Light with integrated switch allows light levels at 100%, 70%, 40% and 10%. Consult factory for 347V. If SD2 and OC are ordered together, fixture operates at 50% when area isunoccupied. Fixture increases to 100% after motion is detected and reverts to 50% after time delay (set by user).	PC = Photocell (N/A decorative end cap)* OC = Occupancy Sensor (N/A decorative end cap)** RM = Row Mount for Field Installation*** EL1 = Emerg. Bat. LED Low (10W)ᵠ EL2 = Emerg. Bat. LED Low (20W)ᵠ LN = LED Night Light' FZ1 = Fuse (120V) FZ2 = Fuse (277V) PH = Phillips Flat Head Screws (3 fasteners on each side) NAT = Natatorium Finish PM = Pendant Mount Install (Stems/Hardware by others) 3G = 3G Vibration Rated Design *N/A with 347 or UN voltage. Refer to Page 1 if ordering with SD2 or SD3. **Refer to Specification Features if ordering with SD2 or SD3 option. Cannot be used with L3 Output. ***Kit includes joining hardware for field installation. If decorative end caps are specified, only end units will have decorative end cap. Consult factory for details. ᵠConsult factory for VIC1 emergency options. '3500K Non-dimming Night Light with integrated switch allows light levels at 100%, 70%, 40% and 10%. Consult factory for 347V. If SD2 and OCare ordered together, fixture operates at 50% when area is unoccupied. Fixture increases to 100% after motion is detected and reverts to 50% after time delay (set by user). 'Consult factory for 347V. If SD3 and OC are ordered together, SD3 will be set at lowest dimming level	CM = Corner Mount Bracket

New Star Lighting
2225 W Pershing Rd, Chicago, IL 60609
(773) 847-1400
www.newstarlighting.com

Specifications and dimensions are subject to change without notice. For additional options and dimensional details, please consult your New Star Lighting representative.

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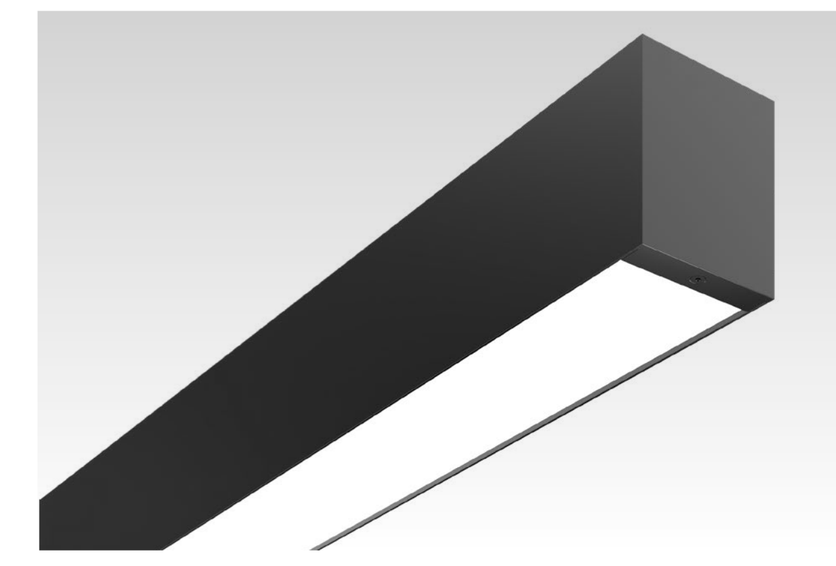
1

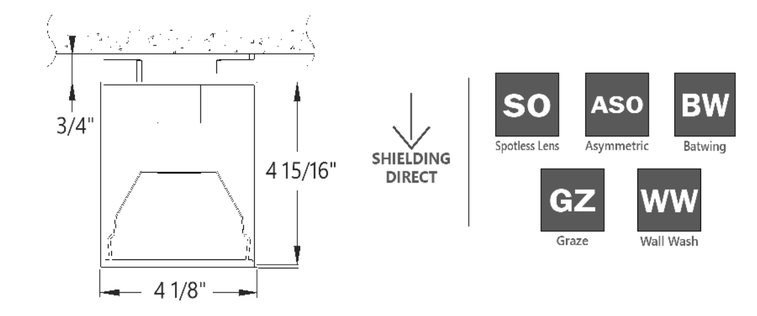
09182025

F3

Extend 4 | Surface mount



Project
Type
Notes



PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1200 lm/ft	10.1 W/ft	111 lm/W	SO
1000 lm/ft	9.9 W/ft	100 lm/W	GZ
1000 lm/ft	9.8 W/ft	102 lm/W	WW
1000 lm/ft	9.8 W/ft	102 lm/W	ASO
1200 lm/ft	12 W/ft	100 lm/W	BW

*Please consult factory for custom lumen output and wattage.

NSF · IK10 · IP66 · cULus

Ordering Guide

PRODUCT ID	NOM.LUMENS/FT	CRI	COLOR TEMP.	SHIELDING
EX4S				
EX4S Extend 4 Surface	**400** 400 lm/ft - Min. **1000** 1000 lm/ft - Max for GZ, WW, ASO.* **1200** 1200 lm/ft - Max.	**80** 80 CRI **90** 90 CRI	**27** 2700 K **30** 3000 K **35** 3500 K **40** 4000 K **50** 5000 K	**SO** spotless lens **GZ** Graze **WW** Wallwash **ASO** Asymmetric **BW** Batwing
	Outputs between listed min and max are available. * 1000 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.			

LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2' **3** 3' **4** 4' **5** 5' **6** 6' **7** 7' **8** 8' **12** 12' **S(L)** System Run	**AP** aluminum paint **W** white **BLK** black **C** custom	**120** 120 V **277** 277 V **347** 347 V **UNV** universal	**DP** dimming (0-10V) 1% temp. range -22°F - +104°F (-30°C - +40°C) **DPX** dimming (0-10V) 1%, extended temp. range -40°F - +122°F (-40°C - +50°C) **LT(#)** Lutron* **BI** bi-level dimming **O(#)** other*	**1** 1 circuit **2** 2 circuits **+E(#)** emergency circuit* **+NL(#)** night light circuit* **+GTD(#)** generator transfer device* **
Lengths are nominal. Exact lengths can be specified, please consult factory.			Integral drivers standard, remote drivers available for environments outside of driver operating temperature range or where fixture access may be limited. See page 2 for more details. * Please consult factory; see page 2.	* Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	IC CONTROLS (OPTIONAL)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
SB surface bracket **S** surface ceiling* **SBBP** surface bracket with bird protection	**B(#)** battery pack (integral)* **BR(#)** battery pack (remote)**	**OS(#)** occupancy sensor	**+EF** end feed* **+N** natatorium finish	**C** custom
* Requires opening fixture for installation.	*Minimum 3ft; **Dry/Damp location only. Please consult factory.	See integrated controls guide for further details Please consult factory	* End Feed standard for S mounting	Please specify

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

1 / 6
November 18, 2025

FILE NAME:EX4S.SPEC

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axis axislighting.com

F4

HJCR Series

The SENTINEL™

Hazardous Location LED Lighting

HazLoc HAZARDOUS LOCATION



SOLAS RAY™ LIGHTING

5935 West 84th St. | Indianapolis, IN 46278 | 1-888-391-4822 | www.SolasRay.com

Cat. #	Type
Notes	

CERTIFICATIONS / RATINGS

UL844 · UL924 · CERTIFIED UL 1598 · IP66 · IP67 · MARINE UL 1598 A · DLC LISTED · IK08 IMPACT RATING · IK10 IMPACT RATING** · ABS · CSA C22.2 No. 137-18 · CSA C22.2 No. 250.0

CLASS / DIVISION

- Class I, Div 1, Groups C, D
- Class II, Div 1, Groups E, F, G
- Class III
- Class I, Div 2, Groups A, B, C, D
- Class II, Div 2, Groups F, G

KEY FEATURES AND BENEFITS

- Ambient temperature capabilities: -40°C (-40°F) to 60°C (140°F)
- * DLC V5.1 Standard (4000K/5000K / 120° models only).
- Internal EM battery option (15W / 90 min).
- ** Impact Resistance: IK08 (standard lens) / IK10 (glass globe with wire guard).
- Corrosion proof - coated copper free aluminum alloy housing.
- Gray nylon corrosion resistant powder coating.
- Optional reflective hoods available.
- 0-10V dimming option available.
- 1000 hours salt spray test passed.

SPECIFICATIONS

Voltage	120-277 VAC / 347-480 VAC	T-Rating	T4
Wattage	40W / 60W / 80W / 100W / 150W / 200W / 250W / 280W	Lifetime	100,000+ hrs L_{70}
Color Temp	4000 / 5000 Kelvin	CRI	>70
Housing	Coated copper free aluminum alloy	Beam Angles	120° / 90° / 60° / 40°
Color	Gray	Efficacy	140 lm/W
Lens	Tempered glass	Entrance Thread	3/4" NPT
Ambient Temperature	-40°C (-40°F) to 60°C (140°F) (-10°C to 60°C with EM Battery)	Protection	IP66 / IP67
		Warranty	5 Year Limited Warranty - Fixture 3 Year Limited Warranty - Battery

LUMENS

40W	60W	80W	100W	150W	200W	250W	280W
5,600	8,400	11,200	14,000	21,000	28,000	35,000	39,200

PRODUCT ORDERING SELECTION

HJCR1L – ☐ – ☐ – ☐ – ☐ – ☐ – ☐

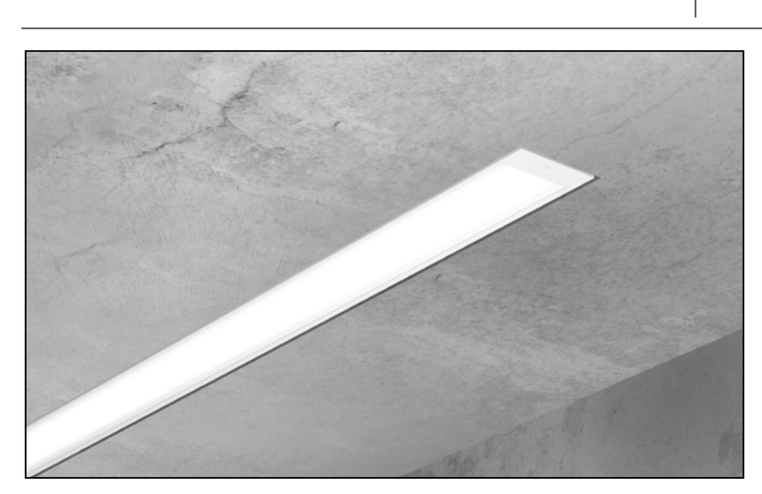
Series	Watts	Kelvin	Voltage	Beam Angle	Mounting Options	Other Options
☑ HJCR1L	☐ 040 - 40W ☐ 060 - 60W ☐ 080 - 80W ☐ 100 - 100W ☐ 150 - 150W ☐ 200 - 200W ☐ 250 - 250W ☐ 280 - 280W	☐ 40 - 4000K ☐ 50 - 5000K	☐ U - 120-277 VAC ☐ 48 - 347-480 VAC	☐ 120 - 120° (Std) ☐ 90 - 90° ☐ 60 - 60° ☐ 40 - 40°	☐ HJTB - Trunnion Bracket ☐ HJCJB - Ceiling Junction Box ☐ HJPP - Pendant Pipe ☐ HJWA - Wall Arm ☐ HJPS90 - 90° Pole Stanchion ☐ HJPS25 - 25° Pole Stanchion ☐ HJW90 - 90° Junction Box Wall Arm ☐ HJW25 - 25° Junction Box Wall Arm	☐ HJDR - Dome Reflective Hood* ☐ HJAR - Angled Reflective Hood* ☐ GL-HJGU - Glass Globe with Wire Guard ☐ DIM - 0-10V Dimming ☐ EM - Emergency Battery Backup- 15W (100W and up / 120-277VAC models only) *Hoods not available for 200W and above.

HAZ SENTINEL 5.25 SI-08130

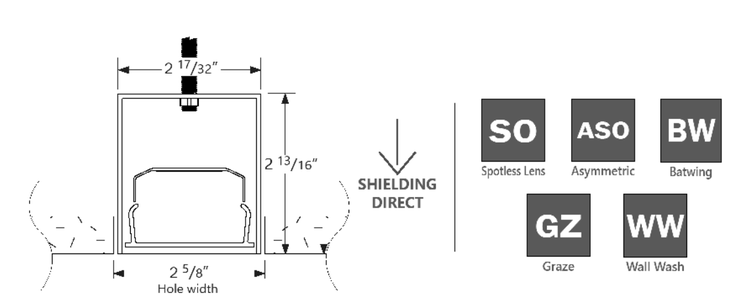
Specifications and data are subject to change without notice.

F5

Extend 2 | Recessed mount



Project
Type
Notes



PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1000 lm/ft	9.8 W/ft	101 lm/W	SO
750 lm/ft	7.2 W/ft	103 lm/W	GZ
750 lm/ft	7.4 W/ft	101 lm/W	ASO
1000 lm/ft	9.7 W/ft	102 lm/W	BW
750 lm/ft	7.4 W/ft	101 lm/W	WW

*Please consult factory for custom lumen output and wattage.

IC cULus Listed Type I.C. · NSF · IK10 · IP66 · cULus

Ordering Guide

PRODUCT ID	NOM. LUM/FT	CRI	COLOR TEMP. (choose one)	SHIELDING DIRECT
EX2R				
EX2R Extend 2 Recessed	**300** 300 lm/ft - min **750** 750 lm/ft - max for GZ, WW, ASO* **1000** 1000 lm/ft - max	**80** 80 CRI **90** 90 CRI	**27** 2700 K **30** 3000 K **35** 3500 K **40** 4000 K **50** 5000 K	**SO** spotless lens **GZ** graze **WW** wallwash **ASO** asymmetric **BW** batwing
Ships with 7/8" hole standard for power connection by others if no optional power feed is specified, see page 3 for details.	Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.			Choose only one of the options above;

LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTING
2 2' **3** 3' **4** 4' **5** 5' **6** 6' **7** 7' **8** 8' **12** 12' **S(L)** System Run	**AP** aluminum paint **W** white **BLK** black **C** custom	**120** 120 V **277** 277 V **347** 347 V* **UNV** universal	**DP** dimming (0-10V) 1% temp. range (-30°C - +40°C) **DPX** dimming (0-10V) 1%, extended temp. range (-40°C - +50°C) **LT(#)** Lutron* **BI** bi-level dimming **O(#)** other*	**1** 1 circuit **2** 2 circuits **+E(#)** emergency circuit* **+NL(#)** night light circuit* **+GTD(#)** generator transfer device* **	**DF** flange **D** flangeless **DS** drywall spackle flange
Lengths are nominal. Exact lengths can be specified, please consult factory.		*Remote surge protection device only	*Please consult factory; see page 2.	*Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.	

BATTERY (OPTIONAL)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
B(#) battery pack (integral)* **BR(#)** battery pack (remote)**	**+TF** top feed* **+EF** end feed* **+N** natatorium finish	**C** custom
*Minimum 3ft; **Dry/Damp location only. Please consult factory.	7/8" diameter top power feed hole provided standard. See page 3 for more details. *Comes with liquid tight connector and 10ft of plenum rated power cable. Not available for 347 V.	Please specify

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

1 / 6
October 23, 2025

FILE NAME: EX2R.SPEC

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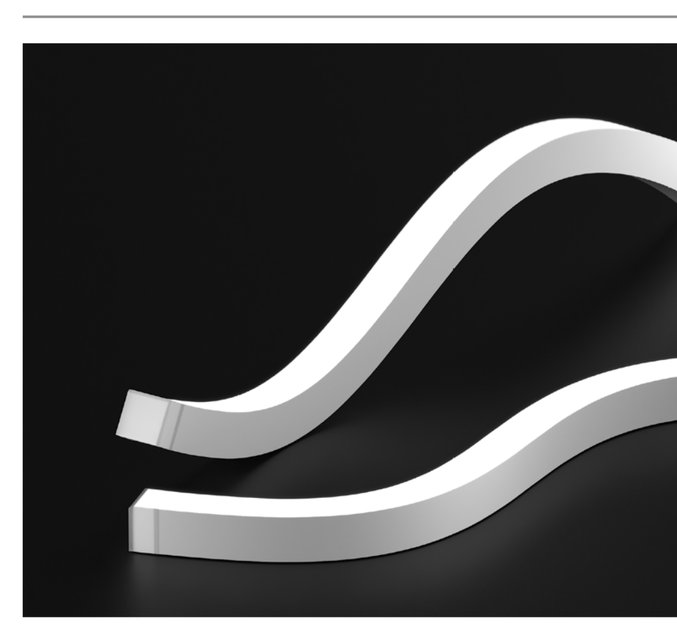
axis axislighting.com

F6

Kurba Max Horizontal and Vertical | Field Bendable 24V System

optic arts by luminii



Features

Kurba Max is a dot free direct view, highly versatile, energy efficient and flexible LED strip suitable for outdoor wet locations capable of horizontal/side bends and vertical/top bends with a 8" bending radius. The silicone material offers excellent heat, weather, UV, and solvent resistance and has a special coating to repel dust and dirt accumulation.

Applications
Indoor/Outdoor dry & wet location

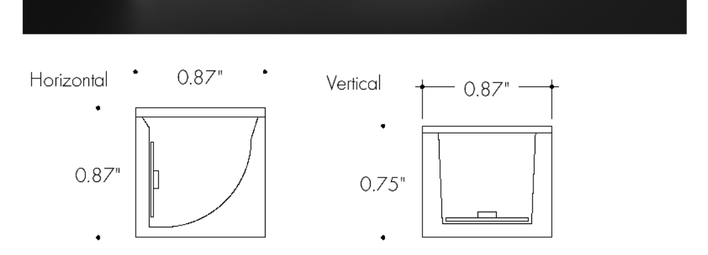
Materials
Silicone for red list approved, as well as heat, weather, UV, and solvent resistance

Dimming
Dimable down to 1%. Dot Free even illumination. Also available with Black Lens

Average Life (L70)
50,000 hours

Approvals
24VDC Class 2 wet listed, IP68

Warranty
3 years



Finish Options (see page 2 for additional information)
Base — White

TITLE 24 JA8 COMPLIANT · RoHS · CE · cULus LISTED · DIM · Declare. · IP68

Technical Information

Bending Direction	Horizontal		Vertical	
Output	43SO	44HO	43SO	44HO
Light Output at 3000K, 80CRI	335 lm/ft	437 lm/ft	396 lm/ft	536 lm/ft
Average Power Consumption at 4'	5.03 W/ft	5.03 W/ft	5.03 W/ft	5.03 W/ft
Efficacy	67 lm/W	87 lm/W	79 lm/W	107 lm/W
Ordering Increment	1.97"	2.19"	1.97"	2.19"
Maximum Run Length (In Series)	19'	19'	19'	19'
Operating Temperature Range	-40°F to 113°F	-40°F to 113°F	-40°F to 113°F	-40°F to 113°F

CCT INFO / LUMEN MULTIPLIER
(ref. -3000K)

Bending Direction	Horizontal		Vertical	
CRI	80 CRI	90 CRI	80 CRI	90 CRI
2200K	0.95	0.74	0.94	0.75
2700K	0.99	0.81	0.99	0.81
3000K	1.00	0.80	1.00	0.80
3500K	1.01	0.80	1.01	0.80
4000K	1.08	0.82	1.08	0.82

Ordering Code

MODEL	BEND DIRECTION	LENGTH	OUTPUT¹	CCT	CRI	LENS	MOUNTING	FINISH	FEED POSITION LEFT	FEED POSITION RIGHT
KBX-W - Kurba Max Wet	HB - Horizontal Bending VB - Vertical Bending	SEE PCC CHART ON PAGES 7 - 8	43SO - Standard 44HO - High	22K - 2200K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	R80 - 80 CRI R90 - 90 CRI	SF - Silicone Frosted	NA - See Page 6 for orderable mounting accessories	WH - White	INJECTION MOLD IME - End Feed 1 IMB - Back Feed 1 IMSA - Side A Feed IMSB - Side B Feed² NPF - No Power Feed³	INJECTION MOLD IME - End Feed 1 IMB - Back Feed 1 IMSA - Side A Feed IMSB - Side B Feed² NPF - No Power Feed³

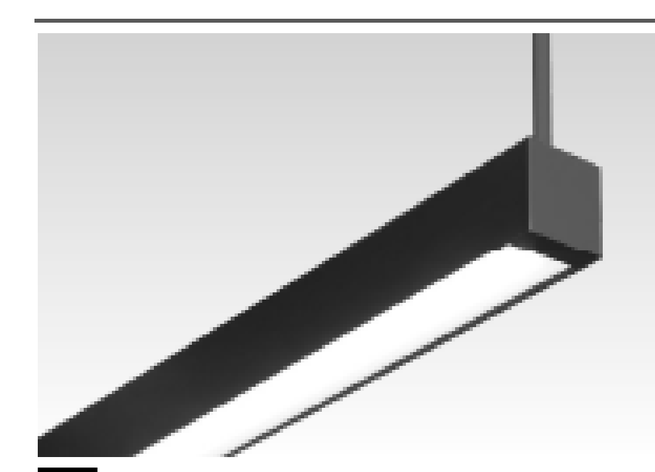
Feeds come with 118" wire leads

1 - Title 24 JA8 compliance achievable, contact factory for specific requests 2 - IMSB - Side B Feed not available with HB - Horizontal Bending 3 - NPF-NPF for Feed Position 1&2 is not a valid configuration option

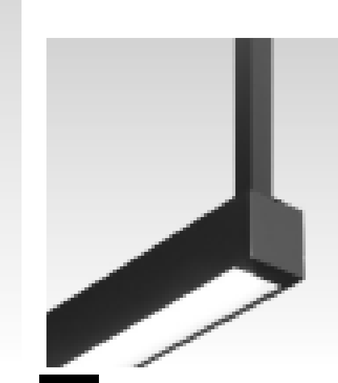
1 | 12 REV0.209252025 *LUMINII RESERVES THE RIGHTS TO CHANGE SPECIFICATION & INSTRUCTION WITHOUT NOTICE www.luminii.com T: 224-333-6033

F7

Extend 2 | Pendant mount

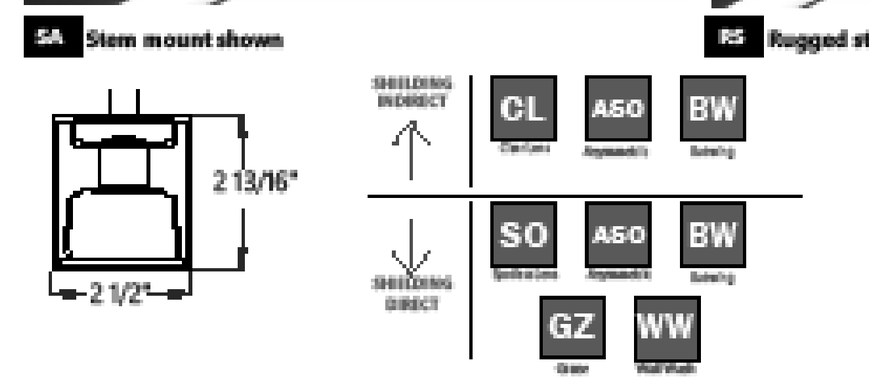


SA Stem mount shown



RS Rugged stem shown

Project
Type
Notes



PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT UP	NOMINAL LUMEN OUTPUT DOWN	INPUT WATTS*	EFFICACY	SHIELDING
1200 lm/ft		8.5 W/ft	140 lm/W	CL
1200 lm/ft		9.6 W/ft	125 lm/W	BW
1200 lm/ft		9.1 W/ft	132 lm/W	ASO
	1000 lm/ft	9.8 W/ft	101 lm/W	SO
	750 lm/ft	7.2 W/ft	103 lm/W	GZ
	750 lm/ft	7.4 W/ft	101 lm/W	ASO
	1000 lm/ft	9.8 W/ft	102 lm/W	BW
	750 lm/ft	7.4 W/ft	101 lm/W	WW

*Please consult factory for custom lumen output and wattage.

NSF · IK10 · IP66 · cULus

Ordering Guide

PRODUCT ID	NOM. LUM/FT UP Skip selection for EX2PD	NOM. LUM/FT DOWN Skip selection for EX2PI	CRI	COLOR TEMP. (choose one)	SHIELDING UP Skip selection for EX2PD	SHIELDING DOWN Skip selection for EX2PI
EX2PDI Extend 2 Pendant Direct / Indirect **EX2PD** Extend 2 Pendant Direct **EX2PI** Extend 2 Pendant Indirect	**300** 300 lm/ft - min **1400** 1400 lm/ft - max	**300** 300 lm/ft - min **750** 750 lm/ft - max for GZ, WW, ASO* **1000** 1000 lm/ft - max	**80** 80 CRI **90** 90 CRI	**27** 2700 K **30** 3000 K **35** 3500 K **40** 4000 K **50** 5000 K	**CL** Clear lens **BW** Batwing **ASO** Asymmetric	**SO** Spotless lens **GZ** Graze **WW** Wallwash **ASO** Asymmetric **BW** Batwing
	Outputs between listed min and max are available.Consult factory for outputs outside of the listed range.	Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.				

LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2' * **3** 3' **4** 4' **5** 5' **6** 6' **7** 7' **8** 8' **12** 12' **S(L)** System Run	**AP** aluminum paint **W** white **BLK** black **C** custom	**120** 120 V **277** 277 V **347** 347 V* ** **UNV** universal	**DP** dimming (0-10V) 1% temp. range -22°F - +104°F (-30°C - +40°C) **DPX** dimming (0-10V) 1%, extended temp. range -40°F - +122°F (-40°C - +50°C)** **LT(#)** Lutron* ** **BI** bi-level dimming** **O(#)** other* **	**1** 1 circuit **2** 2 circuits **+E(#)** emergency circuit* **+NL(#)** night light circuit* **+GTD(#)** generator transfer device* **
Lengths are nominal. Exact lengths can be specified, please consult factory. * Not available with EX2PDI.		*Remote surge protection device only. **Not available with EX2PDI.	Integral drivers standard, remote drivers available for environments outside of driver operating temperature range or where fixture access may be limited. See page 2 for more details. * Please consult factory; see page 2. **Remote only with EX2PDI.	*Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
SA(#) drywall+stem length <36" (18" std.) **SASL(#)** drywall stem sloped ceiling* **RS(#)** rugged stem (for stem length above 36", or for any stem length in extreme conditions)	**B(#)** battery pack (integral)* *** **BR(#)** battery pack (remote)**	**+EF** end feed* **+TF** top feed* ** **+N** natatorium finish	**C** custom
See Mounting kit guide for full specification code. White canopy standard * Not recommended for outdoor applications.	*Minimum 3ft; **Dry or damp location. Please consult factory. ***Not available with EX2PDI.	* See page 3 for more details. ** Not available with EX2PDI or EX2PI.	Please specify

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

1 / 10
November 18, 2025

FILE NAME:EX2Px.SPEC

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1 2 3 4 5

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CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

IMEG
263 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320
www.imegcorp.com

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Illinois Design Firm Registration #184008976-0014

0 1 2 3
REF. SCALE IN INCHES   PROJECT #25005326.00

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

INTERIOR LIGHTING - CUT SHEETS

E-103

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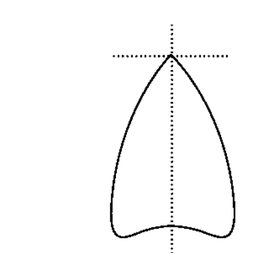
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

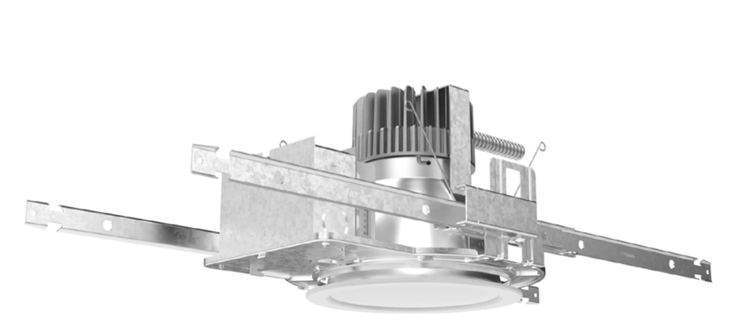
F8

gotham® | EVO®
Multiple Layers of Light



Luminaire Type:
Catalog Number:

General Illumination Shower Downlight 6"



OVERVIEW

Feature Set

- Wipe down flush or regressed lens
- NSF2 Splash/Non-food Zone
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam ellipse; 85 CRI typical, 90+ CRI optional
- IP66 rated room-side, Fixtures are wet location, covered ceiling
- Anti-microbial paint finish, optional
- Non-conductive dead-front trim
- Suitable for steam room application
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. UGR FAQ

Distribution

medium wide
1.0 S:MH

Superior Performance (Flush, Clear Lens)

Nominal Lumens	1000	1500	2000	2500	3000	3500	4000	4500
Delivered	857	1274	1729	2187	2624	3062	3499	3745
Wattage	9.6	14.7	19.7	24.7	29.5	33.8	39.0	48.6
Efficacy	89.3	86.7	87.8	88.5	88.9	90.6	89.7	52.0

*Lumen output for 80CRI - 3500K

COMPLIMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core: Downlight, Adjustable, Open Wallwash, Lensed Wallwash, Cylinder, Pinhole, Bevel, Hyperbolic

Healthcare: MRI, Surgical Suite, Patient Room

Special Applications: Dynamic, Food Service, Vandal/Tamper, Clean Room, Shower, Steam Room

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1 Acuity Way, Decatur, GA 30035 | P 800-705-SERV (7378) | gothamlighting.com
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F9



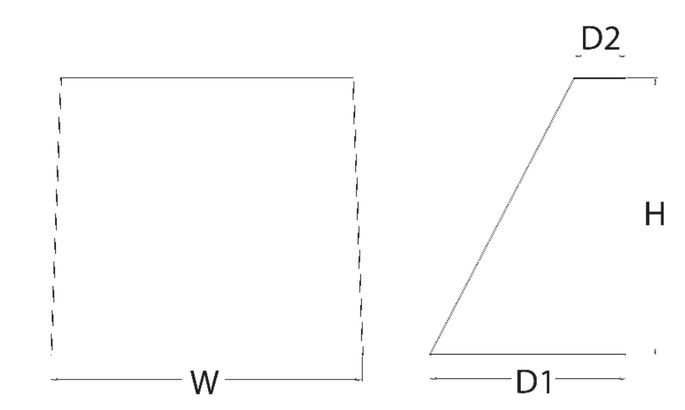
WDGE1 LED
Architectural Wall Sconce

Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1):	5.5"
Depth (D2):	1.5"
Height:	8"
Width:	9"
Weight: (without options)	9 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

design select — Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI) P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	6,000	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P0 P1 P2	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K[1] 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347[2]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[3] **Shipped separately** AWS 3/8inch Architectural wall spacer[4] PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.[4]

Options	
E4WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)[5]
PE	Photocell, Button Type[6]
DS	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)[7]
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
DSLE	Dual Switching (1 Driver, 2 Light Engines)
CCE	Coastal Construction[4]

Finish			
DDBXD	Dark bronze	DDBTXD	Textured dark bronze
DBLXD	Black	DBLBXD	Textured black
DNAXD	Natural aluminum	DNATXD	Textured natural aluminum
DWHXD	White	DWHGXD	Textured white
DSSXD	Sandstone	DSSTXD	Textured sandstone

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EX1 & EX2

LITHONIA LIGHTING®

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for wet location areas requiring exit signs for AC only or battery back-up power that are subject to saturation with non-mechanically delivered water. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — White, compact, contemporary design. Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. Universal directional Chevron inserts are easily removed and reinserted. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources. Rugged, heavy-duty, polycarbonate clear housing lens. Housing also available in black or gray. Letters 6" high with 3/4" stroke, with 100 ft. viewing distance rating, based upon UL924 standards.

OPTICS — Low energy consumption — fewer than 5 watts. The typical life of the exit LED lamp is 5 years, based on 24/7 operation.

ELECTRICAL — Dual voltage input capacity (120/277V).

Battery: (EL Option) – Sealed, maintenance free nickel-cadmium battery delivers 90 minutes rated capacity. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Self-diagnostic testing (SD Option Only) for 30 seconds every 30 days, 30 minutes every 180 days and a 90-minute annual test. Diagnostic evaluation of LED light source, charging and battery condition.

INSTALLATION — Universal mounting canopy for top or end mount. Back mount standard for single face only. Junction box hole pattern for 4" octagon mounting. Flexible conduit entry.

LISTINGS — UL listed. Wet location listed. Standard cold temperature rating -4°F to 122°F (-20°C to 50°C). Meets UL 924, NFPA 101 (current Life Safety Code) and NFPA 70-NEC, Meets all applicable FCC Title 47, Part 15, Subpart B requirements.

WARRANTY — 5-year limited warranty. (Battery is prorated.) This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

Indura®
Wet Location Exit Sign

WLTE



White

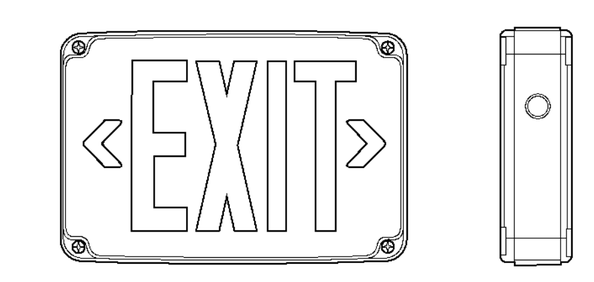


Gray

Specifications

Length: 12-1/2 (31.8)
Depth: 2-1/2 (6.4)
Height: 8-1/8 (20.6)
Weight: 4.1 lbs (1.9 kg)

All dimensions are inches (centimeters) unless otherwise indicated.



ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: WLTE W 1 R EL

WLTE					
Series	**Housing color**	**Number of faces**	**Letter color**	**Operation**	**Options**
WLTE	W White B Black GY Gray	1 Single face 2 Double face	R Red G Green	(blank) AC only EL Nickel-cadmium battery	TP Tamper-resistant screw hardware SD Self-diagnostics[1]

Accessories: *Order as separate catalog number.*[2]	
ELA WG1	Wireguard (back mount only)

Notes
1 Only available with EL option.
2 See spec sheet ELA-WG.

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920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

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Illinois Design Firm Registration #184008976-0014

REF. SCALE IN INCHES 0 1 2 3 PROJECT #25005326.00

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

INTERIOR LIGHTING - CUT SHEETS

E-104

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

LUMINAIRE SCHEDULE LEGEND

DESCRIPTION:

PAF - PAINT AFTER FABRICATION

CFSA - COLOR FINISH SELECTION BY ARCHITECT

CCFSA - CUSTOM COLOR FINISH SELECTED BY ARCHITECT

CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER

OPTICS:

BEAM ANGLE

##° or ## DEG - BEAM ANGLE IN DEGREES

VNSP - VERY NARROW SPOT | **NFL** - NARROW FLOOD

NSP - NARROW SPOT | **FL** - FLOOD

SP - SPOT | **WFL** - WIDE FLOOD

WSP - WIDE SPOT | **VWF** - VERY WIDE FLOOD

VWSP - VERY WIDE SPOT

MOUNTING (MTG):

CL - CEILING	**P** - PERIMETER	**SU** - SURFACE
CV - COVE	**PL** - POLE	**UC** - UNDER CABINET
G - GROUND SURFACE	**RE** - RECESSED	**WL** - WALL
IG - IN GRADE	**SP** - SUSPENDED	**O** - OTHER (SEE DESCRIPTION)

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS. REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS, AND DETAILS FOR LUMINAIRE MOUNTING LOCATIONS AND REQUIREMENTS.

MOUNTING HEIGHTS INDICATED IN THE SCHEDULE ARE TO THE BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.

DIMENSIONS:

L - LENGTH **W** - WIDTH **H** - HEIGHT **D** - DEPTH **Ø** - DIAMETER

VAR. - DIMENSION VARIES, SEE ARCHITECTURAL PLANS.

LIGHT SOURCE:

SOURCE TYPE
LED - INTEGRAL LIGHT EMITTING DIODE
DLED - DYNAMIC TUNABLE WHITE LED
RLED - RETROFIT LED LAMP
WLED - WARM DIM LED

CCT / CRI
INTERIOR CORRELATED COLOR TEMPERATURE [2700, 3000, 3500, 4000/4100]K, COLOR RENDERING INDEX (CRI) AT OR ABOVE [80, 85, 90], UNLESS NOTED OTHERWISE.
EXTERIOR CORRELATED COLOR TEMPERATURE [2700, 3000, 3500, 4000/4100]K, COLOR RENDERING INDEX (CRI) AT OR ABOVE [80, 85, 90], UNLESS NOTED OTHERWISE.

DELIVERED LUMENS:

LUMENS INDICATED ARE MINIMUM INITIAL DELIVERED LUMENS AT SPECIFIED CCT AND CRI.

WATTS:

MAXIMUM ANSI WATTS PER: (BLANK) = PER LUMINAIRE **FT** = LINEAR FOOT **LAMP** **POLE**

POWER SUPPLY:

PS TYPE
(BLANK) - INTEGRAL UNLESS NOTED OTHERWISE
REM - REMOTE
EM - EMERGENCY BATTERY

CONTROL METHOD
0-10V - 0 TO 10V DIMMING
10%, **1%**, **0.1%**, **0.01%** AS INDICATED
DALI - DIGITAL ADDRESSABLE LIGHTING INTERFACE (IEC 62386)
DMX - USITT DMX512-A (ANSI E1.11)
UPC - UNIVERSAL PHASE CONTROL DIMMING (PHASE ADAPTIVE)
SWC - SWITCHED CONTROL
O - OTHER (SEE DESCRIPTION)

COORDINATE LUMINAIRE DRIVER DIMMING METHODS AND PROTOCOLS WITH THE LIGHTING CONTROL SYSTEM AND CONTROL MANUFACTURER REQUIREMENTS TO ENSURE DIMMING COMPATIBILITY.

MANUFACTURER - SERIES:

1. **THE FIRST MANUFACTURER AND MODEL LISTED IS THE BASIS OF DESIGN.**
2. **THE MODEL NUMBER SHOWN SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE MODEL NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.**

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	OPTICS	MTG	DIMENSIONS	LIGHT SOURCE	DELIVERED LUMENS	WATTS	POWER SUPPLY	MANUFACTURER - SERIES	NOTES
EX1	SINGLE FACE EXIT SIGN, HIGH IMPACT POLYCARBONATE CONSTRUCTION. WET LOCATION LISTED. COORDINATE COLORS WITH ARCHITECT. VERIFY END, BACK, OR CEILING MOUNTING AND ARROWS WITH PLANS.		WL/CL	12 1/2"L X 2 1/2"W X 8 1/8"H	LED	0 lm	3 / FIX	277	LITHONIA WLTE	
EX2	DOUBLE FACE EXIT SIGN, HIGH IMPACT POLYCARBONATE CONSTRUCTION. WET LOCATION LISTED. COORDINATE COLORS WITH ARCHITECT. VERIFY END, BACK, OR CEILING MOUNTING AND ARROWS WITH PLANS.		WL/CL	12 1/2"L X 2 1/2"W X 8 1/8"H	LED	0 lm	3 / FIX	277	LITHONIA WLTE	
F1	LINEAR LED STRIP, FLAT DIFFUSE LENS. GENERAL DISTRIBUTION. COORDINATE FINISH WITH ARCHITECT. PROVIDE ALL NECESSARY MOUNTING HARDWARE.	DROP LENS	SP	48"L X 2 1/4"W X 3"H	LED	5,000 lm	48 / FIX	277 0-10V	LITHONIA ZL1D	
F2	SURFACE MOUNT NARROW SERIES LUMINAIRE. MARINE GRADE, EXTRUDED ALUMINUM HOUSING WITH CAST ALUMINUM ENDCAPS, 0.090" LINEAR RIBBER CLEAR LENS, WHITE POLYESTER COAT FINISH. INTEGRAL OCCUPANCY SENSOR.		SU	49 1/2"L X 6 1/2"W X 3 7/8"H	LED	7,200 lm	75 / FIX	277 0-10V	NEWSTAR VICTORY VIC4N	
F2A	SIMILAR TO F2, DIFFERENT MOUNTING.		WL	49 1/2"L X 6 1/2"W X 3 7/8"H	LED	7,200 lm	75 / FIX	277 0-10V	SIMILAR TO F2	
F3	SURFACE MOUNTED DIRECT LINEAR LUMINAIRE, EXTRUDED ALUMINUM HOUSING, CAST ALUMINUM END CAPS, EXTRUDED ACRYLIC LENS. COORDINATE COLOR AND FINISH WITH ARCHITECT.	BATWING	SU	120"L X 4 1/8"W X 5"H	LED	500 lm	5 / FT	277 0-10V	AXIS EXTEND 2 SURFACE EX2S	
F4	CIRCULAR HIGHBAY, COATED COPPER FREE ALUMINUM ALLOY HOUSING, GRAY NYLON CORROSION RESISTANT POWDER COATING. BUILT-IN HIGH MOUNT OCCUPANCY SENSOR. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED. COORDINATE WITH ARCHITECT FOR COLOR, FINISH, AND MOUNTING HEIGHTS.	TEMPERED GLASS LENS, 60 DEG OPTIC	SP	42 5/8"H, 14 1/8"Ø	LED	8,400 lm	60 / FIX	277	SOLAS RAY HJCR	
F5	RECESSED LINEAR. PROVIDE WITH INTEGRAL OCCUPANCY SENSOR. IK10 IMPACT RESISTANT RATING. IP66 LISTED. CONTINUOUS RUNS PER FLOOR PLAN.	FLUSH	RE	<varies>L X 4 1/4"W X 4 7/8"H	LED	1,000 lm	10 / FT	277 0-10V	AXIS EXTEND 2	
F6	LINEAR FLEXIBLE LED STRIP. WET LOCATION LISTED.		RE	<varies>L X 7/8"W X 7/8"H	LED	437 lm	5 / FT	277 0-10V	LUMINI KURBA MAX	
F7	PENDANT MOUNTED EXTERIOR LINEAR LED, WET LOCATION LISTED, DIRECT FLUSH LENS, CONTINUOUS RUN LENGTH AS SHOWN ON PLANS. COORDINATE FINISH WITH ARCHITECT. FIXTURE MOUNTED BETWEEN CANOPY PANELS, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING DETAILS.		RE	<varies>L X 2 1/2"W X 2 7/8"H	LED	300 lm	4 / FT	277 0-10V	AXIS EXTEND 2 PENDANT EX2PD	
F8	STANDARD 6" RECESSED DOWNLIGHT. WIDE OPTICS, WET SHOWER LENS.		RE	9 1/2"H, 6"Ø	LED	1,500 lm	15 / FIX	277	GOTHAM EVO6	
F9	EXTERIOR WALL MOUNTED LOW PROFILE BUILDING LUMINAIRE. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT. COORDINATE COLOR AND FINISH WITH ARCHITECT.	VISUAL COMFORT FORWARD THROW	WL	9"L X 5 1/2"W X 10 1/2"H	LED	2,000 lm	15 / FIX	277	LITHONIA WDGE 1	
P1	SQUARE LED AREA/FLOOD LUMINAIRE. FORWARD THROW MEDIUM DISTRIBUTION WITH BACKLIGHT SHIELD, SINGLE HEAD LUMINAIRE MOUNTED ON ROUND, TAPERED, ALUMINUM POLE AT 30' AFG (INCLUDING POLE AND FOUNDATION HEIGHT). INSTALL ON EXTENDED BASE FOUNDATION UNLESS NOTED OTHERWISE. PROVIDE WITH WIRELESS DIMMING.	FORWARD THROW MEDIUM	PL	22"L X 15"W X 5 1/2"H	LED	57,549 lm	462 / FIX	277	LITHONIA DSX2	
P2	SIMILAR TO P1, WITH TWO HEAD.		PL	22"L X 15"W X 5 1/2"H	LED	57,549 lm	924 / FIX	277	SIMILAR TO P1	
P3	SIMILAR TO P1, WITH THREE HEAD.		PL	22"L X 15"W X 5 1/2"H	LED	57,549 lm	1,386 / FIX	277	SIMILAR TO P1	
P4	SIMILAR TO P1, DIFFERENT OUTPUT AND OPTICS. PROVIDE TYPE II DISTRIBUTION. WITH BACKLIGHT SHIELDING. 20' AFG (INCLUDING POLE AND FOUNDATION HEIGHT). PROVIDE DIFFERENT MANUFACTURER SERIES TYPE. REFER TO FLOOR PLAN FOR NUMBER OF HEADS ON SAME POLE. PROVIDE FIXTURE WITH INTEGRAL HIGH/LOW OCCUPANCY SENSOR AND WIRELESS DIMMING.		PL	22"L X 15"W X 5 1/2"H	LED	9,651 lm	68 / FIX	277	LITHONIA DSX1	

LIGHTING SEQUENCE OF OPERATION

PLAN ID	LIGHTING SWITCHED
{LS1}	Sequence: Switched Lights are manually controlled in this space. ON: Lights turn on manually using a wall switch. OFF: Lights turn off manually using a wall switch. EMERGENCY: Night lights 'NL' are always ON and fed from emergency lighting inverter.
{LS2}	Sequence: Switched Lights are vacancy controlled in this space. ON: The lights turn on by vacancy sensor wall switch. OFF: After the space has been vacant for 15 minutes, the lights automatically turn off via vacancy sensor or by wall sensor switch. EMERGENCY: Night lights 'NL' are always ON and fed from emergency lighting inverter.
{LS3}	Sequence: Switched Lights are occupancy controlled in this space. ON: The lights turn on manually by wall switch or automatically by wall switch sensor. OFF: Lights turn off using wall switch or automatically after the space has been vacant for 15 minutes via wall switch sensor. EMERGENCY: 'SE' luminaires are fed from emergency lighting inverter circuit.
{LS4}	Sequence: Switched lights are occupancy controlled in this space. ON: The lights turn on automatically by integral fixture sensor. OFF: Lights turn off automatically by integral fixture sensor after the space has been vacant for 15 minutes. Key-switch shall provide manual off. EMERGENCY: 'SE' luminaires are fed from emergency lighting inverter circuit.
{LS5}	Sequence: Aquatic Center site lights are controlled by lighting control system relay panel. Lighting control system shall be provided with photocell input, relay panel on/off control, and wireless dimming. ON: The lights turn on automatically by lighting schedule. ADJUST: The light will be provided with wireless dimming nodes for manual adjustment at lighting control system. OFF: The lights turn off automatically by lighting schedule and photocell input.
{LS6}	Sequence: Exterior dimmable pole lighting is time scheduled and occupancy controlled by lighting control system. pole lights are provided with integral wireless occupancy sensors and wireless dimming. Each zone shall be scheduled separately and controlled together, with integral override sensors. Coordinate schedule with Owner prior to programming. ON: Pole lights are automatically turned on based on schedule via lighting control system. After scheduled hours, pole lights shall automatically turn on via lighting control system upon detection from integral fixture occupancy sensor and remain on for 15 minutes. ADJUST: Pole lights are provided with wireless dimming control and shall be programmed to lighting control system for future dimming control. Dimming set level shall be coordinated with Owner prior to programming controls. Integral fixture occupancy sensor shall dim lights to 50% when no activity has been detected for 15 minues. Lights shall raise to 100% when activity is present. OFF: Pole lights are automatically turned off based on schedule via lighting control system.
{LS7}	Sequence: Exterior dimmable building mounted luminaires are time scheduled and controlled by lighting control system. Fixtures are provided with integral dimming. Coordinate schedule with Owner prior to programming. ON: Luminaires are automatically turned on based on schedule via lighting control system. ADJUST: Luminaires are provided with dimming control and shall be programmed to lighting control system for future dimming control. Dimming set level shall be coordinated with Owner prior to programming controls. OFF: Luminaires are automatically turned off based on schedule via lighting control system. EMERGENCY (if applicable): When normal power fails, switched emergency 'SE' luminaires automatically turn on to 100% and bypass the local lighting controls. Emergency luminaires are fed from emergency lighting inverter circuit. Provide a shunt relay to allow for full control during normal operation.

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	**ACCESSORIES & OPTIONS**	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		
AMS-ASSEMBLED MOTOR STARTER		

ITEM	DISCONNECT TYPE & RATING: TYPE	RATING	TRIP RATING	VOLTAGE	POLES	STARTER: NEMA SIZE	TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
MX-1		30		120	1	0	MX	NEMA 1	<varies>	
MX-CP-1		30		120	1	0	MX	NEMA 1		
MX-CP-2		30		120	1	0	MX	NEMA 1		
MX-CP-3		30		120	1	0	MX	NEMA 1		
MX-CU-2		30		120	1	0	MX	NEMA 3R		
MX-H		30		120	1	0	MX	NEMA 4X		
MX-WH-1		30		120	1	0	MX	NEMA 1	RP, 115 VOLT PILOT LIGHT CIRCUIT	
MX-WH-2		30		120	1	0	MX	NEMA 1	RP, 115 VOLT PILOT LIGHT CIRCUIT	
MX-WH-3		30		120	1	0	MX	NEMA 1		
DS-CU	NF	60		208	1			NEMA 1		

TRANSFORMER SCHEDULE

TYPE:		**ACCESSORIES & OPTIONS**
K1 - DOE 2016 DRY TYPE	AUT - AUTOTRANSFORMER	AL - ALUMINUM WINDINGS
K4 - K4 RATED DRY TYPE	BB - BUCK BOOST	CU - COPPER WINDINGS
K13 - K13 RATED DRY TYPE	LIQ - LIQUID FILLED	RS - EPOXY RESIN ENCAPSULATED
HM - HARMONIC MITIGATING		NV - NON-VENTILATED
PE - NEMA PREMIUM EFFICIENCY		NL - 200% RATED NEUTRAL
		EL - ELECTROSTATIC SHIELD
		TTM - TRANSFORMER TEMP MONITOR (REFER TO SPECIFCATION 26 09 13)

ITEM	KVA RATING	TYPE	ENCLOSURE	MAX. TEMP. RISE C.	PRIMARY: VOLTS	PRIMARY: PH	SECONDARY: VOLTS	SECONDARY: PH	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
TR-75	75 kVA	K-1	NEMA 1	150	480	3	120/208	3	AL	

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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

IMEG
263 SHUMAN BOULEVARD
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0 1 2 3
REF. SCALE IN INCHES PROJECT #25005326.00

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SCHEDULES

E-400

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~~Jan 30, 2026~~ Feb 26, 2026

RE: Wheeling Aquatic Center, 25070
Narrative Description

Project Address: 105 Community Boulevard, Wheeling, Illinois

Prepared By: Confluence, Inc.
ATTN: Terry Berkbuegler, PLA
Principal + Landscape Architect
325 W Huron Street, Suite 602
Chicago, Illinois 60654

Owner and Developer Information
Owner and or Developer: Wheeling Park District
ATTN: Jan Buchs
Executive Director
100 Community Blvd
Wheeling, IL 60090

Summary of Proposed Development and Intent
The new Wheeling Aquatic Center project consists of the comprehensive redevelopment of the existing outdoor aquatic facilities at Heritage Park, located at 105 Community Boulevard in Wheeling, Illinois. The proposed development is intended to create a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency, and integrates cohesively with surrounding park amenities and landscape features.

The overall design prioritizes clear site organization, intuitive circulation, and safe operations. A centrally located bathhouse and concessions building serves as the primary public entry point into the aquatic complex, establishing a clear arrival sequence from existing parking areas and park circulation routes. Controlled access points and logical internal circulation support efficient staffing, clear wayfinding, and patron safety.

The anticipated general public operating hours for the Wheeling Aquatic Center are 10:00 a.m. to 7:00 p.m., 7 days per week during the summer season. Limited morning programming may occur prior to public opening, including swim lessons and small group activities. Occasional special events may also be scheduled in the evening after public closing hours. These extended use periods will be limited in frequency and managed by Park District staff to ensure compatibility with surrounding park uses.

Description of Proposed Buildings
The design of the main bathhouse and mechanical buildings for the Wheeling Aquatics Center is based on providing durable, functional structures that meet the diverse operational needs of the facility while creating an engaging and enjoyable aesthetic experience for users.

The main bathhouse building is conceived as two interconnected structures separated by a central entry space, defined by an illuminated perforated metal entry pylon and an elevated cantilevered roof. The north portion of the building contains unconditioned changing areas, toilet rooms, and showers. These spaces are designed to comply with all applicable Illinois Plumbing Code and Illinois Department of Public Health requirements for aquatic facilities. Additional access control points allow limited toilet room use during shoulder seasons when the pools are closed. Individual unisex and family changing/toilet rooms are also provided in this portion of the building.

The south portion of the bathhouse contains conditioned spaces, including concessions, an IT room, guard support areas, first aid, and mechanical functions. The concession area is designed to serve both aquatics center patrons and general park users, while the toilet rooms provide year-round convenience for park visitors. The guard support area is strategically located to maintain clear views of adjacent aquatic areas for security and operational control. Ample daylighting is provided throughout the building via clerestory glazing located beneath the continuous roof overhang that encircles the structure.

- The total enclosed area of the main bathhouse building is 6,754 square feet.

The architectural character of the building is driven by the goal of expressing its aquatic function through form, color, and texture while maintaining a cost-effective and durable building envelope. Precast concrete was selected as the primary exterior material due to its durability, economy, and aesthetic versatility. A recessed wave formliner creates a crescendo wave pattern across the primary west façade, drawing attention toward the main entry. Circular “bubble” elements composed of blue-colored glass punctuate the elevation, allowing daylight into interior spaces and animating the façade at night. As an alternate, these elements may be constructed as circular recessed panels with embedded crushed blue glass. Subtle variations in color and texture distinguish the smooth formliner areas from the surrounding acid-etched panels. The east and west curved wall elements are connected by flat, acid-etched panels, with the east curved walls utilizing the wave formliner to frame glazed openings and exterior kit lockers.

The mechanical building located to the north incorporates many of the same design attributes as the main bathhouse. A central breezeway divides the structure and serves as a controlled access point for day campers, maintenance personnel, and emergency vehicles. Smaller secondary toilet rooms, lockers, showers, and a concessions area are included to help distribute use and reduce congestion at the main bathhouse. The majority of the eastern portion of the building houses mechanical systems serving all pools. Architecturally, the building is enclosed with precast concrete panels that mirror the bathhouse design, including the wave formliner and blue “bubble” elements.

- The total enclosed area of the mechanical building is 5,400 square feet.

Site Features and Uses

The aquatic program includes a diverse range of water features designed to serve a wide range of ages, abilities, and recreational preferences. These include a recreation pool with varied depths for swimming and general use, a resort style leisure pool with shallow lounging areas, and a zero depth entry play structure that supports inclusive access for younger users and individuals with mobility limitations. A separate splash pad provides interactive water play without the need for swimming. Active recreation elements include a slide complex with multiple body slides, drop slides, and a vertical drop slide, strategically located to maintain separation from leisure areas while providing

visual interest and excitement. A diving board area is incorporated into the recreation pool to support traditional aquatic programming.

Supporting site amenities include shaded seating areas with umbrellas and shade structures, cabanas, party shelters, landscaped lawn terraces, outdoor storage, screened service areas, and an overlook terrace with an integrated water feature. Pedestrian circulation, grading, stormwater management, and landscape improvements are coordinated throughout the site to enhance accessibility, manage drainage, and reinforce connections to the broader Heritage Park system.

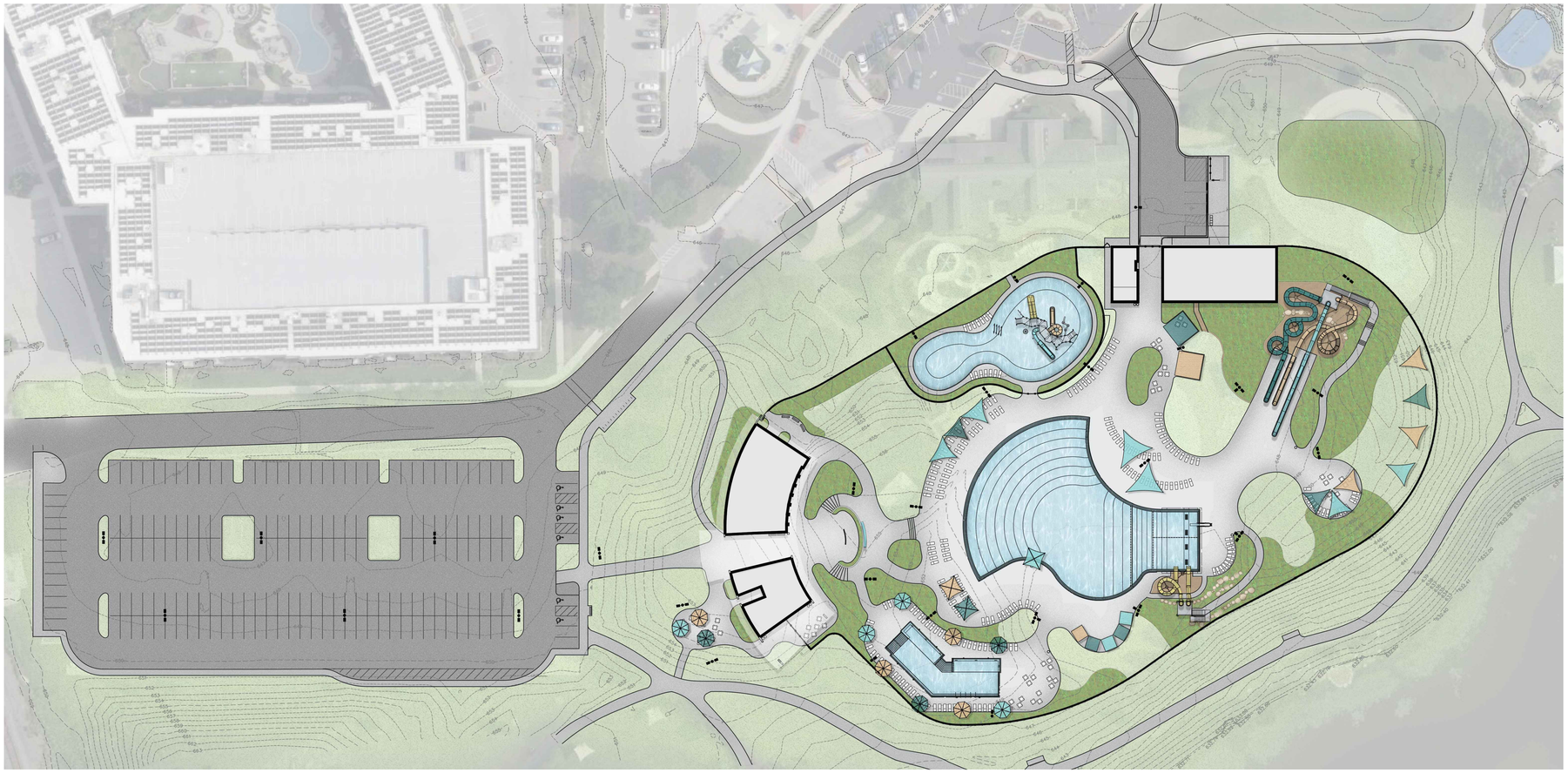
Site and Area Calculations

- Total contiguous ownership interest: 103.8 acres
- Total Development Area: 7.34 acres
- Total Building(s) Floor Area: 12,154 square feet
- Total Number of Parking Spaces
    - West parking lot: 193 pool spaces proposed vs. 188 pool spaces required per Ordinance No. 2017-5118
    - Overall Park District property: 673 required, 713 provided
- Total Number of Bike Spaces
    - 24 spaces (12 racks, 2 spaces per rack)
- Total Impervious Surface Area: 2.43 (proposed); 2.35 (Existing)
- Total Non-Impervious Green Space: 4.31 (proposed); 4.53 (existing) square feet
- Open Pool water: 0.60 acres (proposed); 0.46 acres (existing)
- Total maintenance area*: 1.46 acres
    - *note: maintenance area is for west parking lot asphalt repavement

WHEELING PARK DISTRICT AQUATICS CENTER

WHEELING PARK DISTRICT

105 COMMUNITY BLVD
Wheeling, IL



NOTE: THE ABOVE SITE RENDERING IS PROVIDED FOR DESIGN INTENT ONLY. FINAL LAYOUT AND DESIGN MAY VARY FROM RENDERING.

DESIGN DISCLAIMER

THESE PLANS ARE INTENDED SOLELY FOR THE WHEELING PARK DISTRICT AQUATICS CENTER AT HERITAGE PARK LOCATED AT 105 COMMUNITY BLVD, WHEELING IL 60090. THEY MAY NOT BE REPRODUCED, DISTRIBUTED, UPLOADED TO ARTIFICIAL INTELLIGENCE PLATFORMS, OR ALTERED IN ANY FORM WITHOUT THE EXPRESS WRITTEN CONSENT OF THE PROJECT TEAM LISTED ON THIS COVER SHEET. UNAUTHORIZED USE, INCLUDING USE OF ARTIFICIAL INTELLIGENCE TO ANALYZE, INTERPRET, MODIFY, OR GENERATE DERIVATIVE WORKS, IS STRICTLY PROHIBITED.

BID PACKAGE COORDINATION

THIS PROJECT IS BEING ISSUED AND BID IN MULTIPLE BID PACKAGES. THE CONTRACT DOCUMENTS ASSOCIATED WITH THIS PACKAGE REPRESENT A PORTION OF THE OVERALL PROJECT SCOPE. ALL BID PACKAGES COLLECTIVELY CONSTITUTE A SINGLE, COHESIVE PROJECT.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW, COORDINATE, AND VERIFY ALL APPLICABLE CONTRACT DOCUMENTS ACROSS ALL BID PACKAGES, INCLUDING DRAWINGS, SPECIFICATIONS, ADDENDA, AND RELATED DOCUMENTS. THE CONTRACTOR SHALL ENSURE THAT THE WORK INCLUDED IN THIS PACKAGE IS COORDINATED WITH WORK SHOWN OR SPECIFIED IN PREVIOUSLY ISSUED BID PACKAGES FOR THIS PROJECT.

FAILURE TO REVIEW AND COORDINATE THE FULL SET OF CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING A COMPLETE, COORDINATED, AND FUNCTIONAL PROJECT.

AQUATIC STRUCTURAL ENGINEER
GRAEF
116 S ADAMS STREET, SUITE 201
GREEN BAY, WI 54301
PH: (920) 592-9402
BEAU SANDERS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED STRUCTURAL ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JULY 8, 2009
SHEETS COVERED BY SEAL: "PL"

AQUATIC DESIGN
WATER TECHNOLOGY INC (WTI)
100 PARK AVENUE
BEAVER DAM, WI 53916
PH: (920) 887-7371
BRIAN FREBER

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: MARCH 4, 2010
SHEETS COVERED BY SEAL: "PL"

ELECTRICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
PAUL SILIUNAS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE:
SHEETS COVERED BY SEAL: "E"

PLUMBING & MECHANICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
RYAN SPAULDING

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SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JAN 4, 2011
SHEETS COVERED BY SEAL: "P" AND "M"

STRUCTURAL ENGINEER
McCLUSKEY ENGINEERING
1887 HIGH GROVE LN
NAPERVILLE, IL 60540
PH: (630) 717-5395
ANDREW ECK

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED STRUCTURAL ENGINEER UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JUN 21, 2004
SHEETS COVERED BY SEAL: "S"

ARCHITECT
LEGAT ARCHITECTS, INC.
49 W RANDOLPH ST
CHICAGO, IL 60601
PH: (312) 258-9595
TED HAUG

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE STATE OF ILLINOIS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: DEC 20, 1985
SHEETS COVERED BY SEAL: "A"

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC
625 FOREST EDGE DRIVE
VERNON HILLS, IL 60061
PH: (847) 478-9700
DON MATTHEWS

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF ILLINOIS

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: FEB 9, 1993
SHEETS COVERED BY SEAL: "C"

LANDSCAPE ARCHITECT
CONFLUENCE
325 W HURON STREET, SUITE 602
CHICAGO, ILLINOIS 60654
PH: (312) 663-5494
TERRY BERKBUEGLER

I HEREBY CERTIFY THAT THE PORTION OF THIS DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT AND PRIME DESIGN CONSULTANT. I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF ILLINOIS. ALL CONSULTANT WORK NOT PREPARED BY ME WAS PREPARED BY PERSONS SUPERVISED BY ME AND RESPONSIBLE TO ME, OR WAS REVIEWED BY ME AND FOUND TO BE ACCEPTABLE TO ME. I HAVE COORDINATED THE WORK OF AND REVIEWED THE REPORTS, OPINIONS, AND DECISIONS OF CONSULTANTS IDENTIFIED UNDER THE RESPONSIBLE CHARGE OF EACH PROFESSION INVOLVED IN THE PREPARATION OF THESE DOCUMENTS.

SIGNATURE
DATE
REGISTRATION ISSUANCE DATE: JULY 2, 2024
SHEETS COVERED BY SEAL: "L"

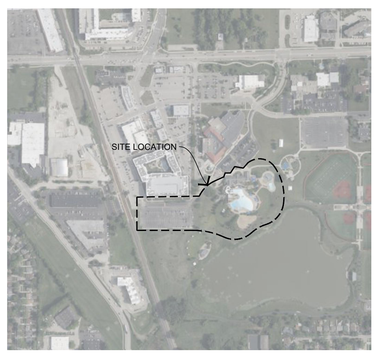
NOT FOR CONSTRUCTION - REVIEW ONLY

CONFLUENCE

SHEET INDEX

SHEET NO.	SHEET TITLE
G100	COVER SHEET
	LANDSCAPE SHEETS
L100	GENERAL NOTES
L110	POOL DECK EGRESS PLAN
L200	TREE MITIGATION PLAN
L201	TREE MITIGATION PLAN
L202	TREE MITIGATION PLAN
L300	HARDSCAPE PLAN
L301	HARDSCAPE PLAN
L302	HARDSCAPE PLAN
L500	PLANTING PLAN
L501	PLANTING PLAN
L502	PLANTING PLAN
L503	PLANTING PLAN
L510	IRRIGATION PLAN
L511	IRRIGATION PLAN
L512	IRRIGATION PLAN
L700	SITE DETAILS
L701	SITE DETAILS
L800	PLANTING DETAILS

VICINITY MAP



ISSUED FOR MAJOR SITE PLAN RESUBMITTAL #1

MAR 5, 2026

811 Know what's below. Call before you dig.

COVER SHEET

CONFLUENCE PROJECT # 25070

G000

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File Location: T:\Projects\25070\25070_wheeling family aquatics (village of wheeling, p153 working)\10 autocad\200 sheet set manager\SHEETS\G000 Cover Sheet (Darwin by: XX | Checked by: XX

IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, IF THIS SHEET IS NOT FULL SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF THIS SHEET IS COLOR

GENERAL NOTES

A. THE CONTRACTOR SHALL NOTIFY THE 811 ONE CALL CENTER TO REQUEST THE LOCATION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES NOT COVERED BY 811 ONE CALL. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

B. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONDITIONS, IMPROVEMENTS, VEGETATION AND UTILITIES TO REMAIN. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.

C. THE CONTRACTOR SHALL CONSTRUCT ALL ITEMS WITHIN THIS CONTRACT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, REGULATIONS AND ENGINEERING STANDARDS. CONTRACTOR TO COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY OR STREETS WITH THE APPROPRIATE JURISDICTIONS.

D. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

DEMOLITION GENERAL NOTES

A. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANIES REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DAMAGE TO EXISTING UTILITIES PRIOR TO REPAIR. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER OF THE UTILITY.

B. FIELD VERIFY EXISTING GRADES AND LOCATIONS OF EXISTING UTILITIES, CONDUIT, LINES, POLES, TREES, PAVING, BUILDING AND OTHER SITE STRUCTURES PRIOR TO DEMOLITION OR CONSTRUCTION AND IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. THE CONTRACTOR SHALL REPORT TO THE OWNER ANY DAMAGE TO OWNER'S PROPERTY PRIOR TO REPAIR.

C. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

D. CONTACT THE LANDSCAPE ARCHITECT PRIOR TO REMOVING ANY PLANT MATERIAL NOT INDICATED TO BE PROTECTED OR REMOVED.

E. CONTRACTOR TO PROVIDE ADEQUATE BARRICADES AND TRAFFIC CONTROL. COMPLY WITH REQUIREMENTS OF LOCAL JURISDICTION.

F. CONTRACTOR SHALL SAW CUT ALL ASPHALT OR CONCRETE TO BE REMOVED TO THE NEAREST CONTROL JOINT WHERE PRACTICAL.

G. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

UTILITY GENERAL NOTES

A. DEWATERING (IF REQUIRED) IS CONSIDERED AN INCIDENTAL EXPENSE. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEWATERING.

B. COORDINATE INSPECTIONS FOR CONNECTIONS TO PUBLIC WATER, SANITARY, AND STORM SEWER WITH THE APPROPRIATE JURISDICTIONS.

C. INSTALL TEMPORARY INLET PROTECTION AROUND ALL PERMANENT STORM SEWER INLETS IN COMPLIANCE WITH LOCAL SWPPP REQUIREMENTS.

D. CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISH GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES AND LIGHT BASES.

E. FOR PATCHING USE PAVEMENT MIX PER VILLAGE OF WHEELING STANDARD SPECIFICATIONS.

ABBREVIATIONS

(ALL MIGHT NOT BE USED)

A	
ABRV	ABBREVIATION
ALN	ALIGN
ALW	ALLOWANCE
APPROX	APPROXIMATE
ARCH	ARCHITECT
AVE	AVERAGE
B	
B&B	BALLED AND BURLAPPED
BC	BOTTOM OF CURB
BLDG	BUILDING
BOC	BACK OF CURB
BOF	BOTTOM OF FOOTING
BW	BOTTOM OF WALL (@ FS)
BWS	BOTH WAYS
C	
CAL	CALIPER
CF	CUBIC FEET
CIP	CAST IN PLACE
CL	CENTER LINE
CLR	CLEAR
CO	CLEANOUT
CONT	CONTINUOUS
CY	CUBIC YARD
D	
DBH	DIA AT BREAST HT
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
DWG	DRAWING
E	
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ENG	ENGINEER
EQ	EQUAL
EST	ESTIMATE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
F	
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEV
FG	FINISHED GRADE
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISHED SURFACE
FT	FEET
FTG	FOOTING
G	
GA	GAUGE
GEN	GENERAL
H	
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDED
J	
JT	JOINT
K	
NONE	
L	
LF	LINEAR FEET
LP	LOW POINT
M	
MAX	MAXIMUM
MANU	MANUFACTURER
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
N	
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	
PC	POINT OF CURVE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PT	POINT
PVC	POLY VINYL CHLORIDE
Q	
QTY	QUANTITY
R	
R	RADIUS
REC	RECOMMENDATION
RE	REFERENCE
REINF	REINFORCE
R-EJ	REINFORCED EXPANSION JT
REQD	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
S	
S	SOUTH
SAN	SANITARY
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
ST	STORM SEWER
SY	SQUARE YARD
STA	STATION
STD	STANDARD
SYM	SYMMETRICAL
SQ	SQUARE
T	
T&B	TOP AND BOTTOM
TBD	TO BE DETERMINED
TC	TOP OF CURB
TD	TOP OF DRAIN
TH	THICK
TOF	TOP OF FOOTING
TOPO	TOPOGRAPHY
TW	TOP OF WALL
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VAR	VARIES
VOL	VOLUME
W	
W	WITH
W/O	WITHOUT
WT	WEIGHT
WWM	WELDED WIRE MESH
X	
NONE	
Y	
YD	YARD
Z	
NONE	

LINE SYMBOL LEGEND

- LIMIT OF WORK
- EASEMENT
- SETBACK
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- COMMUNICATIONS
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- SANITARY SEWER
- STORM SEWER
- UNDERDRAIN
- TELEPHONE
- WATER
- SILT FENCE
- FENCE, TYPE 1
- FENCE, TYPE 2
- FENCE, TYPE 3

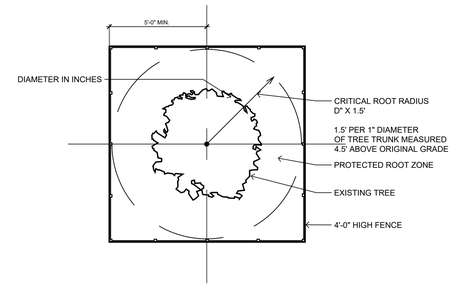
DRAWING SYMBOLS

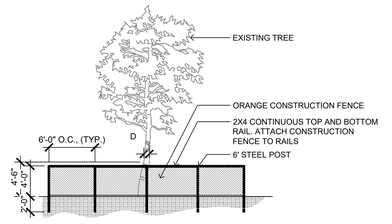
(NOT ALL ARE USED)

- SECTION
- ELEVATION
- TEXT MULTILEADER (MULTILEADER STD.)
- GRADING MULTILEADER (XX ###.#)
- DETAIL MULTILEADER (DETAIL NAME)
- CONTOUR ELEVATION
- CENTER POINTS
- SLOPE (#.#%)
- COORDINATE TAGS (N.#### E.####)
- ELEVATION (XXXX.XX / X'XXXX)
- PLANT TAG
- KEYNOTE
- DIMENSION (#'-##")
- RADIUS DIMENSION (R##)
- ANGLE DIMENSION (##°)
- REVISION TRIANGLE
- XX / L-XX
- XX / L-XX
- A
- ℄
- # SHEET TITLE N.T.S

SCALE: 1"=10'

0' 5' 10' 20'





1 / L100 TREE PROTECTION FENCE TYP NTS

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847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

GENERAL NOTES

L100

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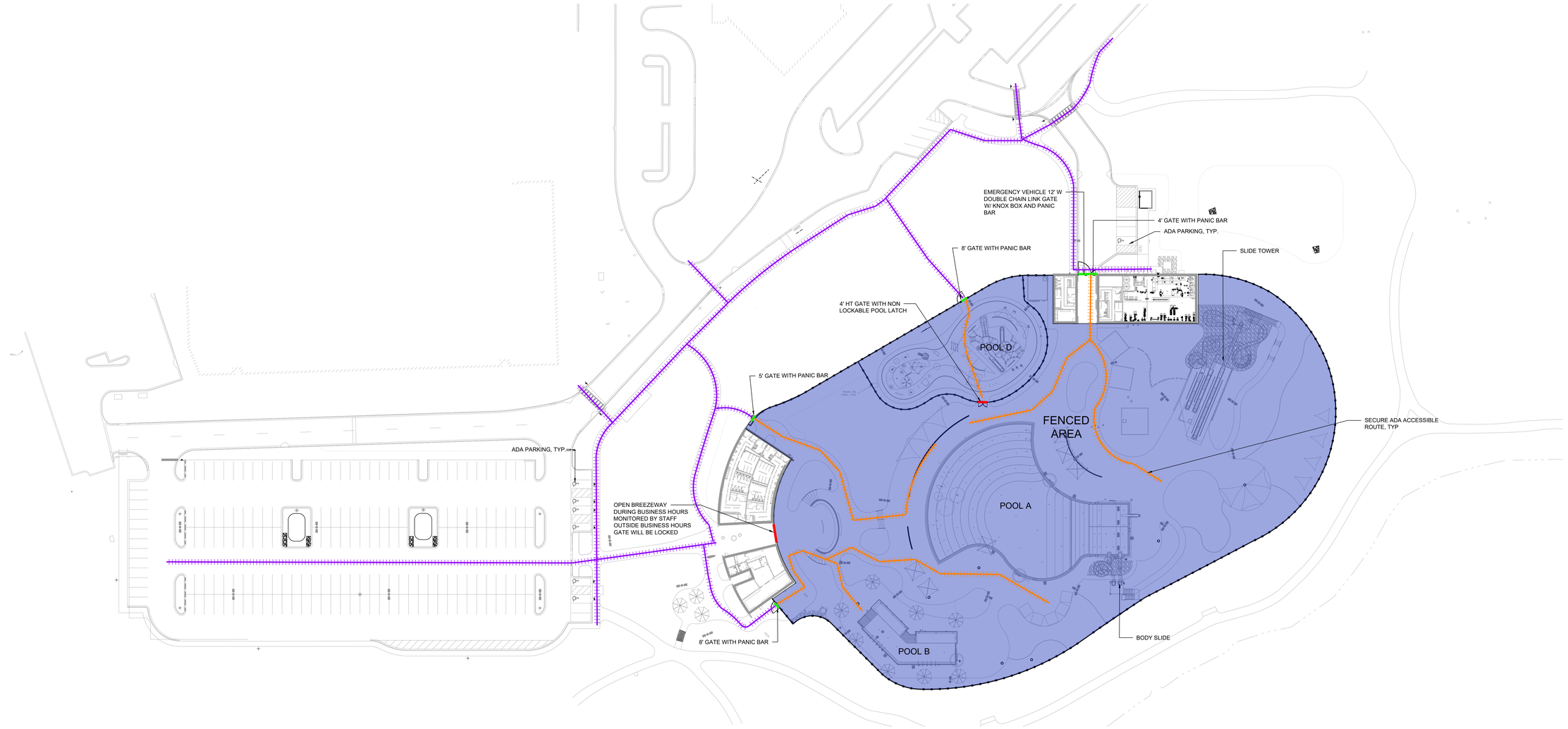
File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p)\03 working\10 autocad\200 sheet set manager\SHEETS\G000 Cover Sheet / SAVE DATE: 3/5/2026 10:23 AM BY: mmiller / PLOT DATE: 3/5/2026 1:31 PM BY: Mark Miller



1 L110 POOL DECK EGRESS PLAN

0' 20' 40' 80'

POOL DECK LEGEND

- LOCK GATE
- PANIC GATE
- ROW PATH
- SECURE PATH

POOL DECK EGRESS CODE

A. THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.

B. KEY REQUIREMENTS FOR OUTDOOR POOL EGRESS

1. OCCUPANCY LOAD
   1.1. TOTAL BATHERS: 2,847.

2. NUMBER OF EXITS (GATES)
   2.1. BASED ON IBC TABLE 1006.3.3:
   2.2. FOR 2,847 BATHERS : MINIMUM 5 EXITS (GATES) REQUIRED.

3. EXIT WIDTH
   3.1. AREA A (2847 BATHERS): 2847 × 0.15 = 428 INCHES

4. TRAVEL DISTANCE TO EXITS
   4.1. MAXIMUM TRAVEL DISTANCE:
      4.1.1. 200 FEET IF UNSPRINKLERED.
      4.1.2. 250 FEET IF SPRINKLERED.

5. GATE FEATURES
   5.1. ALL GATES MUST:
      5.1.1. SWING OUTWARD IN THE DIRECTION OF EGRESS.
      5.1.2. BE EQUIPPED WITH PANIC HARDWARE FOR QUICK EXIT.
      5.1.3. BE ADA-COMPLIANT:
         5.1.3.1. MINIMUM WIDTH: 36 INCHES PER GATE.
         5.1.3.2. OPERABLE PARTS MUST NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING.

B. SUMMARY FOR WHEELING PARKS DISTRICT PROJECT:

1. AREA A (2847 BATHERS):
NUMBER OF GATES: 5 GATES; 1 144 IN. WIDE, 2 96 IN. WIDE, 1 60 IN. WIDE, 1 48 INCHES WIDE.

2. ALL CHAIN LINK GATES WILL BE 6' HT WITH PANIC, SWINGING OUT

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBBMITTAL #1
Date	2026-03-05

POOL DECK EGRESS PLAN

L110

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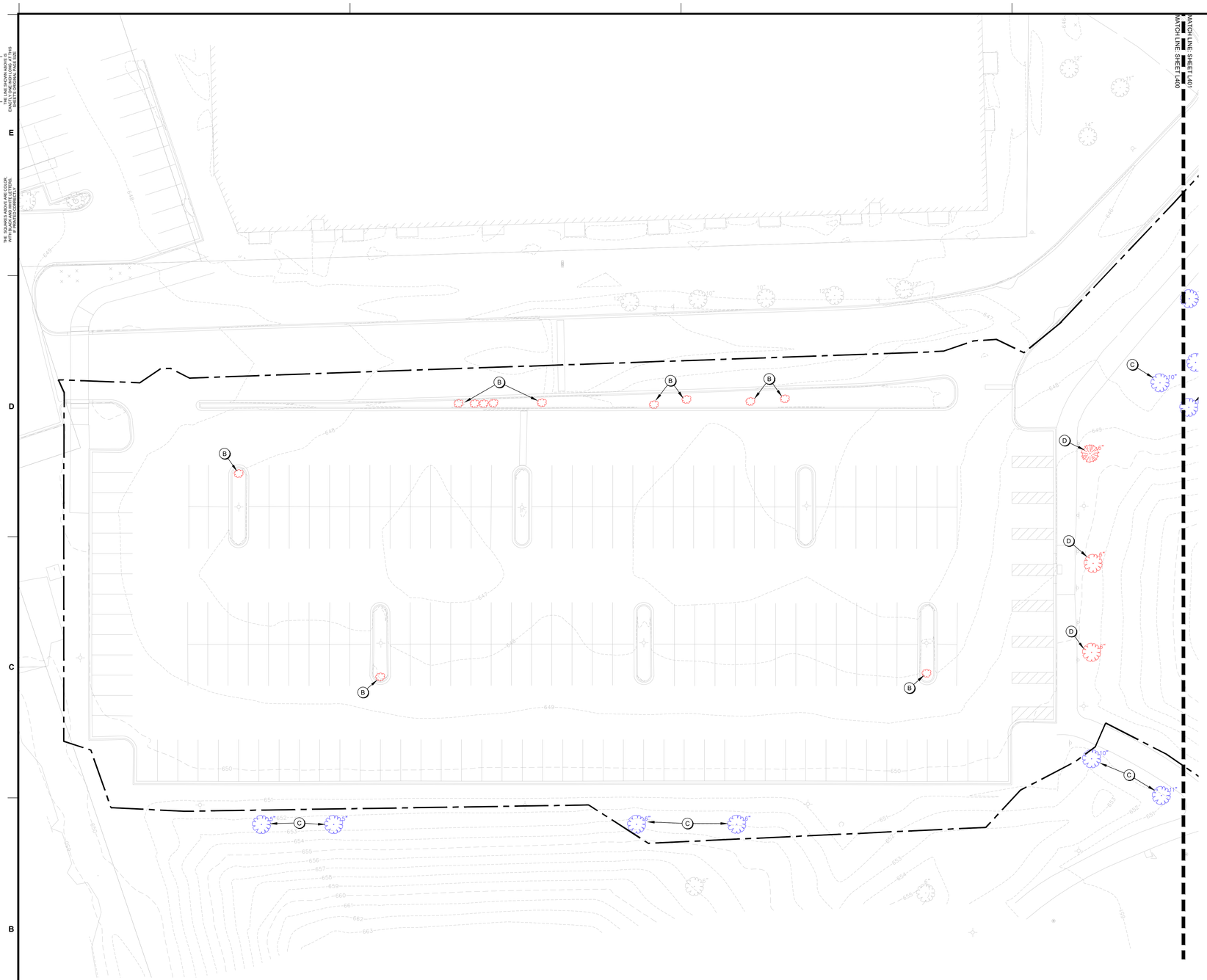

1 L200 TREE MITIGATION PLAN - AREA A

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L200 SHEET LOCATION KEY

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VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBBMITTAL #1
Date	2026-03-05

TREE MITIGATION PLAN

L200

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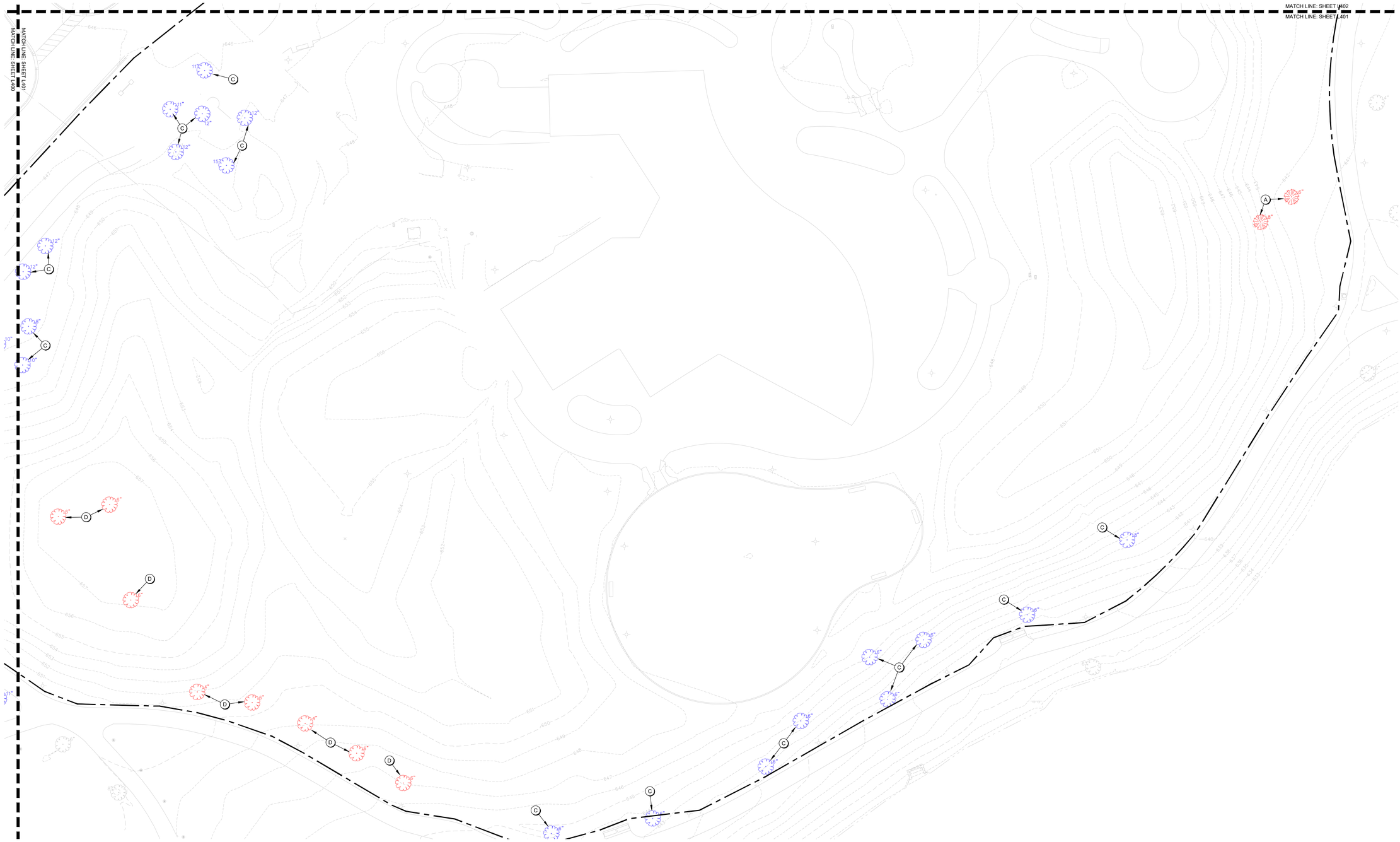

1 L201 TREE MITIGATION PLAN - AREA B

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L201 SHEET LOCATION KEY

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105 COMMUNITY BLVD
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Date	2026-03-05

TREE MITIGATION PLAN

L201

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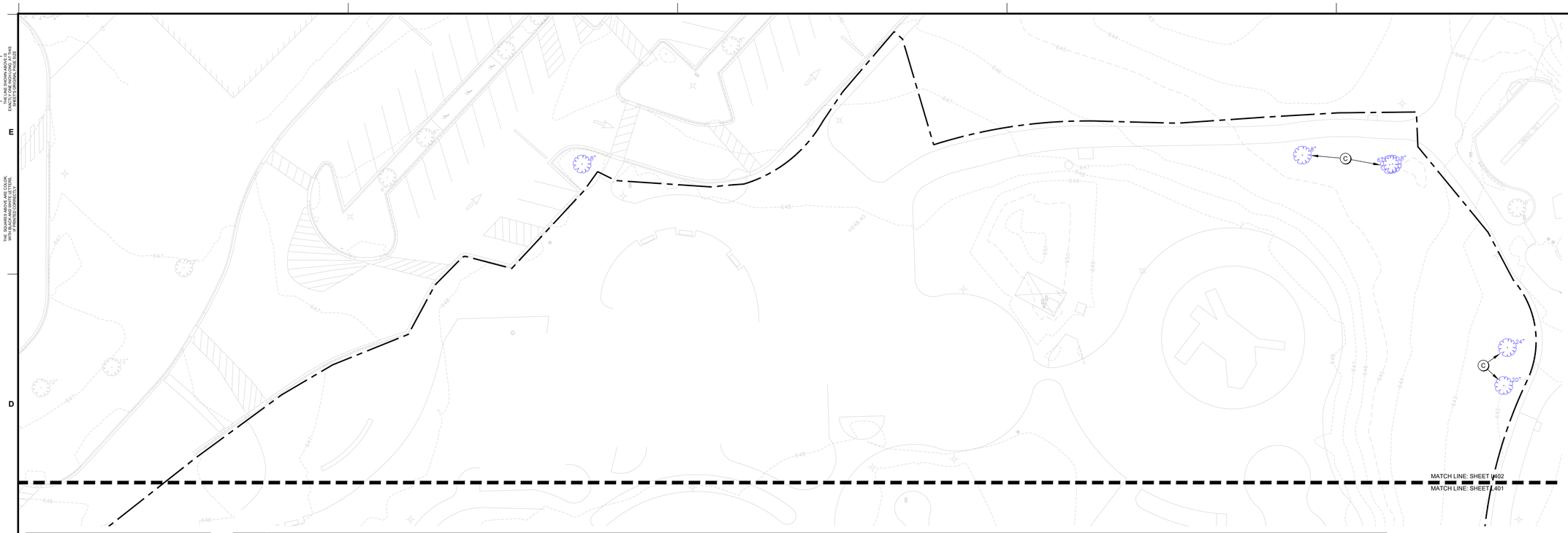

1 L202 TREE MITIGATION PLAN - AREA C

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L202 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBBMITTAL #1
Date	2026-03-05

TREE MITIGATION PLAN

L202

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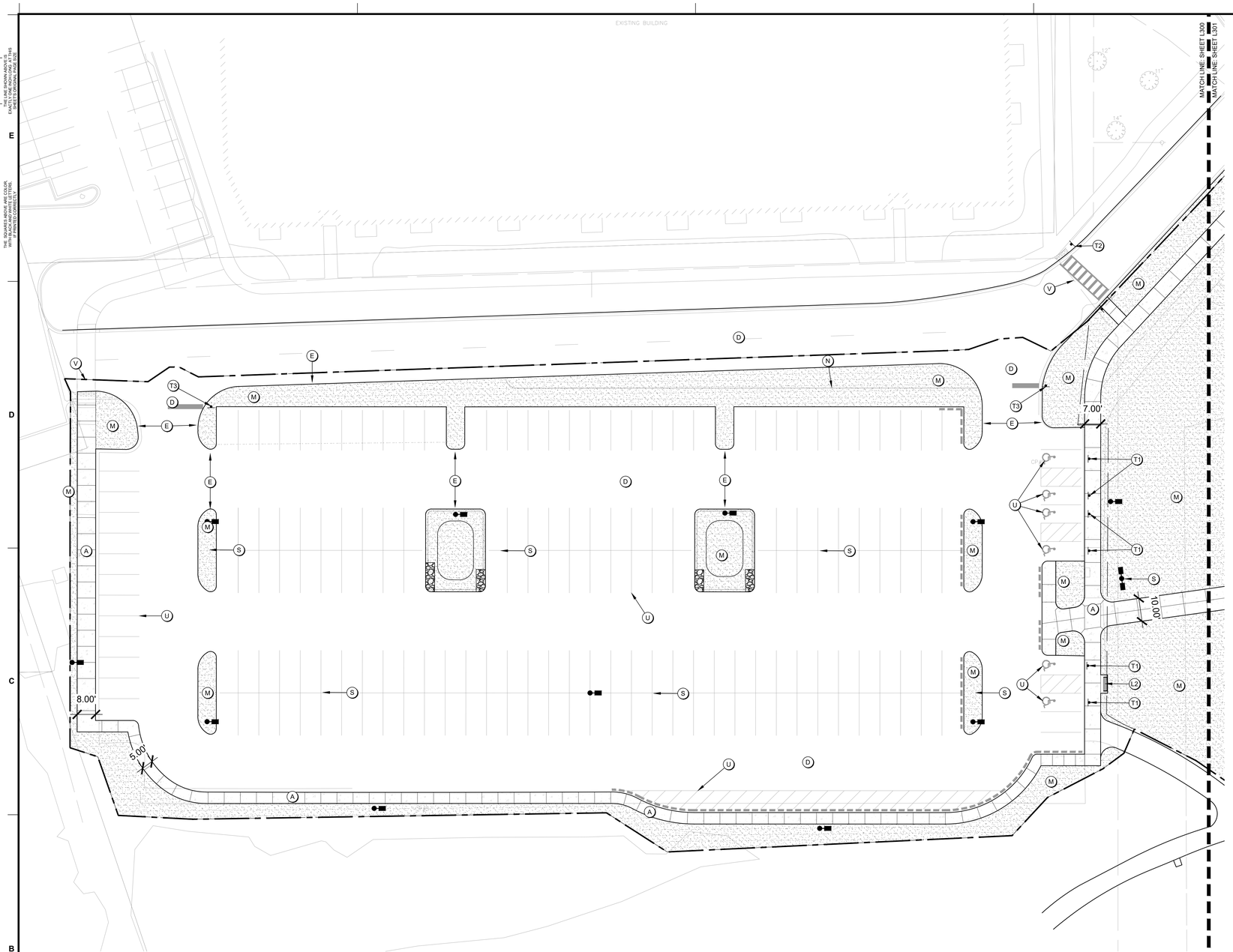

1 L300 HARDSCAPE PLAN - AREA A

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
Z) LANDSCAPE BED EDGE TYPE 2; RE: 14/L701
AA) YARD HYDRANT; RE: 15/L701

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

RAILING, FENCE, AND GATES; SCHEDULE A

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ, SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L300 SHEET LOCATION KEY

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CONFLUENCE
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NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L300

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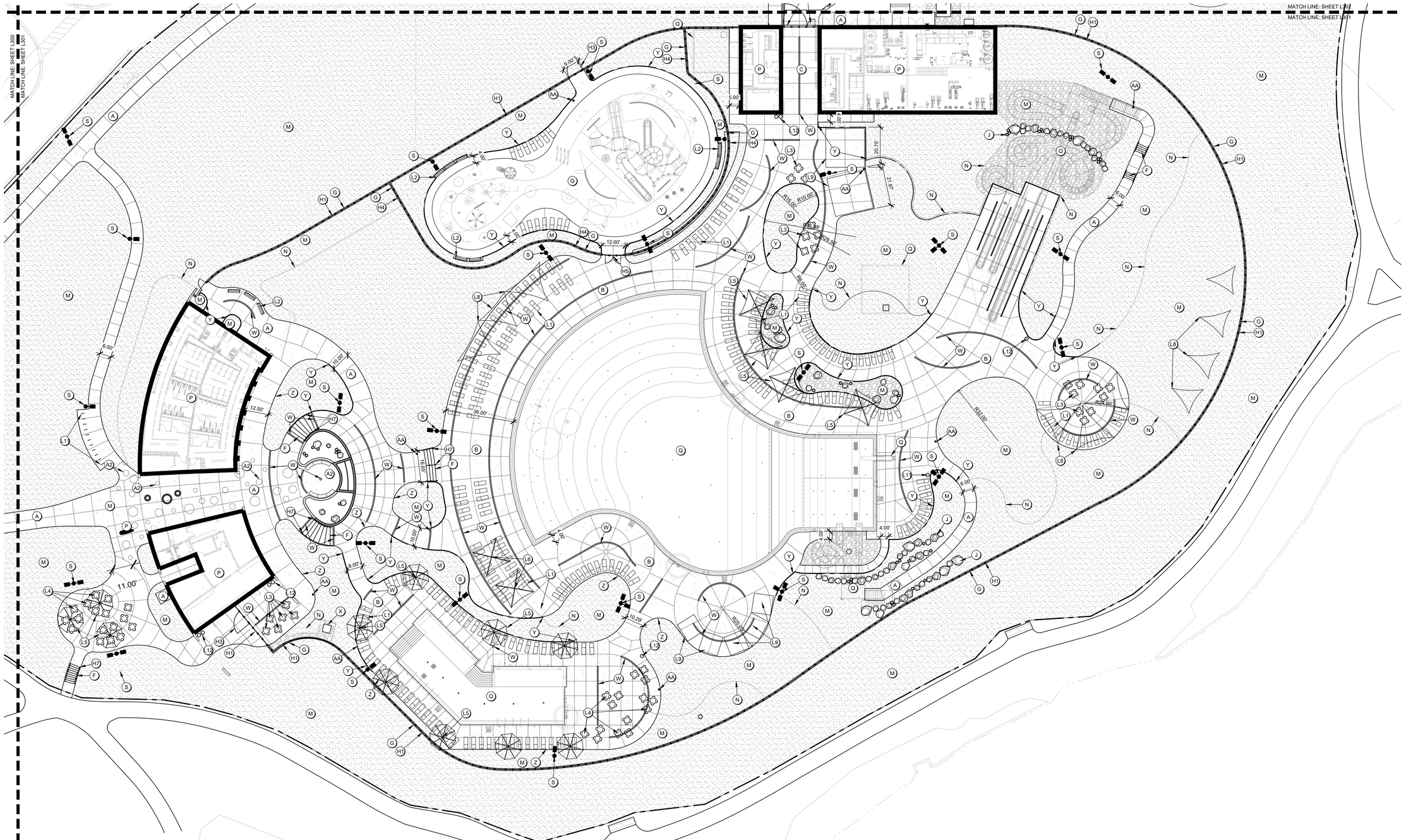
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL PAPER SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, pl)\03 working\10 outcost\200 sheet set manager\SHEETS\L300 Hardscape Plan / SAVE DATE: 3/27/2026 12:48 PM BY: rmiller / PLOT DATE: 3/27/2026 12:53 PM BY: Anaya Marshall



KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
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D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
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M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
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C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

1 L301 HARDSCAPE PLAN - AREA B

0' 10' 20' 40'

RAILING, FENCE, AND GATES; SCHEDULE A

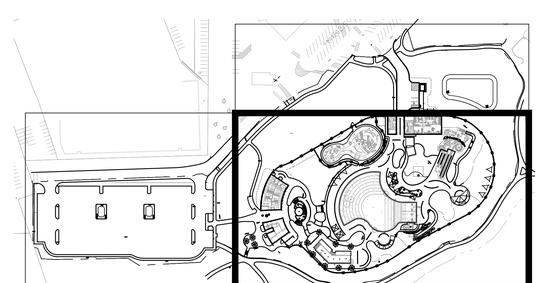
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ. SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



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Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L301

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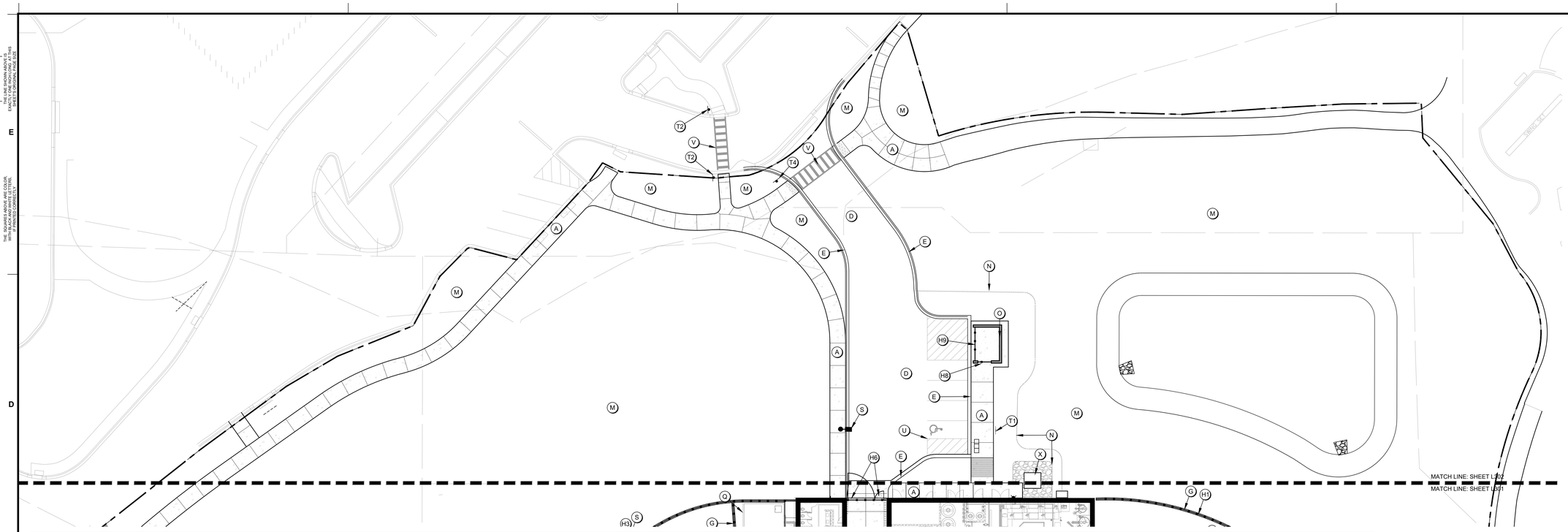
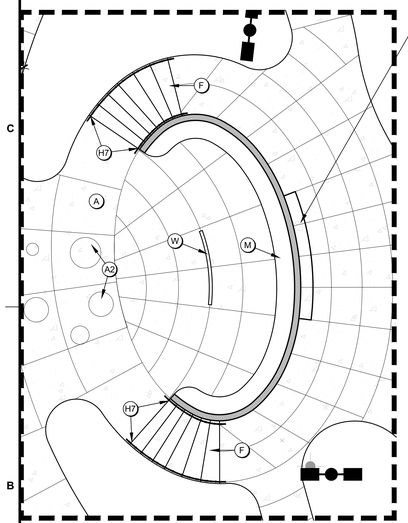


1 L302 HARDSCAPE PLAN - AREA C



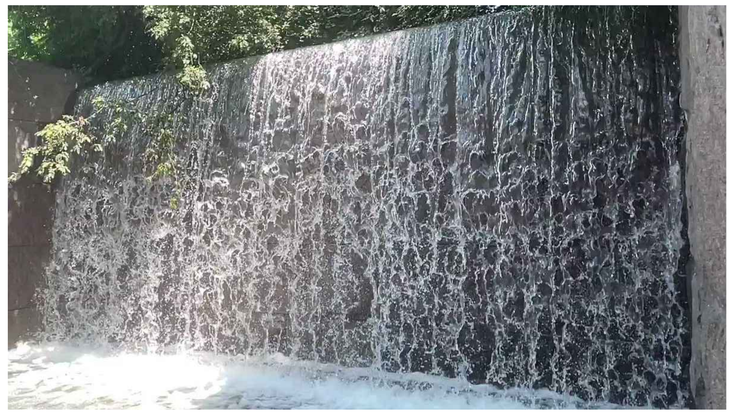
WATER FEATURE/FOUNTAIN. THE APPROXIMATELY 3 FOOT TALL WALL SHALL BE CONSTRUCTED OF REINFORCED CONCRETE OR CMU WITH A FINISHED FACE OF STONE VENEER, OR AS INDICATED IN THE DRAWINGS. A CONCEALED WEIR SYSTEM SHALL BE PROVIDED AT THE TOP OF WALL TO DISTRIBUTE WATER EVENLY ACROSS THE FULL WIDTH AS INDICATED IN THE DRAWINGS, CREATING A UNIFORM, UNINTERRUPTED CURTAIN OF WATER FLOWING DOWN THE VERTICAL SURFACE INTO A RECEIVING BASIN OR POOL BELOW. THE CONTRACTOR SHALL PROVIDE A COMPLETE RECIRCULATING SYSTEM, INCLUDING PUMPS, FILTRATION, PIPING, VALVES, AND CONTROLS, SIZED TO ACHIEVE CONSISTENT FLOW WITHOUT STREAKING OR DRY AREAS. THE WALL SURFACE SHALL BE TRUE, SMOOTH, AND FREE OF IRREGULARITIES THAT WOULD DISRUPT WATER FLOW. ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, DURABLE, AND MAINTAINABLE SYSTEM SHALL BE INCLUDED, COORDINATED WITH STRUCTURAL, ELECTRICAL AND POOL SYSTEMS, AND INSTALLED IN ACCORDANCE WITH THIS DESIGN INTENT.

2 L302 HARDSCAPE PLAN - OVERLOOK ENLARGEMENT

0' 5' 10' 20'



3 L302 WATER FEATURE CONCEPT RENDERING EXAMPLE



4 L302 WATER FEATURE CONCEPT REFERENCE EXAMPLE

KEYNOTES

- A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
- A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
- B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
- C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
- D) ASPHALT PAVING; RE: CIVIL SHEETS
- E) CONCRETE CURB; RE: CIVIL SHEETS
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- I) RETAINING WALL; RE: 9/L701
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- K) SEAT WALL; RE: 11/L701
- L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
- M) LANDSCAPING; RE: PLANTING SHEETS
- N) STEEL EDGING; RE: 4/L800
- O) TRASH ENCLOSURE; RE: 11/L700
- P) BUILDINGS; RE: ARCHITECTURE SHEETS
- Q) POOL/AQUATICS; RE: AQUATICS SHEETS
- R) WET DECK AREA; RE: AQUATICS SHEETS
- S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
- T) SIGNS; RE: SCHEDULE C
- U) STRIPING AND SYMBOLS; RE: SPECS
- V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
- W) TRENCH DRAIN; RE: 12/L701
- X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS

SITE LAYOUT NOTES

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D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

RAILING, FENCE, AND GATES; SCHEDULE A

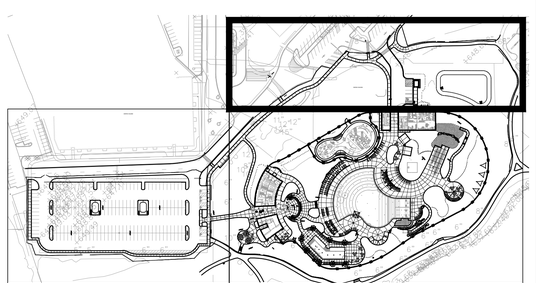
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ. SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L302 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

HARDSCAPE PLAN

L302

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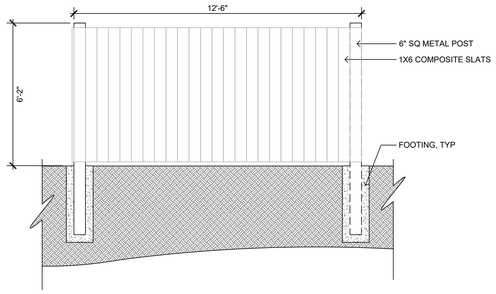
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SIZE

THE SQUARES ABOVE ARE SOLID COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

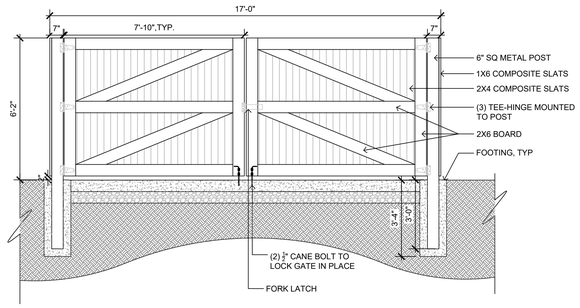
File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, pj30) working\10 autocad\200 sheet set manager\SHEETS\L300 Hardscape Plan / SAVE DATE: 3/5/2026 4:09 PM BY: jmiller / PLOT DATE: 3/5/2026 4:17 PM BY: Mark Miller

IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS SHEET IS CORRECTLY SCALED

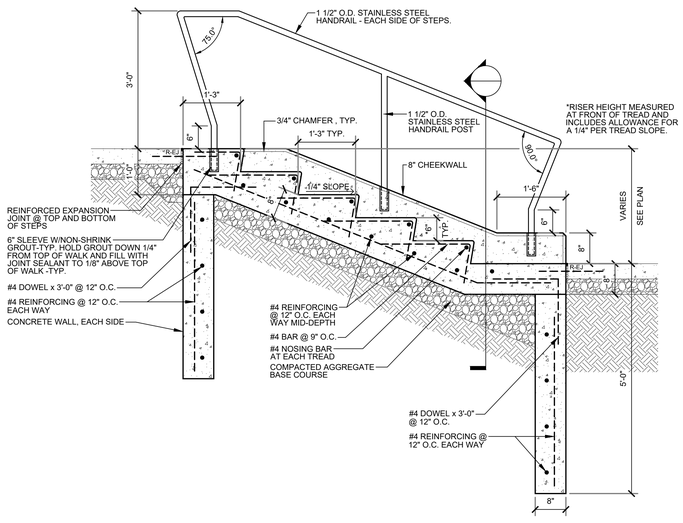
C M Y K
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY



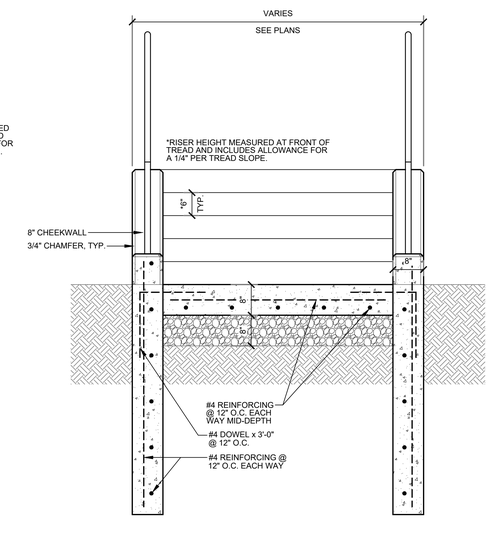
14 L700 TRASH ENCLOSURE SIDE SECTION — SCALE: 3/8" = 1'-0"

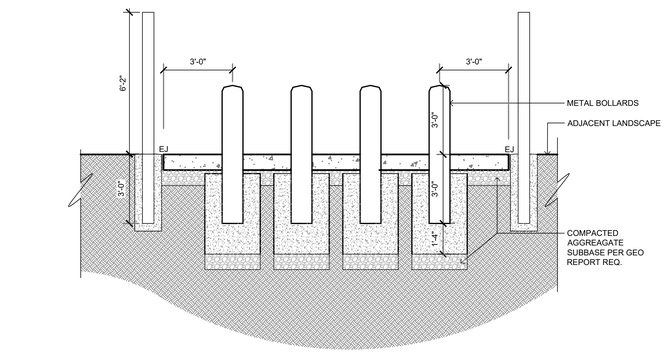


13 L700 TRASH ENCLOSURE GATES — SCALE: 3/8" = 1'-0"

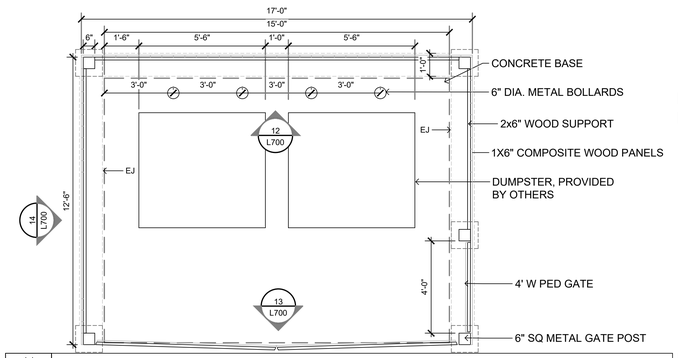


5 L700 CONCRETE STAIRS — SCALE: 3/4" = 1'-0"

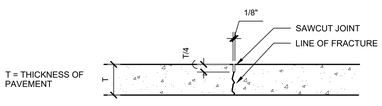




12 L700 TRASH ENCLOSURE — SCALE: 3/8" = 1'-0"

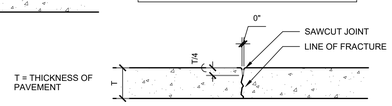


11 L700 TRASH ENCLOSURE LAYOUT — SCALE: 3/8" = 1'-0"



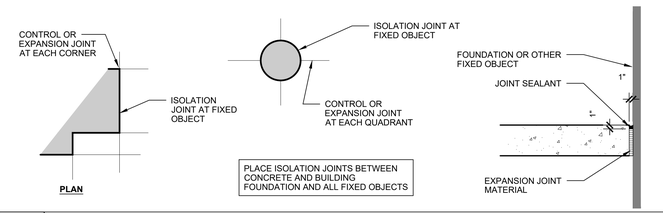
SAWCUT CONTROL JOINT

TOOLED JOINTS SHALL BE CONSTRUCTED AT A MINIMUM DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND INSURE A FREE MOVEMENT OF CONCRETE AT THE JOINT.



TOOLED CONTROL JOINT

10 L700 CONTROL JOINT TYP — N.T.S



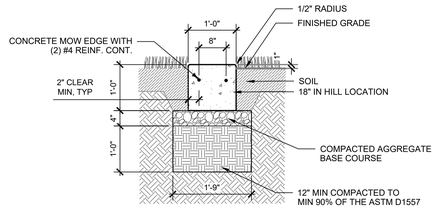
PLACE ISOLATION JOINTS BETWEEN CONCRETE AND BUILDING FOUNDATION AND ALL FIXED OBJECTS

9 L700 ISO JOINT TYP — N.T.S

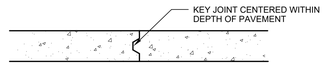
1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED TRANSVERSELY ALONG THE CURB EVERY 40'.

CONTROL JOINTS SHALL BE PLACED 10'-0" O.C. MAX.

4 L700 CONCRETE MOW STRIP TYP — SCALE: 3/4" = 1'-0"

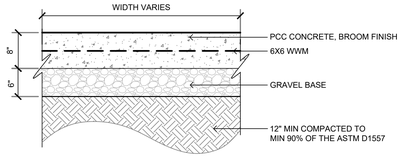


CONSTRUCTION JOINTS SHALL BE PLACED BETWEEN INDIVIDUAL POURS OF CONCRETE WHERE EXPANSION JOINTS DO NOT OCCUR.



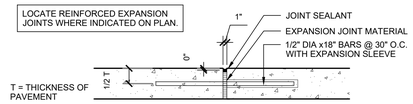
8 L700 CONSTRUCTION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



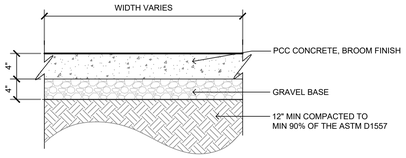
3 L700 PAVING TYPE 3 (REINF PPC) TYP — N.T.S

LOCATE REINFORCED EXPANSION JOINTS WHERE INDICATED ON PLAN.



7 L700 REINF. EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.
3. BROOM FINISH DYNAMIC COEFFICIENT OF FRICTION 0.6

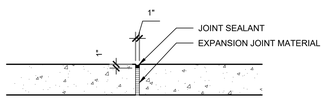


2 L700 PAVING TYPE 2 (POOL DECK) TYP — N.T.S

ALL EXPANSION JOINTS IN WALKS SHALL BE SEALED WITH A SELF LEVELING URETHANE JOINT SEALANT. ASTM C920 , MULTI-COMPONENT (M), GRADE P, CLASS 25, TRAFFIC (T) EXPOSURE. COLOR TO BE MANUFACTURERS STANDARD GRAY OR LIMESTONE.

CLEAN, PRIME, AND BACK JOINTS AS RECOMMENDED BY SEALANT MANUFACTURER. INSTALL IN ACCORDANCE WITH ASTM C1193.

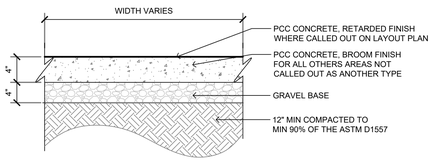
CLEAN OFF EXCESS SEALANT AND SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND MATERIALS APPROVED IN WRITING BY THE SEALANT MANUFACTURER.



SPACE EXPANSION JOINTS NOT TO EXCEED 35' IN CONCRETE WALKS AND WHERE INDICATED ON PLAN.

6 L700 EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



1 L700 PAVING TYPE 1 (SIDEWALK) TYP — N.T.S

CONFLUENCE

LANDSCAPE ARCHITECT
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307 N Michigan Avenue #601
Chicago, IL 60601
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ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
Chicago, IL 60601
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GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
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AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L700

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IF LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH LONG, ALL ITEMS ARE NOT PRINTED AT CORRECT SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AND NUMBERS CENTERED IN THEM

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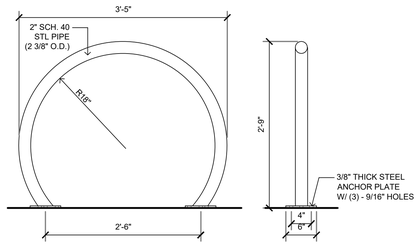
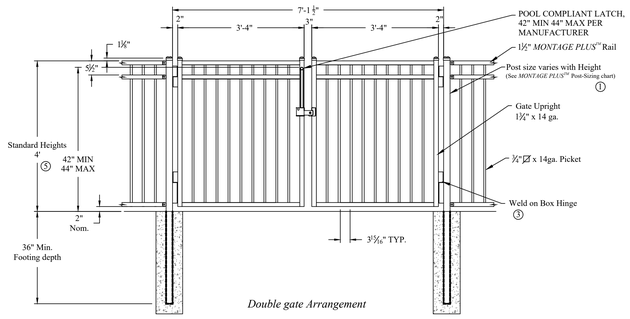
NOTES:
1. INSTALL PER MANUFACTURER SPECIFICATIONS
2. PRODUCT: NDS, SPEE-D CHANNEL DRAINS, 4" BOTTOM OUTLET AND DECORATIVE GRATES, COLOR TO BE DETERMINED
   GRAY CHANNEL, GRATE COLOR TO BE DETERMINED
3. MANUFACTURER:
   NDS
   NDSPRO.COM

12 / L701 — TRENCH DRAIN NTS



11 / L701 — BIKE RACK SCALE: 1" = 1'-0"

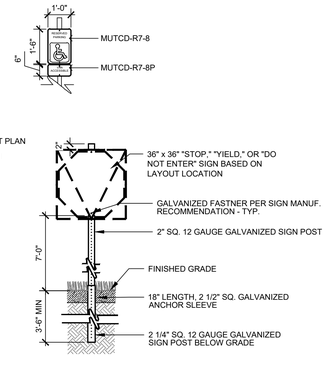


Double gate Arrangement

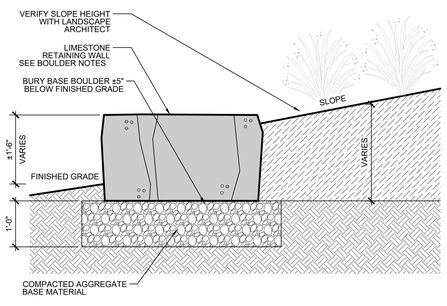
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

7 / L701 — GATE, DOUBLE PICKET - 7' OPENING SCALE: 1/2" = 1'-0"

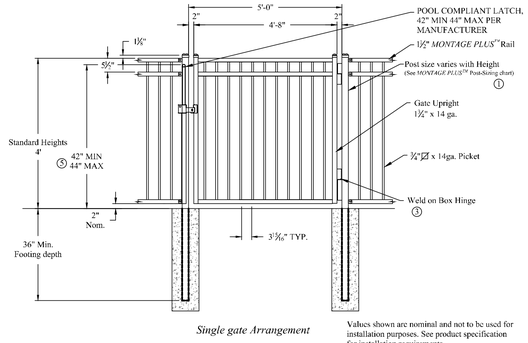
NOTES:
1. SIGNS TO CONFORM TO MUTCD STANDARDS
2. SUBMIT CUT SHEETS OF POLE, SIGNAGE, CAP FOR APPROVAL.
3. ADA SIGN 1 IS MUTCD-R7-8 AND GOES FOR ACCESSIBLE RESERVED PARKING.
4. ADA SIGN 2 IS MUTCD-R7-8P AND GOES FOR VAN ACCESSIBLE.
5. SIGN 2 TO FOLLOW SIGN 1 PER VAN ACCEPTABLE LOCATIONS PER PARKING ON LAYOUT PLAN LS100.
6. "DO NOT ENTER" SIGN IS MUTCD R5-1.



3 / L701 — ROAD SIGNS, TYP. SCALE: 3/8" = 1'-0"



10 / L701 — BOULDER WALL SCALE: 3/4" = 1'-0"

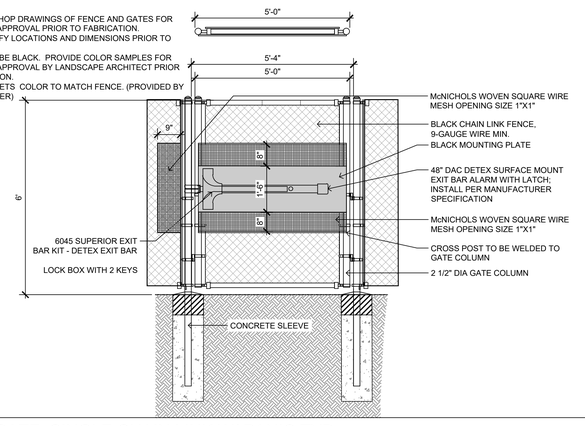


Single gate Arrangement

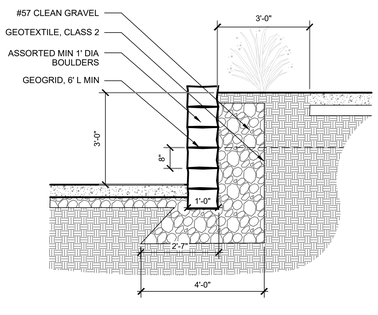
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

6 / L701 — GATE, SINGLE - 5' OPENING SCALE: 1/2" = 1'-0"

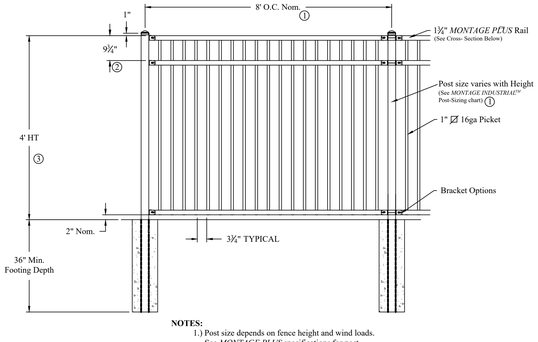
NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)



2 / L701 — GATE, SINGLE CHAIN LINK W/ PANIC TYP SCALE: 1/2" = 1'-0"



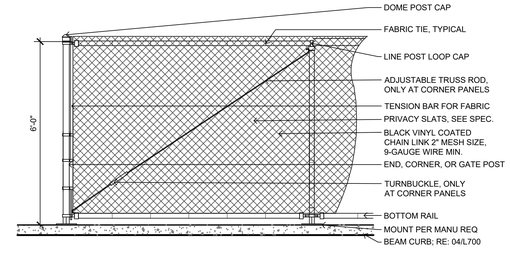
9 / L701 — RETAINING WALL SCALE: 1/2" = 1'-0"



NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE PLUS* specifications for post sizing chart and dimensions.
2.) Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

5 / L701 — FENCE PICKET (INTERNAL) TYP SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER).



1 / L701 — FENCE CHAIN LINK (PERIMETER) TYP SCALE: 1/2" = 1'-0"

CONFLUENCE

LANDSCAPE ARCHITECT
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307 N Michigan Avenue #601
Chicago, IL 60601
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www.thinkconfluence.com

ARCHITECT
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49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L701

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MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PSPMAJ26-0006, Request for Major Site Plan and Building Appearance Approval for the Construction of the Wheeling Park District Aquatics Center and Associated Site Improvements (105 Community Boulevard).

RECOMMENDED ACTION: **Recommend Approval of Docket No. PSPMAJ25-0006,** granting major site plan and building appearance approval for the construction of the Wheeling Park District aquatics center and associated site improvements for the property located at 105 Community Boulevard, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, Site Plan and Building Appearance Approval Requirements, in substantial compliance with the Project Description Letter prepared by Confluence, last revised 2/26/2026; Architectural Drawings prepared by Confluence, last revised 2/26/2026; Bike Rack Detail by DuMor, Inc. Sheets 1-2; Landscape Plan prepared by Confluence, last revised 3/27/2026; Materials Sample Board prepared by Confluence, last revised 2/26/2026; Mechanical Unit Specification and Envisor® Screening Detail; Photometric Plan prepared by Confluence, last revised 3/27/2026; Preliminary Civil Engineering Plans prepared by Confluence, last revised 3/27/2026; Rendering prepared by Confluence, last revised 2/26/2026; Site Plan Drawings prepared by Confluence, last revised 3/27/2026; Stormwater Report prepared by Gewalt Hamilton Associated, Inc., dated 12/12/2025; and subject to the following conditions:

1. Major site plan and appearance approval is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use associated with operation of a public park), PV26-0006 (variation to permit a reduction in the minimum number of required parking spaces); and Docket No. PV26-0007 (variation to permit an increase in the maximum lighting uniformity ratio).

2. A building permit must be obtained from the Community Development Department prior to commencing any construction of the aquatics center or parking lot, which shall include the following items to be submitted with the building permit application:

a. Architectural elevations/details for the pergola structure proposed over the concessions seating area.
b. Construction ready irrigation plans.
c. Specification for the trash enclosure panels and gates indicating the color of the composite material.
d. Detailed product specifications for any shade structures and umbrellas, cabanas, party shelters, etc., including identification of material(s) and color(s).

3. An unobstructed access path, a minimum of eighteen (18) inches in width, shall be maintained within the landscaped area to provide access to the fire department connection.

EXECUTIVE SUMMARY

GENERAL PROPERTY INFORMATION

Petitioner: Confluence, Inc. (325 W. Huron Street, Suite 602, Chicago, IL 60654) on behalf of the Wheeling Park District (property owner)

Location: 105 Community Boulevard

Property size: 103.8 acres (total acreage of Heritage Park)/ 7.34 acres (total development area)

Proposed Floor Area: 12,154 sq. ft. (primary building and mechanical building)

Neighboring Property Land Use(s):
North: Wheeling Village Hall and Police Department
West: Wheeling Park District Community Recreation Center (CRC)/Residential
South: Industrial/Residential
East: Residential/Institutional (across Wolf Road)

Existing Use of Property: Wheeling Outdoor Aquatics Center (Public Park)

Existing Zoning: MXT (Transit-Oriented Mixed Use), R-1 (Single Family Residential) and R-2 (Single-Family)

Comprehensive Plan Designation: Open Space

Zoning History:

- Ordinance No. 2698, approved May 20, 1991, granting Special Use and Site Plan Approval for an existing public park and development improvements (Docket # 1991-10).
- Ordinance No. 3067, approved August 21, 1995, granting an amendment to Sections A and B of Ordinance No. 2698, which granted Special Use and Site Plan Approval for a public park (Docket # 1995-20).
- Ordinance No. 3665, approved August 12, 2002, granting an amendment to Ordinance No's. 2698 and 3067, which granted Special Use and Site Plan Approval for a public park to expand the Aquatic Center Facility (Docket # 2002-22).

SUMMARY OF REQUEST

The petitioner is seeking major site plan and building appearance approval to redevelop the existing outdoor aquatics center at Heritage Park to create a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency and integrates cohesively with the surrounding park amenities and landscape features located at 105 Community Boulevard. Since the project consists of the construction of a new principal building, major site plan and building appearance approval is required.

Due to the full redevelopment of the Aquatic Center, the petitioner is also seeking an amendment to the special use (Docket No. PSU26-0003), along with a variation to reduce the minimum required number of parking spaces (PV26-0006) and a variation to permit an increase in the maximum lighting uniformity ratio (PV26-0007).

SITE ANALYSIS

For the purposes of promoting compatible development and ensuring adequate public facilities, Site Plan and Building Appearance review and approval is required prior to issuance of a building permit or commencing use of land, except for single and two-family residences. Site Plan review only involves the static aspects of a site – layout, parking, landscaping, fencing, etc., and not the land use or operations of a business. Appearance review only involves the aspects of exterior architectural design – style, form, scale, materials, colors, etc., and not the land use or operations of a business.

The Zoning Code requires that proposals including construction of a principal structure have a concept review by the Village Board before being reviewed by the Plan Commission, unless waived by the Village Administrator. The petitioner presented the Concept Review to the Village Board on January 19, 2026. As this request is for major site plan and building appearance approval, the Commission's recommendation will be forwarded to the Village Board for a final decision.

The Wheeling Park District proposes to redevelop the existing outdoor aquatic facilities at Heritage Park with a new

aquatic center where the overall design prioritizes clear site organization, intuitive circulation, and safe operations. The centrally located bathhouse and concessions building serves as the primary public entry point into the aquatic complex, establishing a clear arrival sequence from existing parking areas and park circulation routes. The concessions area is designed to serve both aquatics center patrons and general park users, providing year-round convenience for park visitors.

Site Plan: The proposed redevelopment includes demolition of the entire existing outdoor aquatics center facility pools and structures, to be fully replaced with new pool facilities, bathhouses, concessions building, and a mechanical building within the same general footprint as the existing aquatic center. A primary change to the site layout is the reorientation of the main building from a north-facing to a west-facing entrance, shifting the primary access point further south and west towards the existing parking lot located west of the existing facility.

Historically, guests accessed the aquatic center from the parking lot located to the northeast; between the existing facility and the Health and Fitness Center. As part of the redevelopment, the entrance will be reconfigured to direct traffic to the parking lot located west of the facility, which has previously been underutilized. This parking lot will be reconstructed and will incorporate underground stormwater volume control to accommodate detention requirements associated with the improvements. The majority of patrons will utilize this “west” parking lot to access the new aquatics center.

The redeveloped Aquatic Center will include a primary building (bathhouse and concessions), a mechanical building, a recreation pool with a diving board, an adult leisure pool, zero-depth entry play structure, a splash pad, and multiple body and drop slides, as depicted on the Overall Pool Layout Exhibit.
Pedestrian circulation, grading, stormwater management, and landscape improvements have been coordinated throughout the site to enhance accessibility, manage drainage and reinforce connections to the broader Heritage Park system.

A primary water feature will be located at the main entrance to the Aquatics Center. The feature will consist of an approximately 3 foot tall CMU wall finished with a stone veneer façade. A concealed weir system will be integrated at the top of the wall to ensure uniform water distribution across the full width of the feature, as depicted on Sheet L302 of the Site Plan Drawings.

Sidewalk: The proposed improvements include new sidewalks along the west and south sides of the reconstructed “west” parking lot, as well as a new sidewalk crossing on Community Boulevard to connect to the existing sidewalk on the north side of the street and provide access to the Metra parking lot. Collectively, these improvements will enhance pedestrian circulation and create a safer, more direct connection between the aquatics center and the surrounding Wheeling Town Center residential area.

Fencing: The proposal includes new 6’ tall black vinyl coated chain link fencing to secure the aquatics center and control access to the site. The fencing is generally located around the perimeter of the facility and specific operational areas, including pool enclosures and service areas, to ensure safety and restricted unauthorized access where necessary. In addition, a 4’ tall black picket fence will surround the splash pad area located in the northwest portion of the aquatics center.

Trash Enclosure: A free-standing trash enclosure is proposed within the small parking lot serving the mechanical building. The six-foot tall enclosure walls and gates will be constructed of 1” x 6” composite slats supported by 6” square metal posts. The gates will be equipped with cane bolts to secure them in an open or closed position. The pavement area in front of the trash enclosure will be striped to prevent vehicles from parking and obstructing access.

Building Elevations: The primary building consists of the bathhouse and concessions; two buildings separated by the guest entry plaza and shares an integrated roof structure, which will appear as one main building element. The primary exterior material of the 6,754 sq. ft. main building consists of precast concrete panels incorporating a recessed wave “formliner” pattern to create a crescendo wave effect across the primary west façade. Circular “porthole” window elements, composed of blue-colored glazing, are integrated throughout the elevation to provide visual interest and allow natural light into interior spaces.

As shown on the attached Material Board, the design is further enhanced through the use of complementary materials, including simulated wood soffit panels (Parklex Prodema in White American Oak) at roof overhangs, perforated stainless steel accent panels, and prefinished PAC-CLAD metal fascia in graphite color.

The east and west curved wall elements are connected by flat, acid-etched precast panels, with the east curved walls also utilizing the wave “formliner” to frame glazed openings and exterior lockers. The combination of textured precast, metal, and wood-look materials creates a cohesive, contemporary aesthetic that reinforces the aquatic theme while adding depth and variation to the building façades.

Mechanical Building: A separate 5,400 sq. ft. mechanical building is proposed along the north end of aquatic center and will incorporate many of the same design attributes of the primary building. A central breezeway divides the structure and serves as a controlled access point for day campers, maintenance personnel and emergency vehicles. Smaller secondary bathrooms, lockers, showers and a concessions area are included to help distribute crowds and reduce congestion at the main building. The majority of the eastern portion of the mechanical building houses mechanical systems that serve the facility. The building is enclosed with precast concrete panels that mirror the main building design, including the wave “formliner” integrated pattern treatment and circular “porthole” elements.

Rooftop Units: A rooftop mechanical unit will be located on the primary building and will be screened with an Envisor® metal panel roof screen. In addition, a ground-mounted mechanical unit will be located southeast of the primary building, within the fenced aquatic area, and will be screened with landscaping. A ground-mounted mechanical unit will serve the mechanical building and will be installed at the northeast corner of the building, along the north façade, and will be screened with landscaping.

Parking: The redevelopment of the aquatic center will reposition the main guest entry to the west and will take advantage of the existing “west” parking lot (located west of the existing aquatics center and south of The One Apartment complex) to serve as the main parking area. The use of the existing “west” parking lot will focus guest traffic away from the existing Health and Fitness Center and provide greater parking availability than its current configuration. The project will include a reconstruction of the “west” lot to incorporate needed stormwater management landscaped islands, which will result in a decrease in parking spaces from the current parking layout. The reconfigured parking lot will provide 192 parking spaces, with seven ADA-accessible parking spaces located along the east side of the lot, in close proximity to the building entrance. In addition, an eleven-space bicycle rack will be installed to the northeast of the “west” parking lot, along the existing walkway.

Pursuant to the off-street parking standards for outdoor swimming pools, a parking ratio of 1 space per 8 bathers is required. Based on the proposed maximum capacity of 2,847 bathers, a total of 356 parking spaces are required. Accordingly, the petitioner is requesting a variation to reduce the required number of parking spaces from 356 spaces to 192 spaces (Docket No. PV26-0006). Additional 250 parking spaces are available at the existing Sports Complex parking lot, which will continue to serve overflow demand during peak periods. Furthermore, a significant portion of the facility’s users are anticipated to arrive via school bus or other group transportation, which reduces on-site parking demand. Given the reuse of the existing parking area, the availability of nearby supplemental parking, the provision of bicycle accommodations, and the anticipated travel patterns of patrons, staff finds that the proposed parking supply to be reasonable.

Landscaping: The attached Landscape Plan provides a comprehensive planting design organized across three planting areas (Areas A, B and C of the attached landscape plans). The plan incorporates a mix of canopy and understory trees, evergreen and deciduous shrubs, ornamental grasses, and perennial plantings distributed throughout the site to enhance aesthetics, provide screening, and support stormwater management.

Landscape treatments include hardwood mulch planting beds, low-mow seed areas, decorative gravel, groundcover plantings, ornamental grasses, and native bio-mix plantings within the stormwater management areas in the parking lot.

Perimeter landscaping is enhanced with continuous planting beds and tree groupings that frame the site, soften views of parking and structures, and integrate the development into the surrounding environment. Additional plantings are concentrated around key pedestrian areas, building entrances, and amenity spaces to improve the overall user experience.

An irrigation system is also included, consisting of a combination of drip irrigation and rotary sprinkler systems to ensure adequate coverage of all planting areas and promote long-term plant health.

Lighting: The proposed lighting plan includes new site and building-mounted fixtures to serve the new aquatics

center, including parking areas, pathways, sidewalks, and facility structures. The design incorporates a combination of pole-mounted and pedestrian-scale fixtures to provide appropriate illumination throughout the site. Existing parking lot fixtures will be removed and relocated as part of the redevelopment. Lighting will be controlled through a centralized system with zoning and sequencing to ensure efficient operation and compliance with energy standards.

The photometric analysis demonstrates that lighting levels across the site are designed to provide adequate illumination for safety and visibility while maintaining a generally uniform distribution of light. The uniformity ratio measures the difference between the brightest and darkest areas within the parking lot, with lower ratios indicating more consistent lighting conditions. While the Village Code permits a maximum uniformity ratio of 4:1, the proposed lighting plan results in a ratio of 6:1 within the parking lot. This indicates that certain areas of the lot will experience a greater disparity in light levels compared to what is typically permitted. As a result, the petitioner is requesting a variation to allow the increased uniformity ratio (Docket No. PV26-0007).

Recreational Amenities and Aquatic Features: Internal aquatic equipment is proposed to include a variety of pools, play structures, splash pad, and multiple water slides as depicted on the Overall Pool Layout Exhibit. Supporting facility amenities include shaded seating areas with umbrellas, shade structures, cabanas, party shelters, landscaped lawn terraces, and an overlook terrace featuring an integrated water element. The internal configuration and final selection of aquatic equipment will be finalized by the Park District in coordination with the Cook County Department of Public Health. Detailed specifications regarding materials and color schemes for these amenities will need to be provided within the building permit submittal to ensure consistency with the overall design and compatibility with the surrounding park environment.

STAFF REVIEW

Fire Department Review: Comments from the Fire Department have been incorporated into the conditions of approval. There are no comments at this time. The Fire Department will conduct an additional review during the building permit review.

Engineering Division Review: There are no comments at this time. The Engineering Division will conduct an additional review during the building permit review.

Staff Recommended Actions: Staff recommends approval of this request, subject to the following conditions:

1. Major site plan and appearance approval is contingent upon approval of Docket No. PSU26-0003 (amendment to an existing Special Use associated with operation of a public park), PV26-0006 (variation to permit a reduction in the minimum number of required parking spaces); and Docket No. PV26-0007 (variation to permit an increase in the maximum lighting uniformity ratio).

2. A building permit must be obtained from the Community Development Department prior to commencing any construction of the aquatics center or parking lot, which shall include the following items to be submitted with the building permit application:

a. Architectural elevations/details for the pergola structure proposed over the concessions seating area.
b. Construction ready irrigation plans.
c. Specification for the trash enclosure panels and gates indicating the color of the composite material.
d. Detailed product specifications for any shade structures and umbrellas, cabanas, party shelters, etc., including identification of material(s) and color(s).

3. An unobstructed access path, a minimum of eighteen (18) inches in width, shall be maintained within the landscaped area to provide access to the fire department connection.

******

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of major site plan and building appearance approval, the appropriate motion would be to:

Recommend Approval of Docket No. PSPMAJ25-0006, granting major site plan and building appearance approval for the construction of the Wheeling Park District aquatics center and associated site improvements for the property located at 105 Community Boulevard, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, Site Plan and Building Appearance Approval Requirements, in substantial compliance with the Project Description Letter prepared by Confluence, last revised 2/26/2026; Architectural Drawings prepared by

Confluence, last revised 2/26/2026; Bike Rack Detail by DuMor, Inc. Sheets 1-2; Landscape Plan prepared by Confluence, last revised 3/27/2026; Materials Sample Board prepared by Confluence, last revised 2/26/2026; Mechanical Unit Specification and Envisor® Screening Detail; Photometric Plan prepared by Confluence, last revised 3/27/2026; Preliminary Civil Engineering Plans prepared by Confluence, last revised 3/27/2026; Rendering prepared by Confluence, last revised 2/26/2026; Site Plan Drawings prepared by Confluence, last revised 3/27/2026; Stormwater Report prepared by Gewalt Hamilton Associated, Inc., dated 12/12/2025; and subject to the following conditions:

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3. An unobstructed access path, a minimum of eighteen (18) inches in width, shall be maintained within the landscaped area to provide access to the fire department connection.

ATTACHMENTS:

Attachments to Staff Report (Staff)
Project Description Letter prepared by Confluence, last revised 2/26/2026
Architectural Drawings prepared by Confluence, last revised 2/26/2026
Bike Rack Detail by DuMor, Inc. Sheets 1-2
Landscape Plan prepared by Confluence, last revised 3/27/2026
Materials Sample Board prepared by Confluence, last revised 2/26/2026
Mechanical Unit Specification and Envisor® Screening Detail
Overall Pool Layout Exhibit
Photometric Plan prepared by Confluence, last revised 3/27/2026
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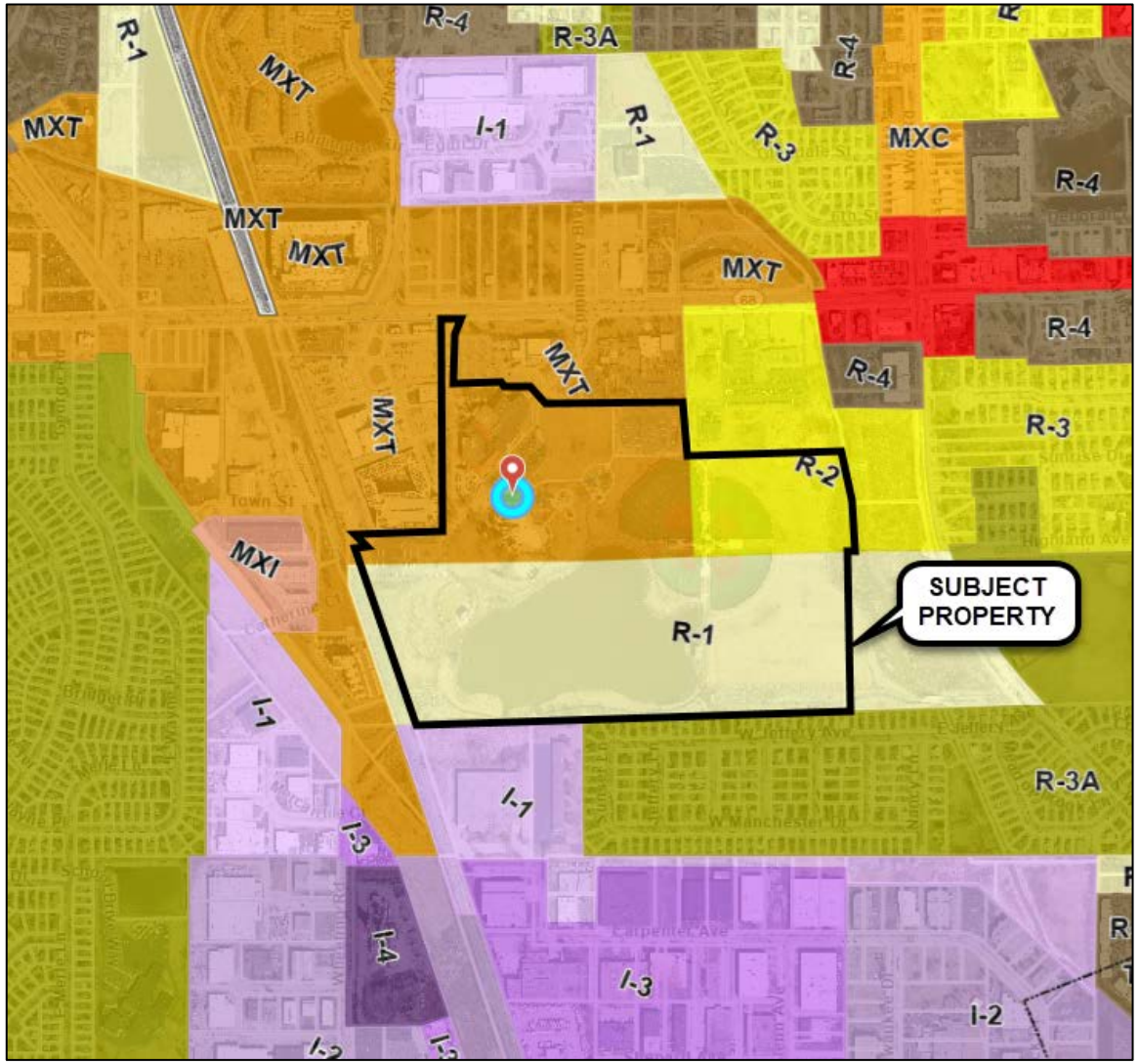
Rendering prepared by Confluence, last revised 2/26/2026
Site Plan Drawings prepared by Confluence, last revised 3/27/2026
Stormwater Report prepared by Gewalt Hamilton Associated, Inc., dated 12/12/2025



LOCATION MAP



ZONING MAP



Photo of the Existing Parking Lot Located Southwest of the Aquatics Center.



Photo of the crosswalk between The One Apartments and the west side of the parking lot, facing south.

~~Jan 30, 2026~~ Feb 26, 2026

RE: Wheeling Aquatic Center, 25070
Narrative Description

Project Address: 105 Community Boulevard, Wheeling, Illinois

Prepared By: Confluence, Inc.
ATTN: Terry Berkbuegler, PLA
Principal + Landscape Architect
325 W Huron Street, Suite 602
Chicago, Illinois 60654

Owner and Developer Information
Owner and or Developer: Wheeling Park District
ATTN: Jan Buchs
Executive Director
100 Community Blvd
Wheeling, IL 60090

Summary of Proposed Development and Intent
The new Wheeling Aquatic Center project consists of the comprehensive redevelopment of the existing outdoor aquatic facilities at Heritage Park, located at 105 Community Boulevard in Wheeling, Illinois. The proposed development is intended to create a modern, family oriented aquatic destination that enhances community recreation, improves operational efficiency, and integrates cohesively with surrounding park amenities and landscape features.

The overall design prioritizes clear site organization, intuitive circulation, and safe operations. A centrally located bathhouse and concessions building serves as the primary public entry point into the aquatic complex, establishing a clear arrival sequence from existing parking areas and park circulation routes. Controlled access points and logical internal circulation support efficient staffing, clear wayfinding, and patron safety.

The anticipated general public operating hours for the Wheeling Aquatic Center are 10:00 a.m. to 7:00 p.m., 7 days per week during the summer season. Limited morning programming may occur prior to public opening, including swim lessons and small group activities. Occasional special events may also be scheduled in the evening after public closing hours. These extended use periods will be limited in frequency and managed by Park District staff to ensure compatibility with surrounding park uses.

Description of Proposed Buildings
The design of the main bathhouse and mechanical buildings for the Wheeling Aquatics Center is based on providing durable, functional structures that meet the diverse operational needs of the facility while creating an engaging and enjoyable aesthetic experience for users.

The main bathhouse building is conceived as two interconnected structures separated by a central entry space, defined by an illuminated perforated metal entry pylon and an elevated cantilevered roof. The north portion of the building contains unconditioned changing areas, toilet rooms, and showers. These spaces are designed to comply with all applicable Illinois Plumbing Code and Illinois Department of Public Health requirements for aquatic facilities. Additional access control points allow limited toilet room use during shoulder seasons when the pools are closed. Individual unisex and family changing/toilet rooms are also provided in this portion of the building.

The south portion of the bathhouse contains conditioned spaces, including concessions, an IT room, guard support areas, first aid, and mechanical functions. The concession area is designed to serve both aquatics center patrons and general park users, while the toilet rooms provide year-round convenience for park visitors. The guard support area is strategically located to maintain clear views of adjacent aquatic areas for security and operational control. Ample daylighting is provided throughout the building via clerestory glazing located beneath the continuous roof overhang that encircles the structure.

- The total enclosed area of the main bathhouse building is 6,754 square feet.

The architectural character of the building is driven by the goal of expressing its aquatic function through form, color, and texture while maintaining a cost-effective and durable building envelope. Precast concrete was selected as the primary exterior material due to its durability, economy, and aesthetic versatility. A recessed wave formliner creates a crescendo wave pattern across the primary west façade, drawing attention toward the main entry. Circular “bubble” elements composed of blue-colored glass punctuate the elevation, allowing daylight into interior spaces and animating the façade at night. As an alternate, these elements may be constructed as circular recessed panels with embedded crushed blue glass. Subtle variations in color and texture distinguish the smooth formliner areas from the surrounding acid-etched panels. The east and west curved wall elements are connected by flat, acid-etched panels, with the east curved walls utilizing the wave formliner to frame glazed openings and exterior kit lockers.

The mechanical building located to the north incorporates many of the same design attributes as the main bathhouse. A central breezeway divides the structure and serves as a controlled access point for day campers, maintenance personnel, and emergency vehicles. Smaller secondary toilet rooms, lockers, showers, and a concessions area are included to help distribute use and reduce congestion at the main bathhouse. The majority of the eastern portion of the building houses mechanical systems serving all pools. Architecturally, the building is enclosed with precast concrete panels that mirror the bathhouse design, including the wave formliner and blue “bubble” elements.

- The total enclosed area of the mechanical building is 5,400 square feet.

Site Features and Uses

The aquatic program includes a diverse range of water features designed to serve a wide range of ages, abilities, and recreational preferences. These include a recreation pool with varied depths for swimming and general use, a resort style leisure pool with shallow lounging areas, and a zero depth entry play structure that supports inclusive access for younger users and individuals with mobility limitations. A separate splash pad provides interactive water play without the need for swimming. Active recreation elements include a slide complex with multiple body slides, drop slides, and a vertical drop slide, strategically located to maintain separation from leisure areas while providing

visual interest and excitement. A diving board area is incorporated into the recreation pool to support traditional aquatic programming.

Supporting site amenities include shaded seating areas with umbrellas and shade structures, cabanas, party shelters, landscaped lawn terraces, outdoor storage, screened service areas, and an overlook terrace with an integrated water feature. Pedestrian circulation, grading, stormwater management, and landscape improvements are coordinated throughout the site to enhance accessibility, manage drainage, and reinforce connections to the broader Heritage Park system.

Site and Area Calculations

- Total contiguous ownership interest: 103.8 acres
- Total Development Area: 7.34 acres
- Total Building(s) Floor Area: 12,154 square feet
- Total Number of Parking Spaces
    - West parking lot: 193 pool spaces proposed vs. 188 pool spaces required per Ordinance No. 2017-5118
    - Overall Park District property: 673 required, 713 provided
- Total Number of Bike Spaces
    - 24 spaces (12 racks, 2 spaces per rack)
- Total Impervious Surface Area: 2.43 (proposed); 2.35 (Existing)
- Total Non-Impervious Green Space: 4.31 (proposed); 4.53 (existing) square feet
- Open Pool water: 0.60 acres (proposed); 0.46 acres (existing)
- Total maintenance area*: 1.46 acres
    - *note: maintenance area is for west parking lot asphalt repavement

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ONLY. IF THIS SHEET IS ORIGINAL PAGE SIZE

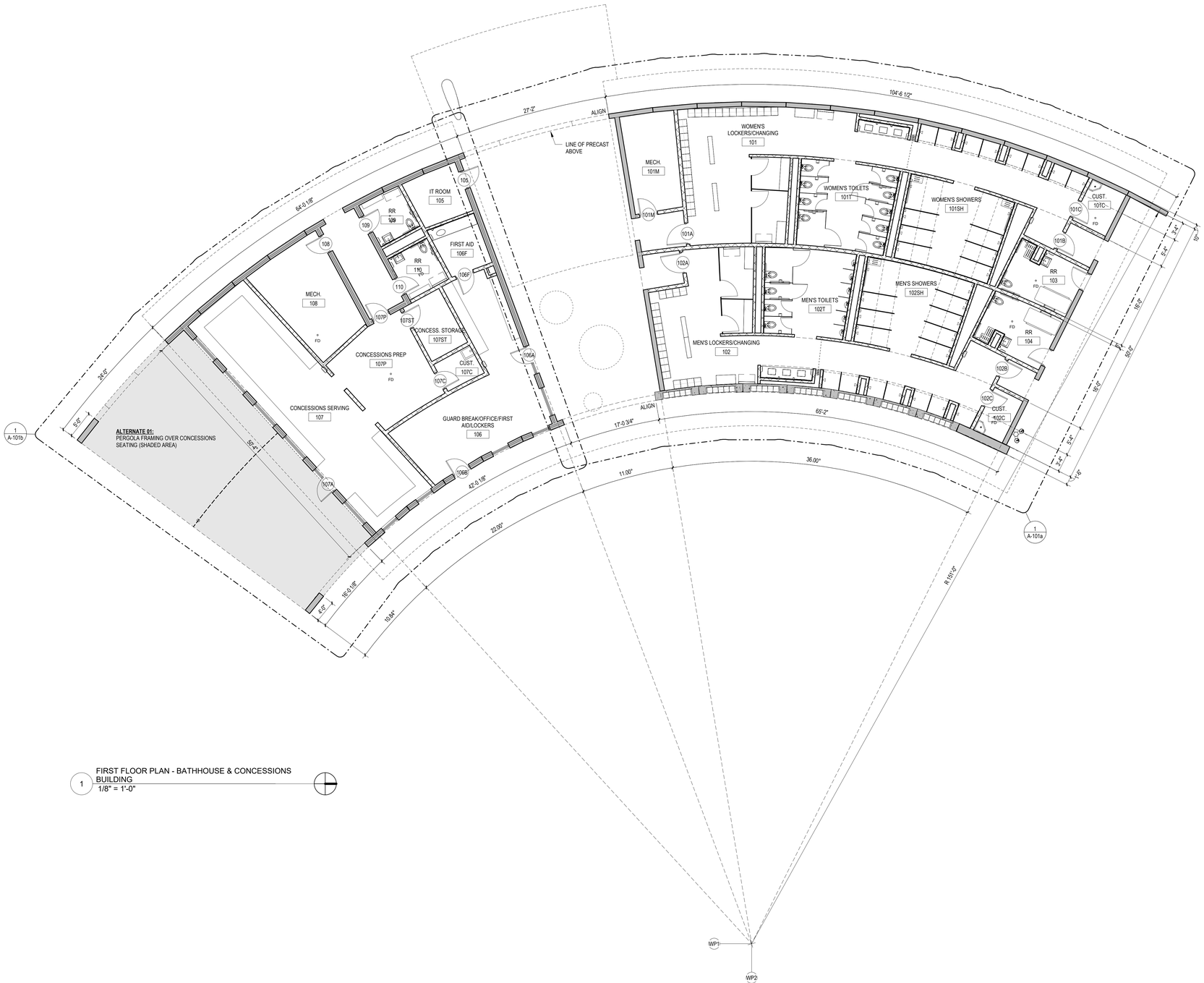
ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
N001	PHENOLIC LOCKER ROOM BENCH (9 1/2"D)
N002	PHENOLIC ADA LOCKER ROOM BENCH (20"x48")
N003	PHENOLIC CHANGING ROOM BENCH (20"D)
N004	CLINIC COT FOOTPRINT, SHOWN HATCHED
N005	RETRACTABLE GATE ASSEMBLY
N006	SWINGING GATE ASSEMBLY W/INTEGRATED POST AND MAN DOOR - REFER TO LANDSCAPE DRAWINGS
N008	OVERHEAD SECURITY DOOR ASSEMBLY
N009	VENDING MACHINE EQUIPMENT
N010	CONCESSIONS SEATING AREA FENCING - SEE LANDSCAPE DRAWINGS

FLOOR PLAN LEGEND

- 1 / A101 SIM — DETAIL SECTION TAG
- 1 / A101 SIM — BUILDING & WALL SECTION TAG
- M8 — WALL TYPE - REFER TO A-611 FOR WALL TYPES
- 101 — DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE
- ROOM NAME / 101 — ROOM NAME / ROOM NUMBER
- A101 Ref — INTERIOR ELEVATION TAG
- A101 1 Ref — EXTERIOR ELEVATION TAG
- 0 — COLUMN TAG AND COLUMN CENTERLINE
- A101 Ref 1 — STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
- FE — FIRE EXTINGUISHER - WALL MOUNTED
- FEC — SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
- FD — FLOOR DRAIN
- N### — NEW WORK NOTE
- 30X52 — ACCESSIBILITY CLEARANCE - SEE FLOOR PLAN FOR SIZES MARKED IN GRAY
- 67" DIAMETER TURNING CIRCLE ACCESSIBILITY CLEARANCE

NOTE: DIMENSIONS SHOWN IN THIS PLAN ARE TO THE FACE OF CMU WALL ASSEMBLIES, U.N.O. DIMENSION STRINGS WITH 'F.F.' INDICATE DIMENSIONS TO FINISH FACE MATERIAL



1 FIRST FLOOR PLAN - BATHHOUSE & CONCESSIONS BUILDING
1/8" = 1'-0"

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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

FIRST FLOOR PLAN - BATHHOUSE & CONCESSIONS

A-101

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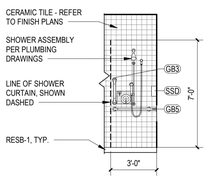
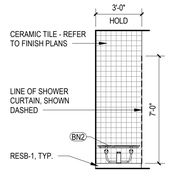
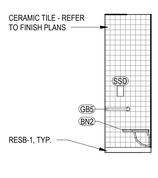
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SCALE ON ARCH D SHEETS



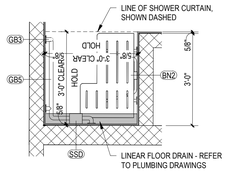
6 INT. ELEV. - SHOWER - SOUTH
1/4" = 1'-0"



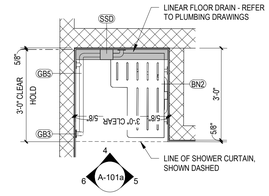
5 INT. ELEV. - SHOWER - NORTH
1/4" = 1'-0"



4 INT. ELEV. - SHOWER - WEST
1/4" = 1'-0"



3 ENLARGED PLAN - RR104 SHOWER
1/2" = 1'-0"



2 ENLARGED PLAN - RR103 SHOWER
1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE

BN1	BOBRICK B-5193 FOLDING SHOWER SEAT
BN2	BOBRICK B-5181 REVERSIBLE FOLDING SHOWER SEAT
CHT	BABY CHANGING STATION
CHT-A	ADULT CHANGING STATION
GB1	36" HORIZONTAL GRAB BAR
GB2	42" HORIZONTAL GRAB BAR
GB3	18" VERTICAL GRAB BAR
GB4	48" HORIZONTAL GRAB BAR
GB5	TWO-WALL GRAB BAR
M1	4'-0" X 3'-0" MIRROR
SD	WALL MOUNTED SOAP DISPENSER
SSD	WALL MOUNTED SHOWER SOAP DISPENSER
SN	SANITARY NAPKIN DISPOSAL
SR1	SHOWER CURTAIN ROD | EXPOSED MOUNTING | 1" OD
TP	TOILET PAPER DISPENSER
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER

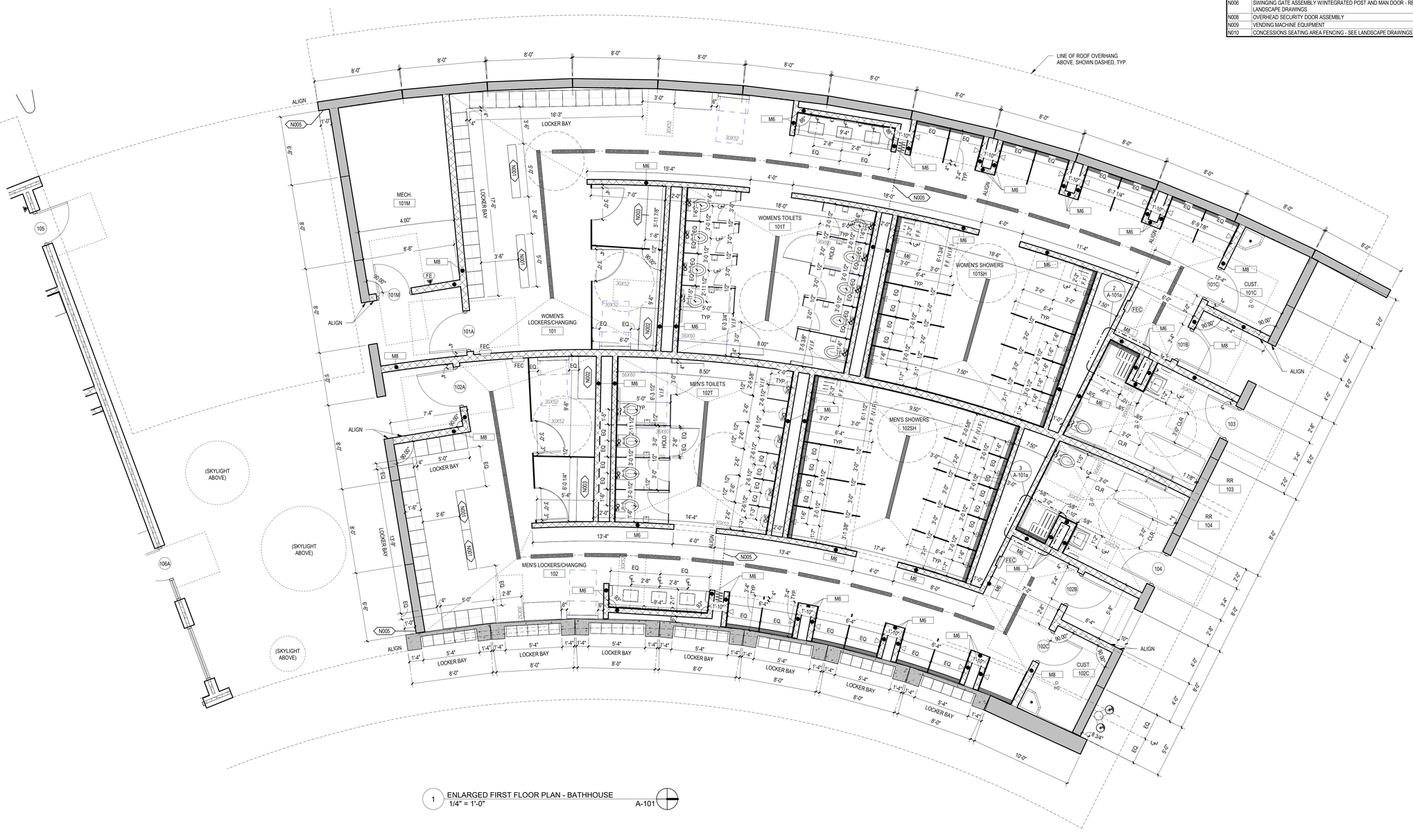
NOTE:
1. REFER TO G-201 FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES AND ACCESSORIES.
2. ELEVATIONS ARE FROM FINISHED TILE SURFACES.
3. ALL TOILET STALLS TO HAVE 1'-0" TOE CLEARANCE.
4. BOTTOM OF ALL SHOWER PARTITIONS TO BE 6" ABOVE FINISHED FLOOR

FLOOR PLAN LEGEND

- 1 / A101 SIM — DETAIL SECTION TAG
- FE — FIRE EXTINGUISHER - WALL MOUNTED
- 1 / A101 SIM — BUILDING & WALL SECTION TAG
- FEC — SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
- M8 — WALL TYPE - REFER TO A-611 FOR WALL TYPES
- FD — FLOOR DRAIN
- N### — NEW WORK NOTE
- 101 — DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE
- 30X52 — ACCESSIBILITY CLEARANCE - SEE FLOOR PLAN FOR SIZES MARKED IN GRAY
- ROOM NAME / 101 — ROOM NAME / ROOM NUMBER
- 67" DIAMETER TURNING CIRCLE ACCESSIBILITY CLEARANCE
- A101 / 1 Ref — INTERIOR ELEVATION TAG
- **NOTE: DIMENSIONS SHOWN IN THIS PLAN ARE TO THE FACE OF CMU WALL ASSEMBLIES, U.N.O. DIMENSION STRINGS WITH 'F.F.' INDICATE DIMENSIONS TO FINISH FACE MATERIAL**
- A101 / 1 Ref — EXTERIOR ELEVATION TAG
- 0 — COLUMN TAG AND COLUMN CENTERLINE
- A101 / Ref -1 — STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION

ARCHITECTURAL PLAN NOTES N###

NOTE	DESCRIPTION
N001	PHENOLIC LOCKER ROOM BENCH (9 1/2"D)
N002	PHENOLIC ADA LOCKER ROOM BENCH (20"x48")
N003	PHENOLIC CHANGING ROOM BENCH (20"D)
N004	CLINIC COT FOOTPRINT, SHOWN HATCHED
N005	RETRACTABLE GATE ASSEMBLY
N006	SWINGING GATE ASSEMBLY W/INTEGRATED POST AND MAN DOOR - REFER TO LANDSCAPE DRAWINGS
N008	OVERHEAD SECURITY DOOR ASSEMBLY
N009	VENDING MACHINE EQUIPMENT
N010	CONCESSIONS SEATING AREA FENCING - SEE LANDSCAPE DRAWINGS



1 ENLARGED FIRST FLOOR PLAN - BATHHOUSE
1/4" = 1'-0"
A-101

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920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
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FIRST FLOOR PLAN - BATHHOUSE

A-101a

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH (25.4 MM) WHEN PLOTTED AT FULL SCALE

ARCHITECTURAL PLAN NOTES N####

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1 ENLARGED FIRST FLOOR PLAN - CONCESSIONS BUILDING
1/4" = 1'-0" A-101

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1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

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FIRST FLOOR PLAN - CONCESSIONS

A-101b

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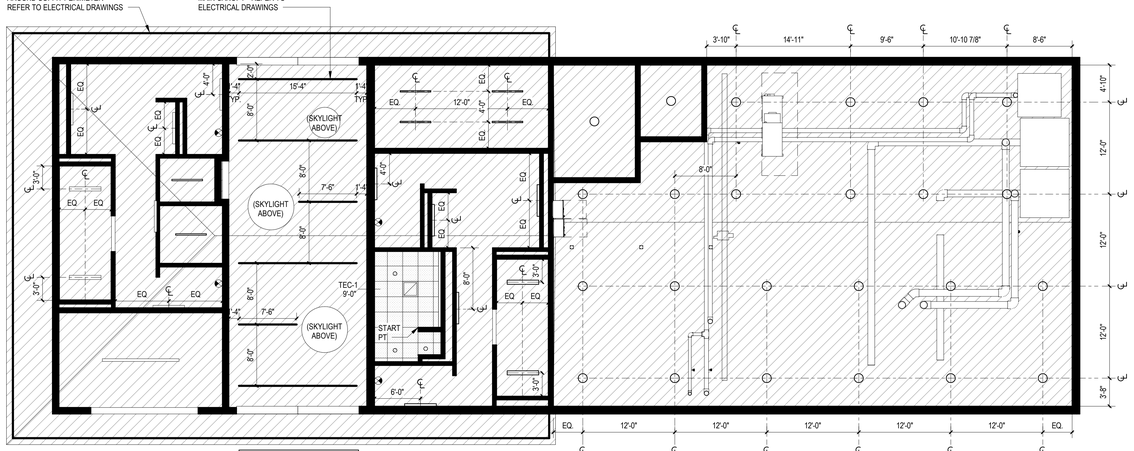
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SCALE ON ARCH E1 SHEETS

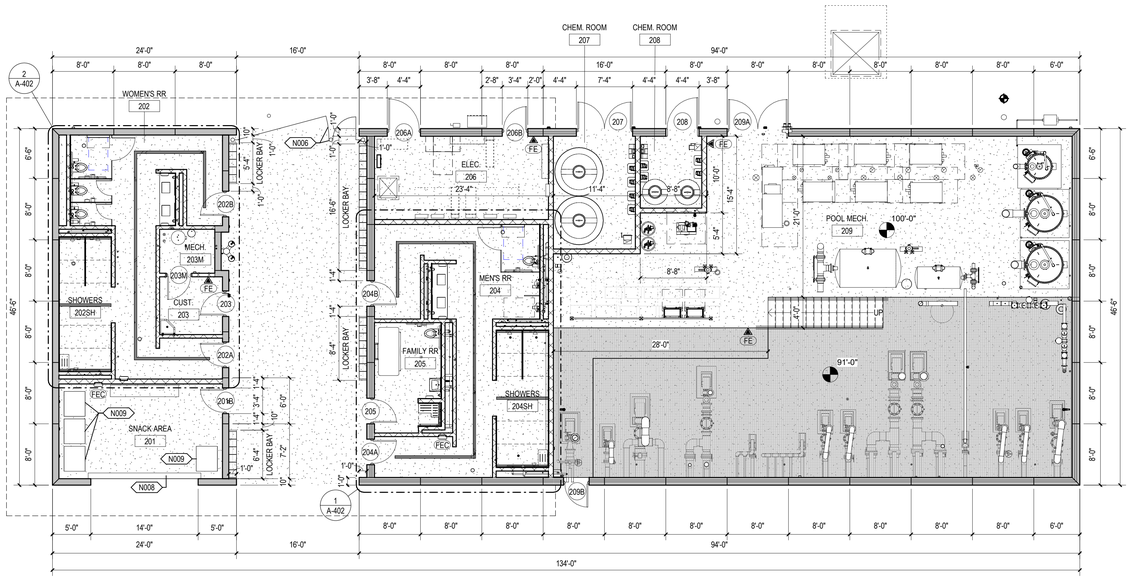
CONTINUOUS LINEAR LIGHTING AROUND SOFFIT PERIMETER - REFER TO ELECTRICAL DRAWINGS

RECESSED LINEAR LIGHTING IN MAIN CANOPY - REFER TO ELECTRICAL DRAWINGS



NOTE: REFER TO MEP DRAWINGS FOR CONDUIT AND PIPING IN AREAS WITH EXPOSED CEILINGS

2 REFLECTED CEILING PLAN - MECHANICAL BUILDING
1/8" = 1'-0" A-101a



1 FIRST FLOOR PLAN - MECHANICAL BUILDING
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- FINISHED CEILING ELEVATION
- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE *BASIS OF DESIGN: ARMSTRONG PRELUDE PLUS SOLID ALUMINUM W/TECTUM PANELS*
- METAL SOFFIT PANEL
- EXPOSED CEILING
- RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED CAN WALL WASHER - REFER TO ELECTRICAL DRAWINGS
- 1' X 4' SURFACE MOUNTED LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED 1' X 4' INDUSTRIAL LUMINAIRE
- RECESSED 4" LINEAR FIXTURE
- DROPPED PENDANT MOUNTED
- SUSPENDED TRANSLUCENT RESIN PANEL SYSTEM
- RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- ROUND SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- LINEAR SLOT SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
- CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
- EMERGENCY WALL LIGHT
- EMERGENCY EXIT SIGN
- RECESSED BUSWAY SYSTEM - REFER TO ELECTRICAL DRAWINGS
- SD — SMOKE DETECTOR
- OS — OCCUPANCY SENSOR
- DS — DAYLIGHT SENSOR
- SC — SECURITY CAMERA
- AV — AV SPEAKERS
- WAP — WIRELESS ACCESS POINT

ARCHITECTURAL PLAN NOTES (N###)

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1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

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FIRST FLOOR PLAN & RCP - MECHANICAL BUILDING

A-102

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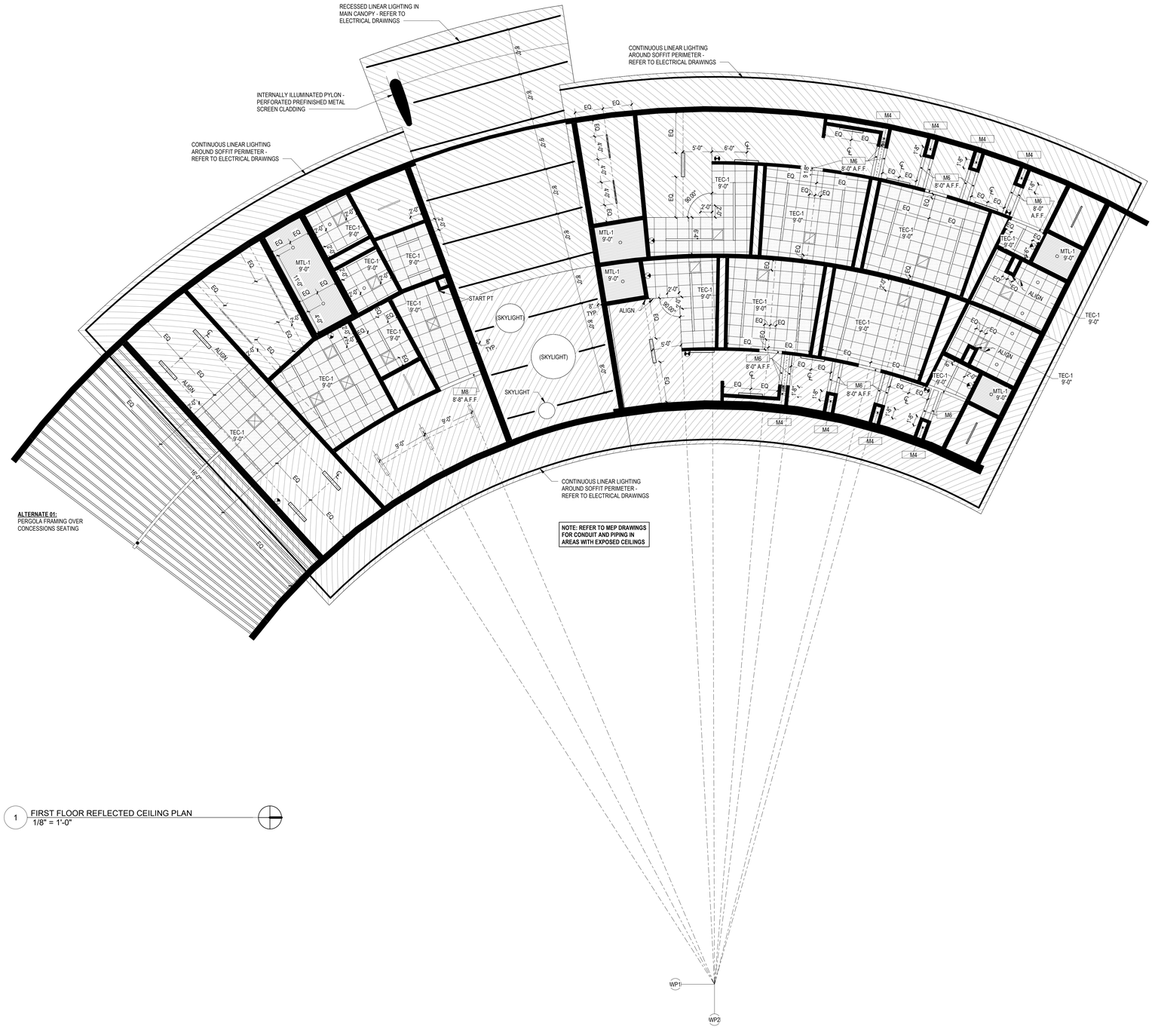

1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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- FINISHED CEILING ELEVATION
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FIRST FLOOR RCP - BATHHOUSE & CONCESSIONS

AC101

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT IS NOT, ADJUST DRAWING SCALE.

ROOF PLAN LEGEND

- AREA OF SLOPED STRUCTURE
- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF TAPERED INSULATION - REFER TO ROOF PLAN FOR SLOPE
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- # — TOTAL HEIGHT OF INSULATION IN INCHES NOT INCLUDING COVER BOARD
- METAL COPING AND JOINT - REFER TO DETAILS 5/A-521 (HORIZONTAL) AND 6/A-521 (VERTICAL)
- VP — VENT PIPE ROOF PENETRATION
- **EF** — EXHAUST FAN - REFER TO MECHANICAL DRAWINGS
- **EH** — EXHAUST HOOD - REFER TO MECHANICAL DRAWINGS
- **MU** — MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS

ROOF CONSTRUCTION NOTES - ENTRY BUILDING

ROOF AREA 01: 4,106 SF
METAL DECK
INSULATED ROOFING

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION (R34 AVERAGE MINIMUM), STAGGER JOINTS, SET IN INSULATION ADHESIVE.
4. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
5. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
6. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
7. INSTALL WALKWAY PADS.
8. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
9. INSTALL LIGHTNING PROTECTION SYSTEM.

ROOF AREA 02: 1,450 SF
ROOF AREA 03: 5,388 SF
METAL DECK
UNINSULATED ROOFING

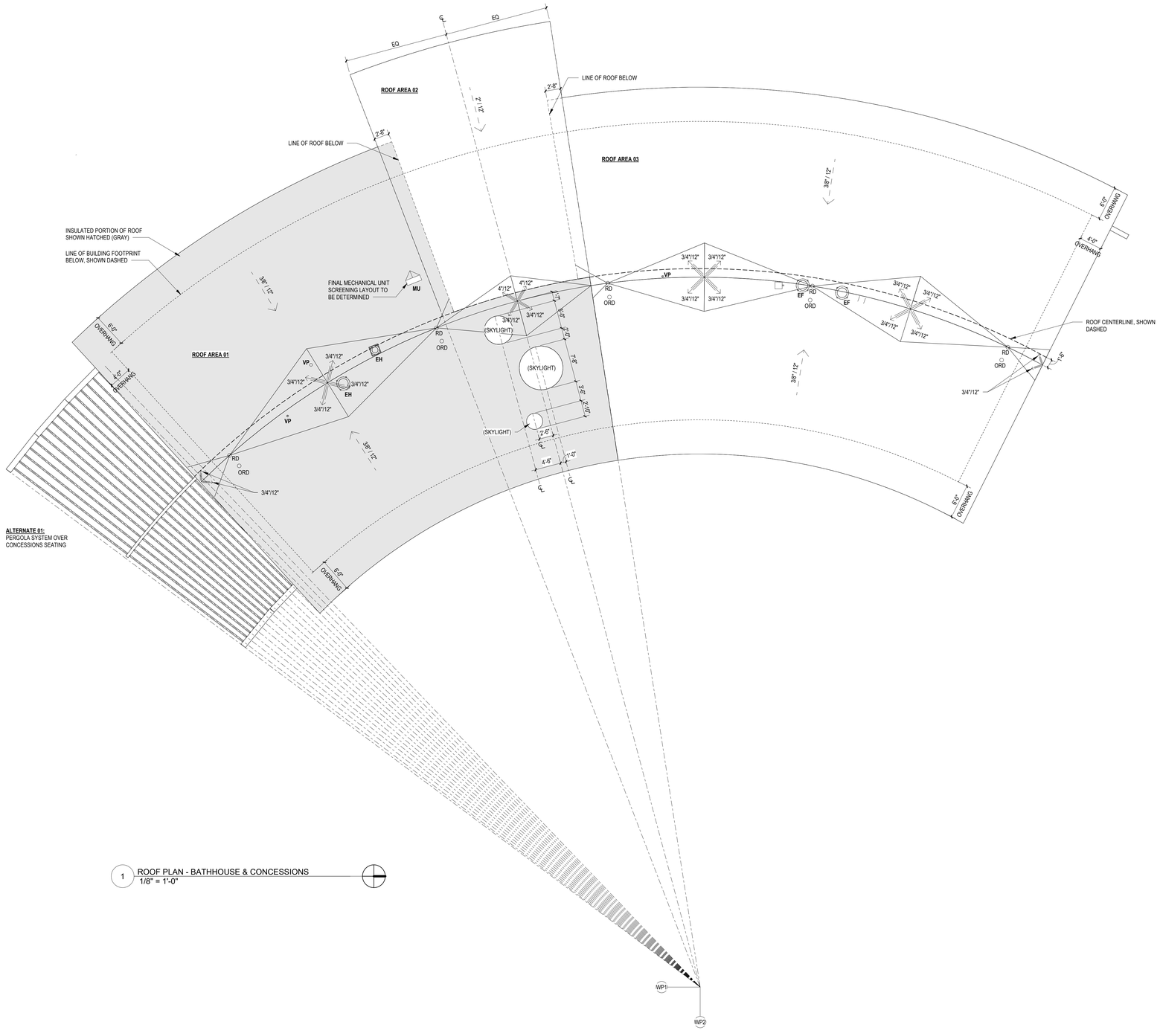
1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL WALKWAY PADS.
7. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
8. INSTALL LIGHTNING PROTECTION SYSTEM.

GENERAL ROOF NOTES

1. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
3. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
4. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
5. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
6. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
7. APPLY MEMBRANE MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
8. DRAINS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.
9. PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
10. WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
11. SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL DECK ONLY.
12. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
13. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.
14. REFER TO "ROOF PLAN LEGEND" ON SHEETS AR101 & AR102.

ROOF PLAN FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 ***(PAINT)*** SCREW.
6. EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.



ALTERNATE 01:
PERGOLA SYSTEM OVER CONCESSIONS SEATING

1 ROOF PLAN - BATHHOUSE & CONCESSIONS
1/8" = 1'-0"

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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

ROOF PLAN - BATHHOUSE & CONCESSIONS

AR101

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT ITS ORIGINAL PLOTTED SIZE

ROOF PLAN LEGEND

- AREA OF SLOPED STRUCTURE
- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF TAPERED INSULATION - REFER TO ROOF PLAN FOR SLOPE
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- # — TOTAL HEIGHT OF INSULATION IN INCHES NOT INCLUDING COVER BOARD
- METAL COPING AND JOINT - REFER TO DETAILS 5/A-521 (HORIZONTAL) AND 6/A-521 (VERTICAL)
- VP — VENT PIPE ROOF PENETRATION
- **EF** — EXHAUST FAN - REFER TO MECHANICAL DRAWINGS
- **EH** — EXHAUST HOOD - REFER TO MECHANICAL DRAWINGS
- **MU** — MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS

ROOF CONSTRUCTION NOTES - MECHANICAL BUILDING

ROOF AREA 04: 2,493 SF
METAL DECK
UNINSULATED ROOFING

1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL WALKWAY PADS.
7. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
8. INSTALL LIGHTNING PROTECTION SYSTEM.

ROOF AREA 05: 1,342 SF
ROOF AREA 06: 3,006 SF
METAL DECK
INSULATED ROOFING

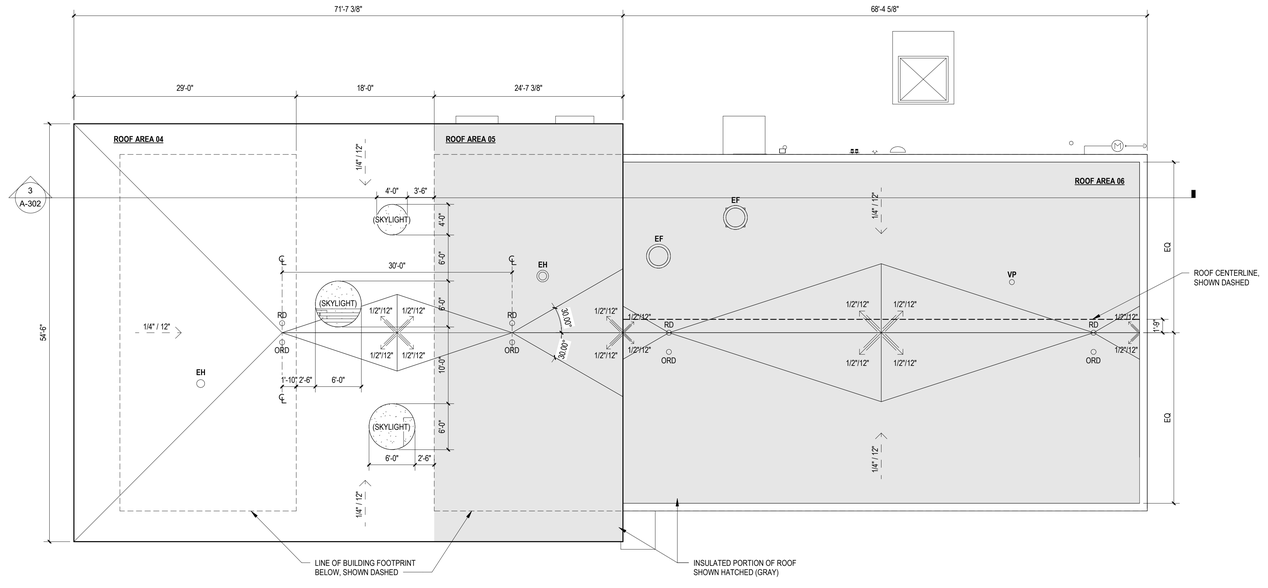
1. INSTALL DECK SHEATHING.
2. INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
3. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION (R34 AVERAGE MINIMUM). STAGGER JOINTS, SET IN INSULATION ADHESIVE.
4. INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE.
5. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
6. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
7. INSTALL WALKWAY PADS.
8. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.
9. INSTALL LIGHTNING PROTECTION SYSTEM.

GENERAL ROOF NOTES

1. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
3. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
4. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
5. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
6. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
7. APPLY MEMBRANE MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
8. DRAINS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.
9. PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
10. WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
11. SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL DECK ONLY.
12. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
13. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.
14. REFER TO "ROOF PLAN LEGEND" ON SHEETS AR101 & AR102.

ROOF PLAN FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 ***(PAINT)*** SCREW.
6. EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.



1 ROOF PLAN - BATHHOUSE & CONCESSIONS
1/8" = 1'-0" A-202

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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

ROOF PLAN - MECHANICAL BUILDING

AR102

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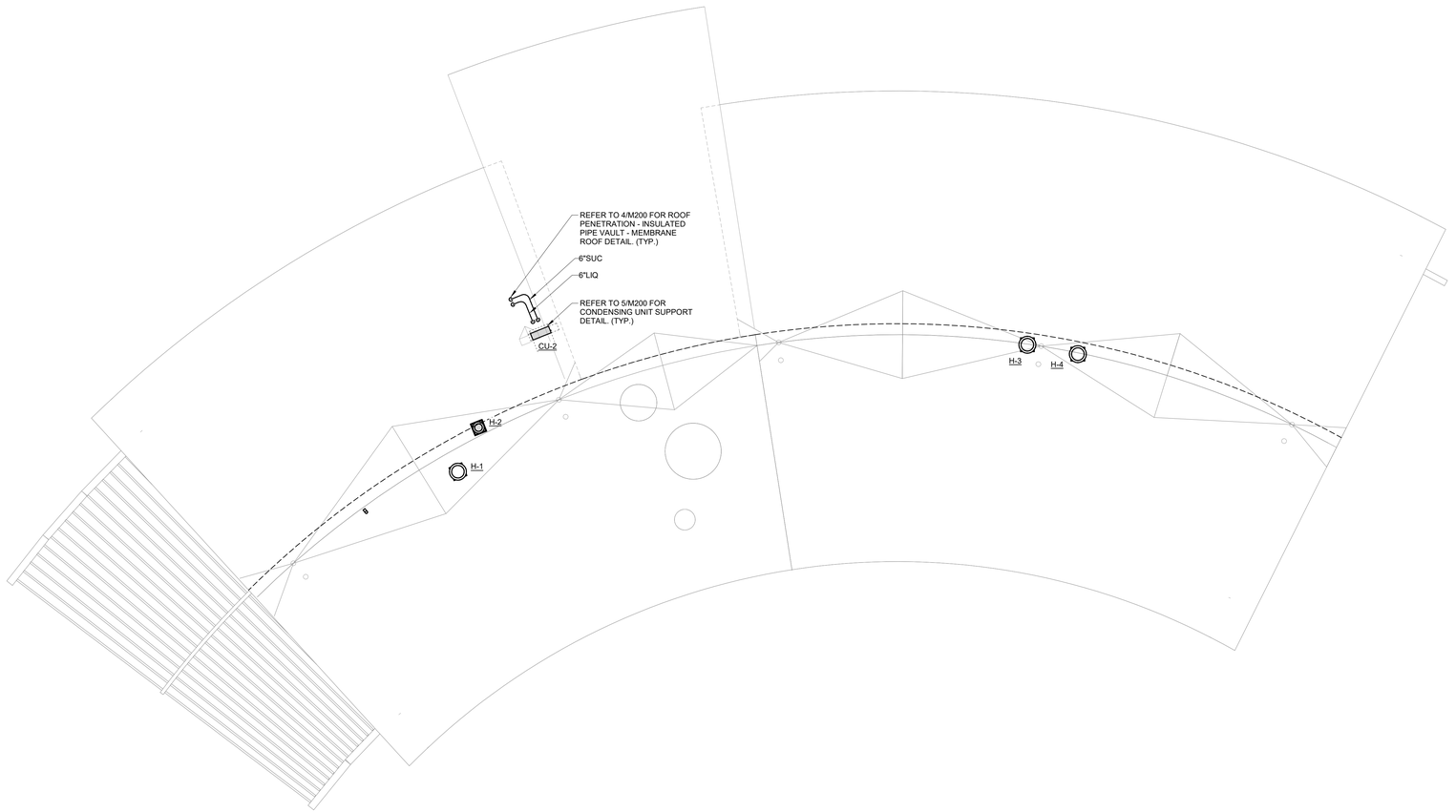

NORTH

1 **ROOF PLAN - HVAC - BATH HOUSE & CONCESSIONS**

1/8" = 1'-0"

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Revision Schedule

NO.	DATE	DESCRIPTION
	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ROOF PLAN - HVAC - BATH HOUSE & CONCESSIONS

M-112A

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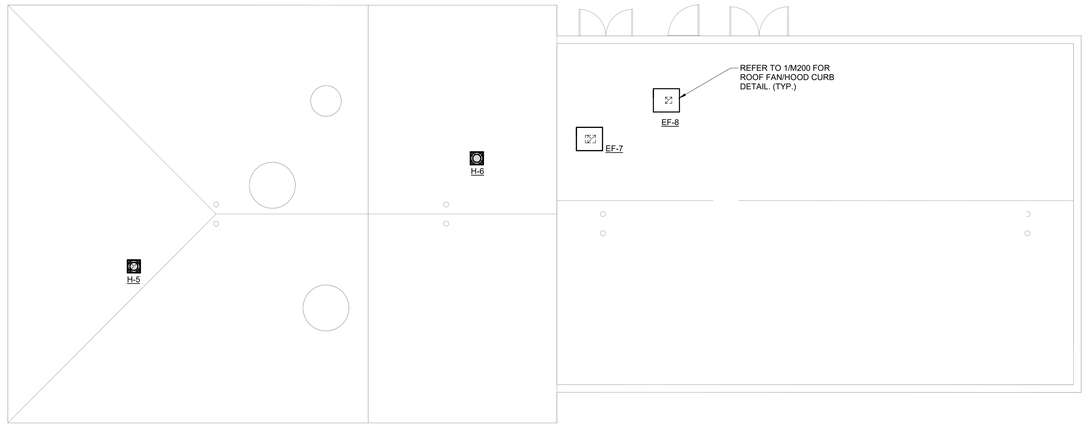

NORTH

1 ROOF PLAN - HVAC - MECHANCAL & RESTROOM

1/8" = 1'-0"

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PROJECT #25005326.00

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Revision Schedule

NO.	DATE	DESCRIPTION
	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ROOF PLAN - HVAC - MECHANCAL & RESTROOM

M-112B

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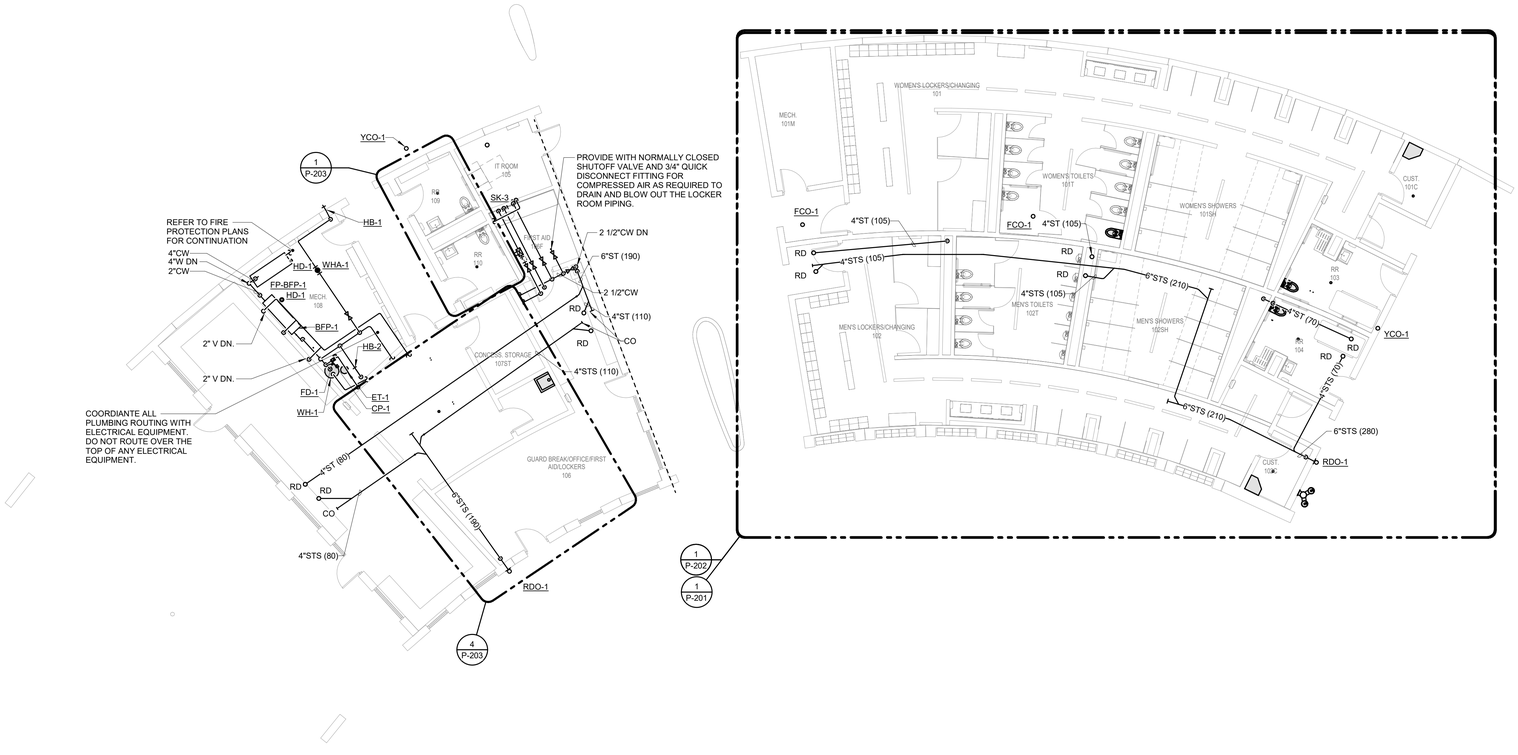
GENERAL SHEET NOTES:

1. ALL BALANCING VALVES TO BE 0.5 GPM UNLESS NOTED OTHERWISE.



1 FIRST FLOOR PLAN - PLUMBING - BATH HOUSE & CONCESSIONS

1/8" = 1'-0"

NORTH

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NO.	DATE	DESCRIPTION
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Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
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Project Number	225093.00
Issue	-
Date	02/06/2026

FIRST FLOOR PLAN - PLUMBING - BATH HOUSE & CONCESSIONS

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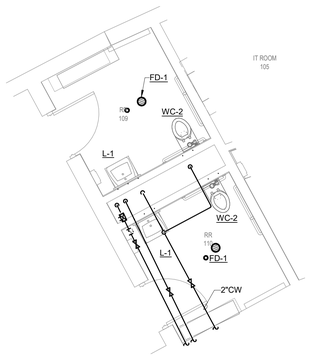

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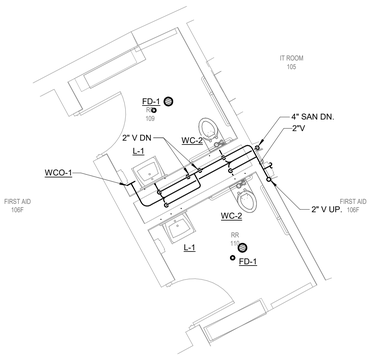
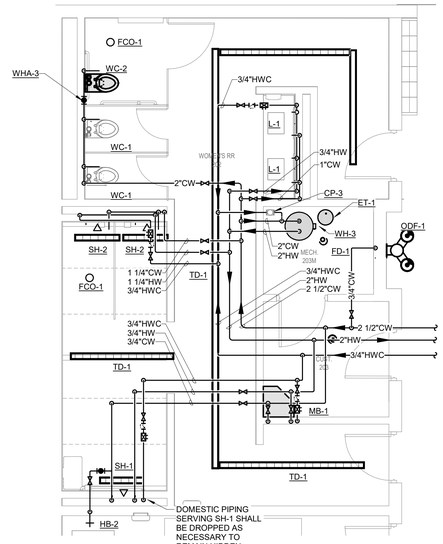


SAN-VENT

1 ENLARGED PLAN RR-1 TOILETS - PLUMBING
1/4" = 1'-0"



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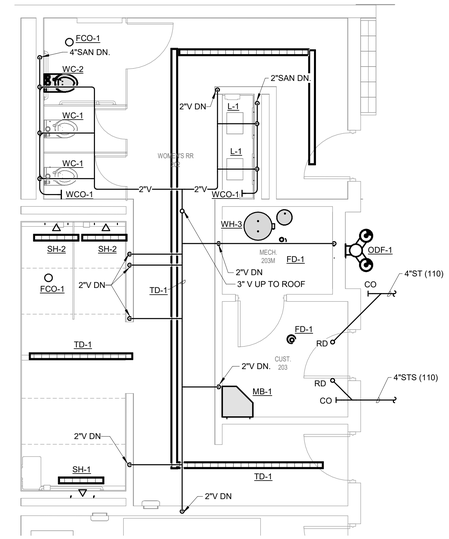
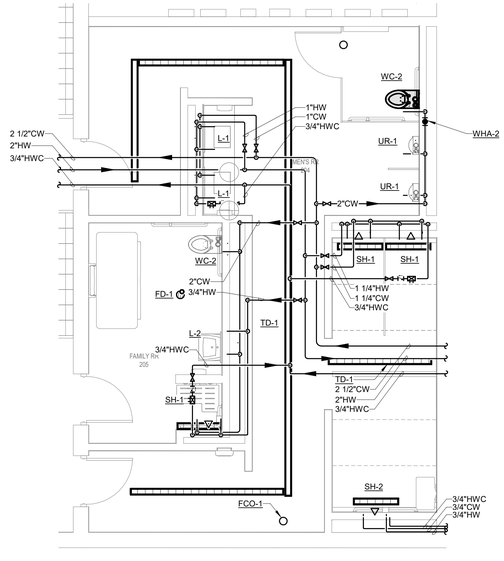


SAN-VENT

2 ENLARGED PLAN RR-1 - MECHANICAL & RESTROOM - PLUMBING
1/4" = 1'-0"



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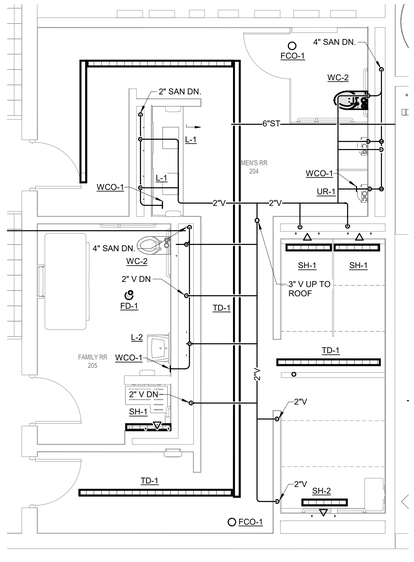
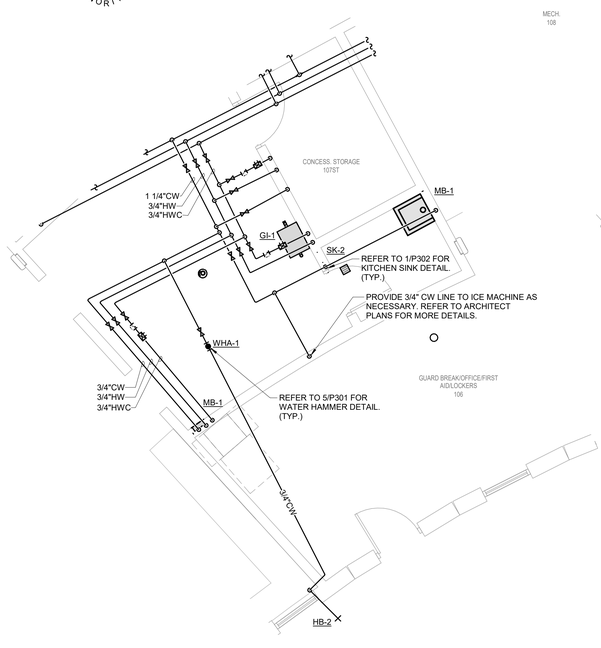


SAN-VENT

3 ENLARGED PLAN RR-2 - MECHANICAL & RESTROOM - PLUMBING
1/4" = 1'-0"



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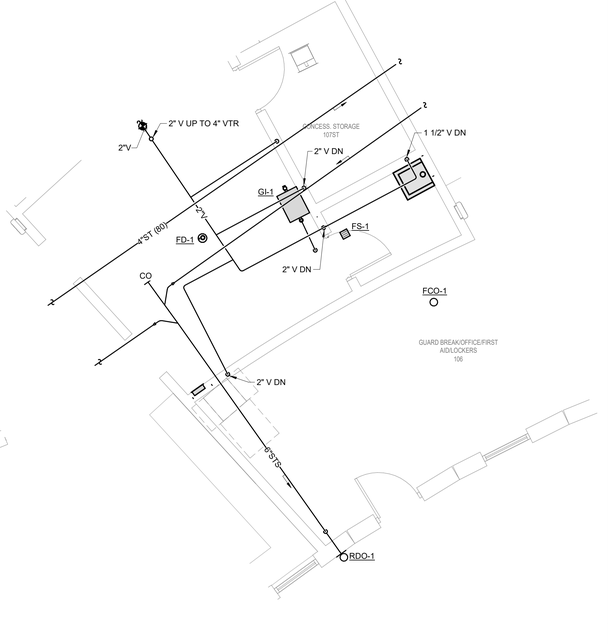

SAN-VENT

4 ENLARGED PLAN - CONCESSIONS PREP
1/4" = 1'-0"

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PROJECT #25005326.00

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Revision Schedule

NO.	DATE	DESCRIPTION
	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

PLUMBING ENLARGED PLANS

P-203

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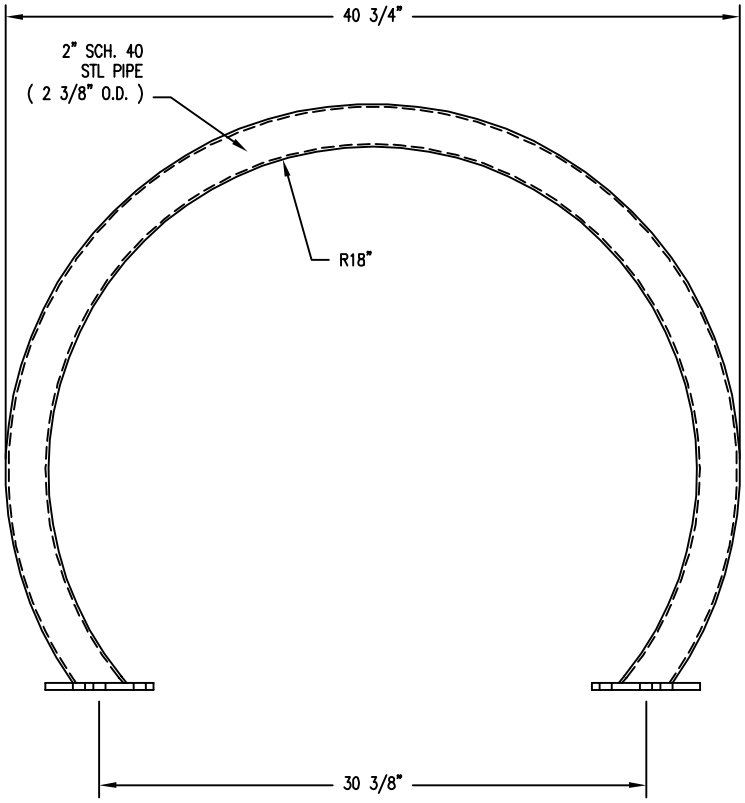
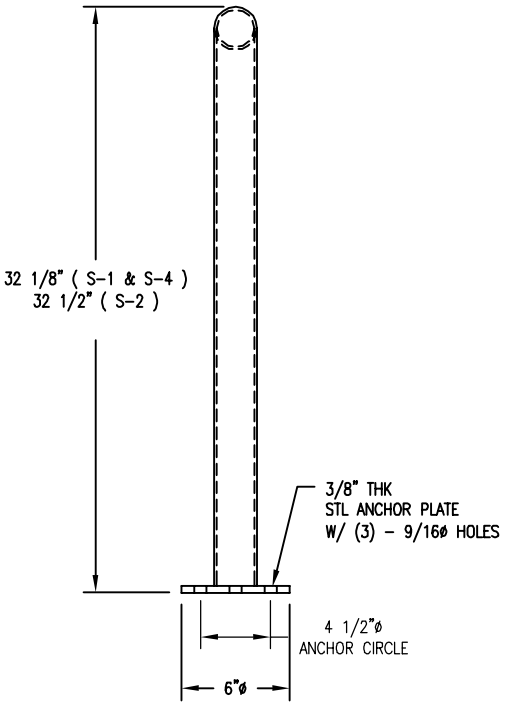
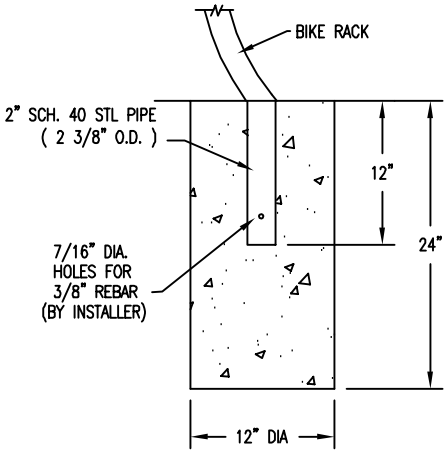
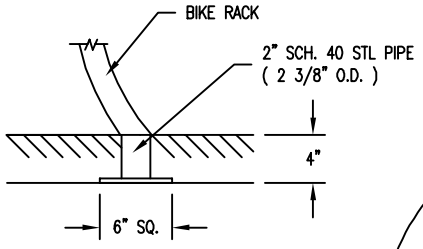




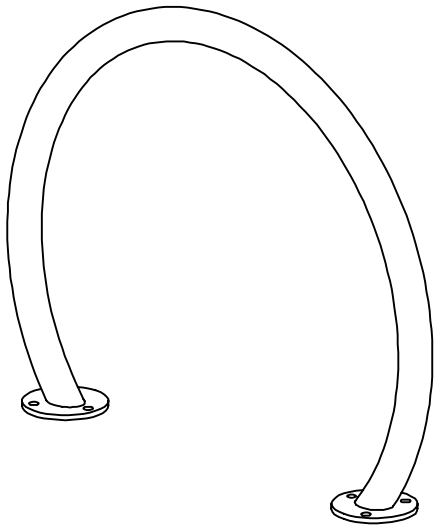
☐ S-2 SURFACE MOUNT



☐ S-1 EMBEDMENT



☐ S-4 SUB FLOOR



NOTE:

1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.

2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR OPTIONS S-2 & S-4.

DuMor, inc.	BIKE RACK	DATE DRAWN : 01/21/15 DRAWN BY : RDH DATE REV. : REV. BY :	REV. A	DRAWING NUMBER 292 SERIES	SHEET 1 OF 2

NOTES:

1.) MOUNT AND ANCHOR AS SPECIFIED.

TOOLS REQ'D

3/4" WRENCH
1/2" MASONRY DRILL BIT
DRILL

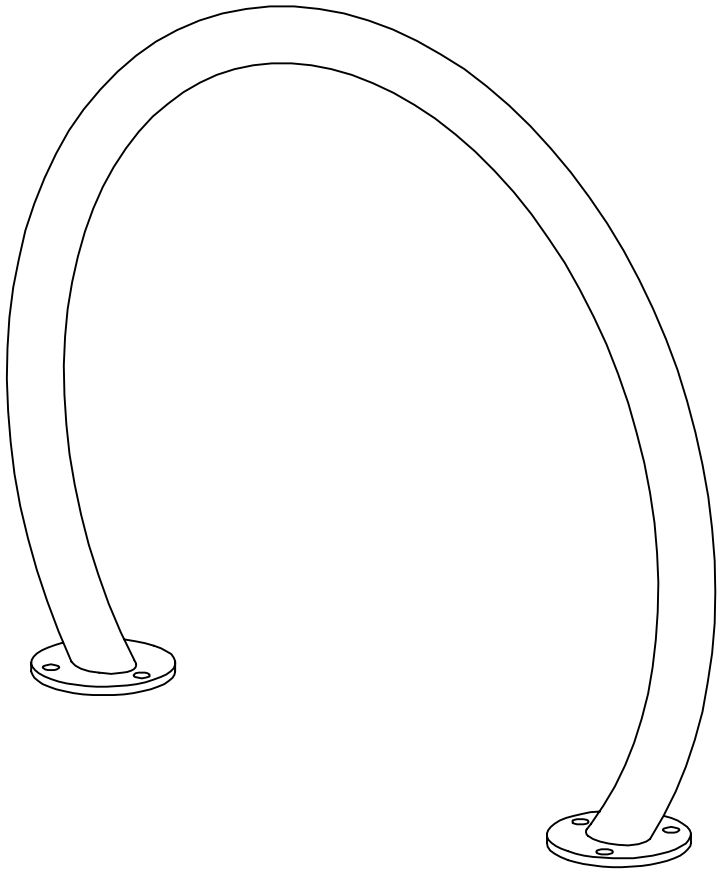
PARTS LIST FOR S-2

ITEM	QTY	PART NO	DESCRIPTION
1	1	0-292-00-01/S-2	36" I.D. BIKE LOOP FOR SURFACE MOUNT

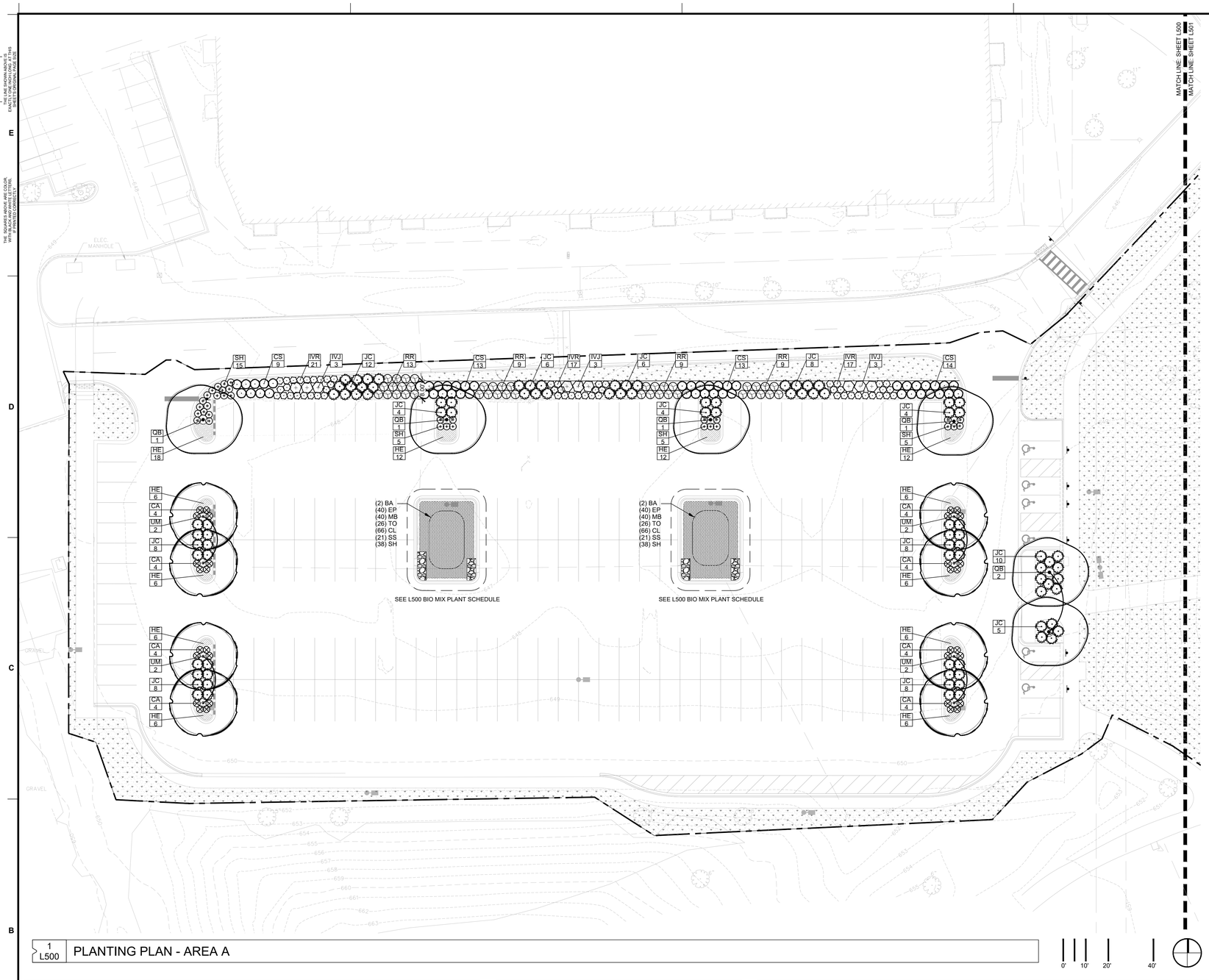
KITS PROVIDED FOR S-2

ITEM	QTY	PART NO	DESCRIPTION
2	2	K-ANC0860-3	1/2" X 3 3/4" SS ANCHOR KIT (3PCS)

(1)



DuMor, inc.	ASSEMBLY INSTRUCTIONS	DATE DRAWN : 01/21/15 DRAWN BY : RDH DATE REV. : REV. BY :	REV. A	DRAWING NUMBER 292 SERIES	SHEET 2 OF 2



1 L500 PLANTING PLAN - AREA A

PLANTING GENERAL NOTES

A. PLANT QUANTITIES IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND ARE NOT GUARANTEED. QUANTITIES ON PLAN WILL PREVAIL IF DISCREPANCIES OCCUR.

B. THE CONTRACTOR SHALL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS WITHIN 21 DAYS FOLLOWING THE AWARD OF CONTRACT. TIMELY PROCUREMENT OF ALL PLANT MATERIAL IS ESSENTIAL TO THE SUCCESSFUL COMPLETION AND ACCEPTANCE OF THE PROJECT.

C. SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.

D. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1), MOST RECENT EDITION.

E. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT OR CHICO PROJECT MANAGERFOR APPROVAL PRIOR TO PLANTING.

F. PLANT FIVE TREES FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING THE REMAINING TREES ON SITE. DEMONSTRATION SHOULD ILLUSTRATE A COMPREHENSIVE UNDERSTANDING OF INFORMATION INCLUDED IN PLANTING DETAILS AND SPECIFICATIONS.

G. PROVIDE A MINIMUM OF 14 DAYS NOTICE FOR APPROVAL OF PLANT LAYOUT AND SAMPLE TREE PLANTINGS.

H. THE CONTRACTOR SHALL REPORT SUBSURFACE SOIL OR DRAINAGE PROBLEMS TO THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

I. SEED ALL AREAS WITHIN CONTRACT LIMITS, NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS, UNLESS OTHERWISE NOTED.

J. CONTRACTOR SHALL PLACE SHREDDED BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3".

K. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.

HATCH LEGEND

- MULCH, HARDWOOD
- DECORATIVE GRAVEL; RE: 5/L800
- LOW MOW SEED, PER SPEC
- BIO-MIX PLANTING
- GROUNDCOVER PLANTING
- ORNAMENTAL GRASSES

VEHICULAR USE AREA INTERNAL PLANTING

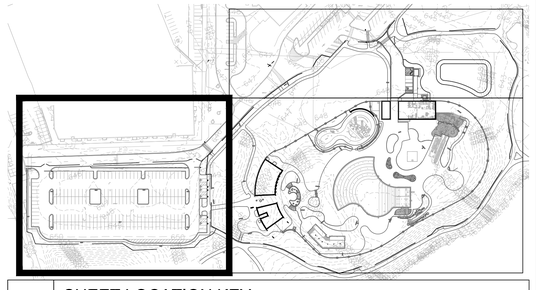
TOTAL VEHICULAR USE AREA	65,770 SF
TOTAL PARKING SPACES	192
INTERNAL PLANTING AREA REQUIRED (192 X 20)	3,840 SF
INTERNAL PLANTING AREA PROPOSED	3,842 SF
NUMBER OF INTERNAL TREES REQUIRED (192 / 15)	13
NUMBER OF INTERNAL EXISTING TREES TO REMAIN	0
NUMBER OF ADDITIONAL INTERNAL TREES TO BE PROVIDED	14

L500 BIO MIX PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	REMARKS
			PERENNIALS				
BA	4	*Baptisia alba*	WHITE WILD INDIGO	#1	CONT.	48" O.C.	
EP	80	*Echinacea purpurea*	PURPLE CONEFLOWER	#1	CONT.	18" O.C.	
MB	80	*Monarda bradburiana*	EASTERN BEEBLAM	#1	CONT.	18" O.C.	
TO	52	*Tradescantia ohiensis*	OHIO SPIDERWORT	#1	CONT.	18" O.C.	
			ORNAMENTAL GRASSES				
CL	132	*Chasmanthium latifolium*	INDIAN WOODOATS	#1	CONT.	PER PLAN	
SS	42	*Schizachyrium scparium*	LITTLE BLUESTEM	#1	CONT.	PER PLAN	
SH	76	*Sporobolus heterolepis*	PRAIRIE DROPSEED	#1	CONT.	PER PLAN	

L500 PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	REMARKS
			CANOPY TREES				
QB	6	*Quercus bicolor*	SWAMP WHITE OAK	3" CAL.	B&B	PER PLAN	SPECIMAN QUALITY
UM	8	*Ulmus* 'Morton Glossy'	TRIUMPH ELM	3" CAL.	B&B	PER PLAN	SPECIMAN QUALITY
			DECIDUOUS SHRUBS				
IVJ	9	*Ilex verticillata* 'Jim Dandy'	JIM DANDY HOLLY	#5	CONT.	PER PLAN	
IVR	54	*Ilex verticillata* 'Red Sprite'	RED SPRITE HOLLY	#5	CONT.	PER PLAN	
RR	40	*Rosa rugosa* 'Frau Dagmar Hastrup'	FRAU DAGMAR HASTRUP ROSE	#5	CONT.	PER PLAN	
			EVERGREEN SHRUBS				
CS	49	*Cornus sericea* 'Baileyi'	BAILEY RED TWIGGED DOGWOOD	#5	CONT.	PER PLAN	
JC	96	*Juniperus chinensis* 'Kallay's Compact'	KALLAY'S COMPACT PFITZER JUNIPER	#5	CONT.	PER PLAN	
			PERENNIALS				
HE	26	*Hemerocallis* 'Black Eyed Stella'	DAYLILY 'BLACK EYED STELLA'	#1	CONT.	18" O.C.	TRIANGULAR SPACING;
	26	*Hemerocallis* 'Happy Returns'	DAYLILY 'HAPPY RETURNS'	#1	CONT.	18" O.C.	ALTERNATE VARIETIES; NO
	26	*Hemerocallis* 'Strawberry Candy'	DAYLILY 'STRAWBERRY CANDY'	#1	CONT.	18" O.C.	TWO ALIKE ADJACENT
			ORNAMENTAL GRASSES				
CA	32	*Calamagrostis x acutiflora* 'Karl Foerster'	FEATHER REED GRASS	#1	CONT.	PER PLAN	
SH	17	*Sporobolus heterolepis*	PRAIRIE DROPSEED	#1	CONT.	PER PLAN	



L500 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
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CIVIL ENGINEER
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WATER TECHNOLOGY
100 Park Avenue
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CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

PLANTING PLAN

L500

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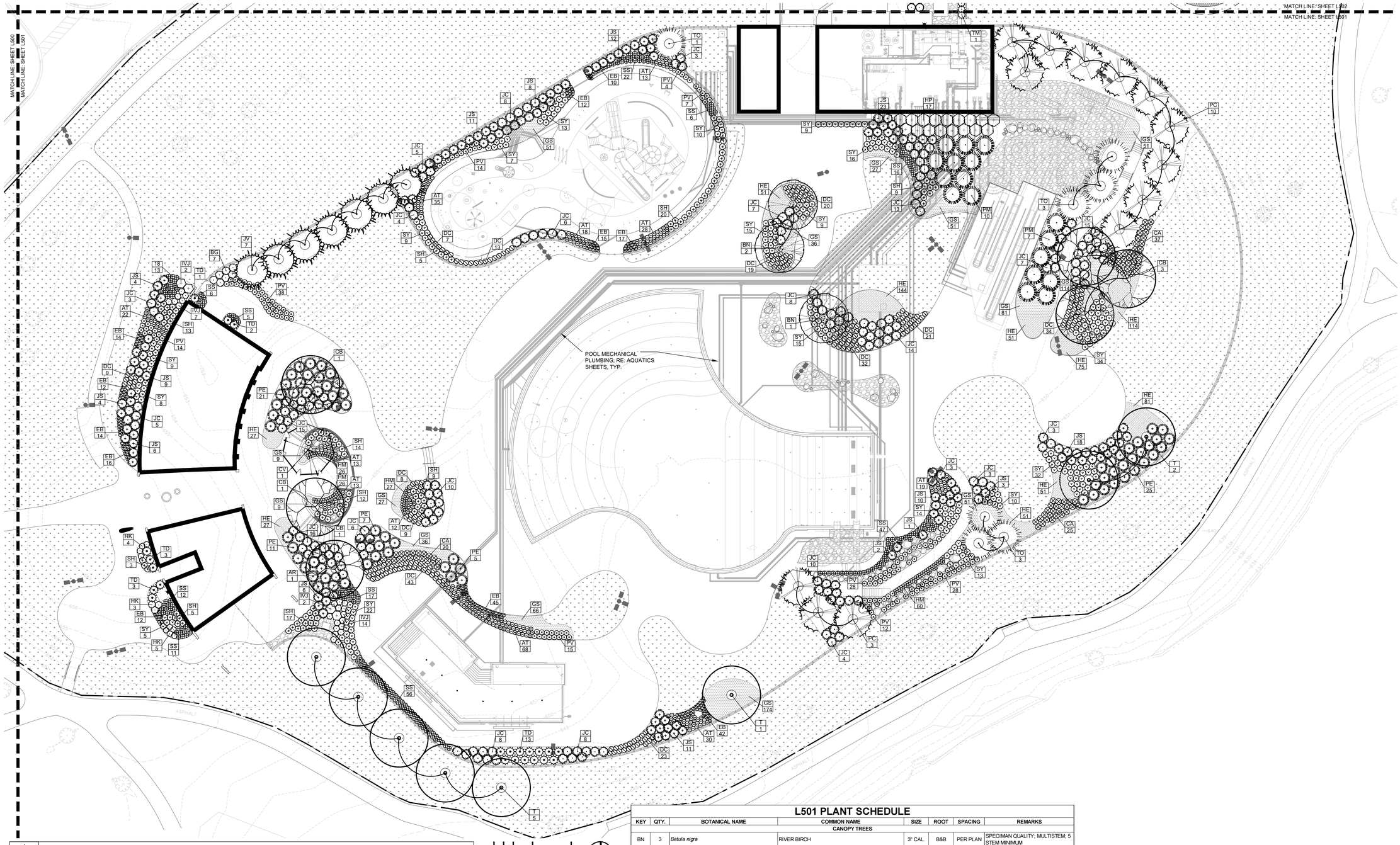
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS ORIGINAL DRAWING SIZE

THE SQUARES ABOVE ARE, COLOR, WITH BLACK AND WHITE LETTERS, ON A PLOTTED DRAWING

File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p)\03 working\10 autocad\200 sheet set manager\SHEETS\L500 Planting Plan | SAVE DATE: 3/27/2026 12:25 PM BY: amarshall | PLOT DATE: 3/27/2026 12:53 PM BY: Anaya Marshall



1 L501 PLANTING PLAN - AREA B

PLANTING GENERAL NOTES

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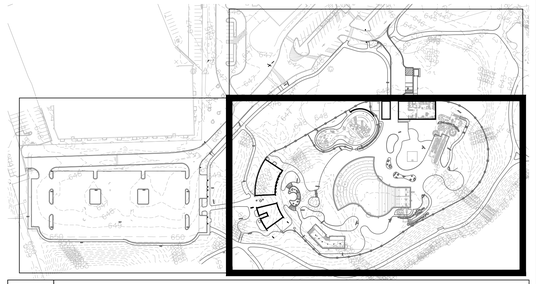
HATCH LEGEND

- MULCH, HARDWOOD
- DECORATIVE GRAVEL; RE: 5/L800
- LOW MOW SEED, PER SPEC
- BIO-MIX PLANTING
- GROUNDCOVER PLANTING
- ORNAMENTAL GRASSES

L501 PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	REMARKS
			CANOPY TREES				
BN	3	*Betula nigra*	RIVER BIRCH	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY; MULTISTEM: 5 STEM MINIMUM
CB	6	*Carpinus caroliniana*	AMERICAN HORNBEAM	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY; SINGLE STEM
CV	1	*Crataegus viridis* 'Winter King'	WINTER KING GREEN HAWTHORN	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
T	8	TRANSPLANT - SPECIED UNDITERMINED	TRANSPLANT - SPECIED UNDITERMINED	N/A	N/A	PER PLAN	N/A
			CONIFER TREES				
JV	7	*Juniperus virginiana*	EASTERN RED CEDAR	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
PC	13	*Picea pungens* 'Glauca'	COLORADO BLUE SPRUCE	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
TO	7	*Thuja occidentalis* 'Nigra'	DARK AMERICAN ARBORVITAE	3" CAL	B&B	PER PLAN	SPECIMAN QUALITY
			DECIDUOUS SHRUBS				
HP	17	*Hydrangea paniculata* 'Limelight'	LIMELIGHT HYDRANGEA	#5	CONT.	PER PLAN	
HK	12	*Hypericum kalmianum*	SUNNY BOULEVARD ST. JOHN'S WORT	#5	CONT.	PER PLAN	
IVJ	4	*Ilex verticillata* 'Jim Dandy'	JIM DANDY HOLLY	#5	CONT.	PER PLAN	
IVR	21	*Ilex verticillata* 'Red Sprite'	RED SPRITE HOLLY	#5	CONT.	PER PLAN	
			EVERGREEN SHRUBS				
BG	7	*Buxus x* 'Green Mountain'	GREEN MOUNTAIN BOXWOOD	#5	CONT.	PER PLAN	
JC	184	*Juniperus chinensis* 'Kallay's Compact'	KALLAY'S COMPACT PFITZER JUNIPER	#5	CONT.	PER PLAN	
JS	123	*Juniperus sabina* 'Buffalo'	BUFFALO JUNIPER	#5	CONT.	PER PLAN	
PE	69	*Pinus mugo* 'Enci'	ENCI MUGO PINE	#5	CONT.	PER PLAN	
PM	17	*Pinus mugo var.* 'Mugo'	MUGO PINE	#5	B&B	48" O.C.	
TM	1	*Taxus x media* 'Hicksii'	HICKS YEW	#5	CONT.	PER PLAN	
TD	22	*Taxus media* 'Densiformis'	DENSE INTERMEDIATE YEW	#5	CONT.	PER PLAN	
			PERENNIALS				
AT	254	*Asclepias tuberosa* 'Gay Butterflies'	GAY BUTTERFLIES MILKWEED	#1	CONT.	18" O.C.	
EB	209	*Echinacea hybrid* 'Baleveeen'	EVOLUTION COLORIFIC CONEFLOWER	#1	CONT.	18" O.C.	
HE	224	*Hemerocallis* 'Black Eyed Stella'	DAYLILY 'BLACK EYED STELLA'	#1	CONT.	18" O.C.	TRIANGULAR SPACING; ALTERNATE VARIETIES; NO TWO ALIKE ADJACENT
	224	*Hemerocallis* 'Happy Returns'	DAYLILY 'HAPPY RETURNS'	#1	CONT.	18" O.C.	
	224	*Hemerocallis* 'Strawberry Candy'	DAYLILY 'STRAWBERRY CANDY'	#1	CONT.	18" O.C.	
HM	139	*Heuchera micrantha* 'Palace Purple'	PALACE PURPLE CORAL BELLS	#1	CONT.	18" O.C.	
SY	250	*Salvia yangi*	RUSSIAN SAGE	#1	CONT.	18" O.C.	
			ORNAMENTAL GRASSES				
CA	82	*Calamagrostis x acutiflora* 'Karl Foerster'	FEATHER REED GRASS	#1	CONT.	PER PLAN	
DC	238	*Deschampsia caespitosa* 'Goldtau'	GOLD DEW TUFTED HAIR GRASS	#1	CONT.	PER PLAN	
PV	160	*Panicum virgatum* 'Shenandoah'	SHENANDOAH SWITCH GRASS	#1	CONT.	PER PLAN	
SS	216	*Schizachyrium scoparium* 'The Blues'	THE BLUES LITTLE BLUESTEM	#1	CONT.	PER PLAN	
SH	107	*Sporobolus heterolepis*	PRAIRIE DROPSEED	#1	CONT.	PER PLAN	
			GROUNDCOVERS				
GS	783	*Geranium sanguineum var.* STRIATUM	PROSTRATE BLOODY CRANESBILL	#1	CONT.	18" O.C.	



L501 SHEET LOCATION KEY

CONFLUENCE

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No.	Date	Description
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2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

PLANTING PLAN

L501

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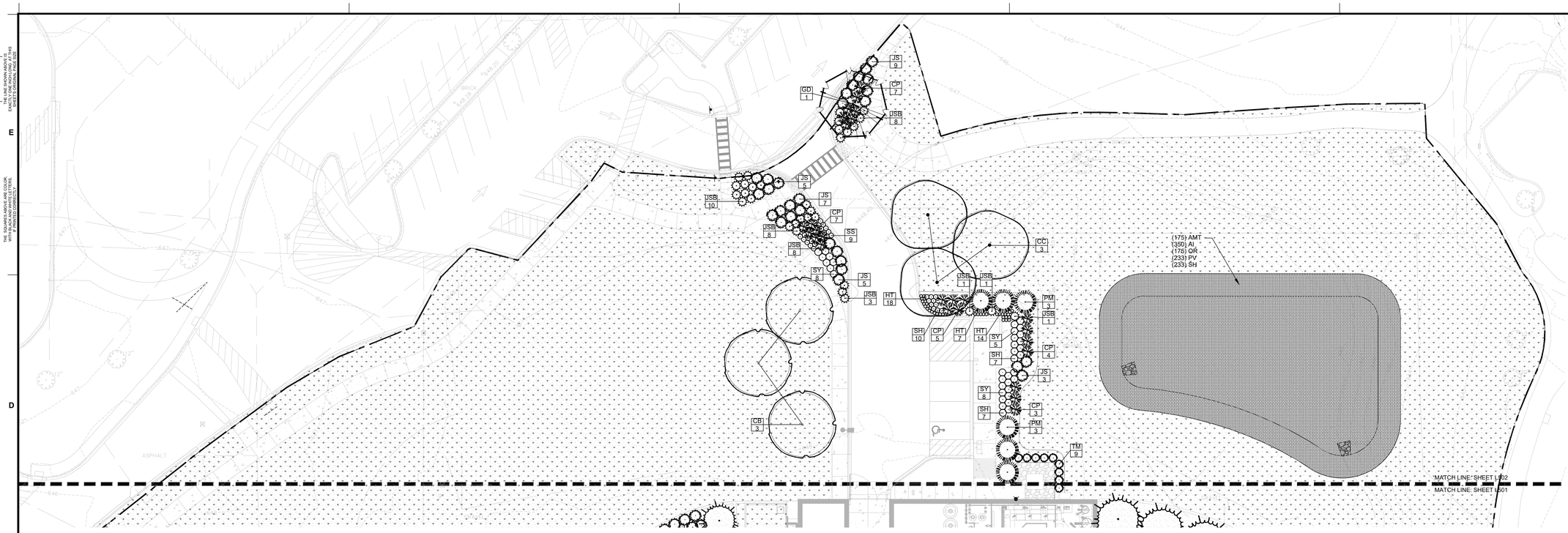
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SCALE

THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS.

File Location: T:\Projects\2025\25070_wheeling family aquatics (village of wheeling, p)\03 working\10 autocad\200 sheet set manager\SHEETS\L500 Planting Plan (SAVE DATE: 3/27/2026 12:25 PM BY: amarshall) PLOT DATE: 3/27/2026 12:25 PM BY: Anaya Marshall



1 L502 PLANTING PLAN - AREA C

0' 10' 20' 40'

HATCH LEGEND

- MULCH, HARDWOOD
- DECORATIVE GRAVEL; RE: 5/L800
- LOW MOW SEED, PER SPEC
- BIO-MIX PLANTING
- GROUNDCOVER PLANTING

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K. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.

PLANT SCHEDULE "Estimated quantities for reference only"

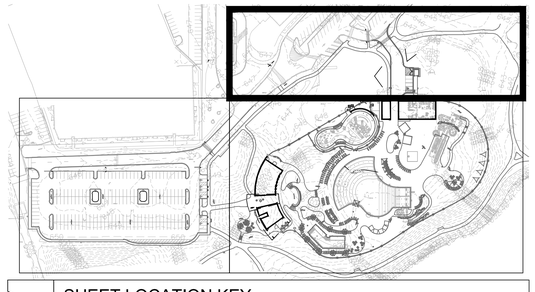
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/REMARKS
CANOPY TREES						
AR	6	Acer rubrum 'October Glory'	OCTOBER GLORY MAPLE	3" CAL	B&B	SPACING PER PLAN
BN	6	Betula nigra	RIVER BIRCH	3" CAL	B&B	SPACING PER PLAN
CB	4	Cercis canadensis 'Northern Strain	EASTERN REDBUD	3" CAL	B&B	SPACING PER PLAN
CC	3	Carpinus caroliniana 'Native Flame'	AMERICAN HORNBEAM 'NATIVE FLAME'	3" CAL	B&B	SPACING PER PLAN
T	8	TRANSPLANT - SPECIES UNDETERMINED	TRANSPLANT - SPECIES UNDETERMINED	NA	NA	SPACING PER PLAN
CONIFER TREES						
JV	10	Juniperus virginiana	EASTERN RED CEDAR	6'	CONT.	SPACING PER PLAN
PC	13	Picea pungens	BLUE SPRUCE	6'	CONT.	SPACING PER PLAN
TO	6	Thuja occidentalis	NORTHERN WHITE CEDAR	6'	CONT.	SPACING PER PLAN
DECIDUOUS SHRUBS						
HP	5	Hydrangea paniculata 'Ruby'	ANGEL'S BLUSH HYDRANGEA	#5	CONT.	SPACING PER PLAN
IV	8	Ilex verticillata	WINTERBERRY HOLLY	#2	CONT.	SPACING PER PLAN
SA	33	Sphaeralcea ambigua 'Orange Crush'	ORANGE CRUSH DESERT GLOBEMALLOW	#2	CONT.	SPACING PER PLAN
EVERGREEN SHRUBS						
BG	7	Buxus x 'Green Mountain'	GREEN MOUNTAIN BOXWOOD	#5	CONT.	SPACING PER PLAN
CP	29	Chamaecyparis pisifera 'Vintage Gold'	VINTAGE GOLD FALSE CYPRESS	#5	CONT.	SPACING PER PLAN
TM	9	Taxus x media 'Hicksii'	HICKS YEW	#5	CONT.	SPACING PER PLAN
JS	135	Juniperus sabina 'Buffalo'	BUFFALO JUNIPER	#5	CONT.	SPACING PER PLAN
JSB	171	Juniperus squamata 'Blue Star'	BLUE STAR JUNIPER	#5	CONT.	SPACING PER PLAN
PM	48	Pinus mugo	MUGO PINE	#5	CONT.	SPACING PER PLAN
PERENNIALS						
AT	227	Asclepias tuberosa 'Gay Butterflies'	GAY BUTTERFLIES MILKWEED	#1	CONT.	SPACING PER PLAN
EB	236	Echinacea hybrid 'Balevoeen'	EVOLUTION COLORIFIC CONEFLOWER	#1	CONT.	SPACING PER PLAN
HT	122	Heuchera 'TNHEUSSDN'	SIRENS' SONG DARK NIGHT HEUCHERA	#1	CONT.	SPACING PER PLAN
SY	153	Salvia yangii	RUSSIAN SAGE	#1	CONT.	SPACING PER PLAN
ORNAMENTAL GRASSES						
MC	150	Muhlenbergia capillaris	PINK GULF MUHLY GRASS	#1	CONT.	SPACING PER PLAN
PV	233	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCH GRASS	#1	CONT.	SPACING PER PLAN
SH	230	Sporobolus heterolepis	PRAIRIE DROPSEED	#1	CONT.	SPACING PER PLAN

BIO MIX PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/REMARKS
PERENNIALS						
AMT	175	Amsonia tabernaemontana	EASTERN BLUESTAR	#1	CONT.	SPACING PER PLAN
AI	350	Asclepias incarnata	SWAMP MILKWEED	#1	CONT.	SPACING PER PLAN
OR	175	Osmunda regalis	ROYAL FERN	#1	CONT.	SPACING PER PLAN
ORNAMENTAL GRASSES						
PV	233	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCH GRASS	#1	CONT.	SPACING PER PLAN
SH	230	Sporobolus heterolepis	PRAIRIE DROPSEED	#1	CONT.	SPACING PER PLAN

BIO MIX PLANTING NOTES

A. PLANTS ARE TO BE EVENLY DISTRIBUTED AND TRIANGULAR PLANTED; RE: 3/L800.



L502 SHEET LOCATION KEY

CONFLUENCE

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Chicago, IL 60601
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www.thinkconfluence.com

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LEGAT ARCHITECTS
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312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

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NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

PLANTING PLAN

L502

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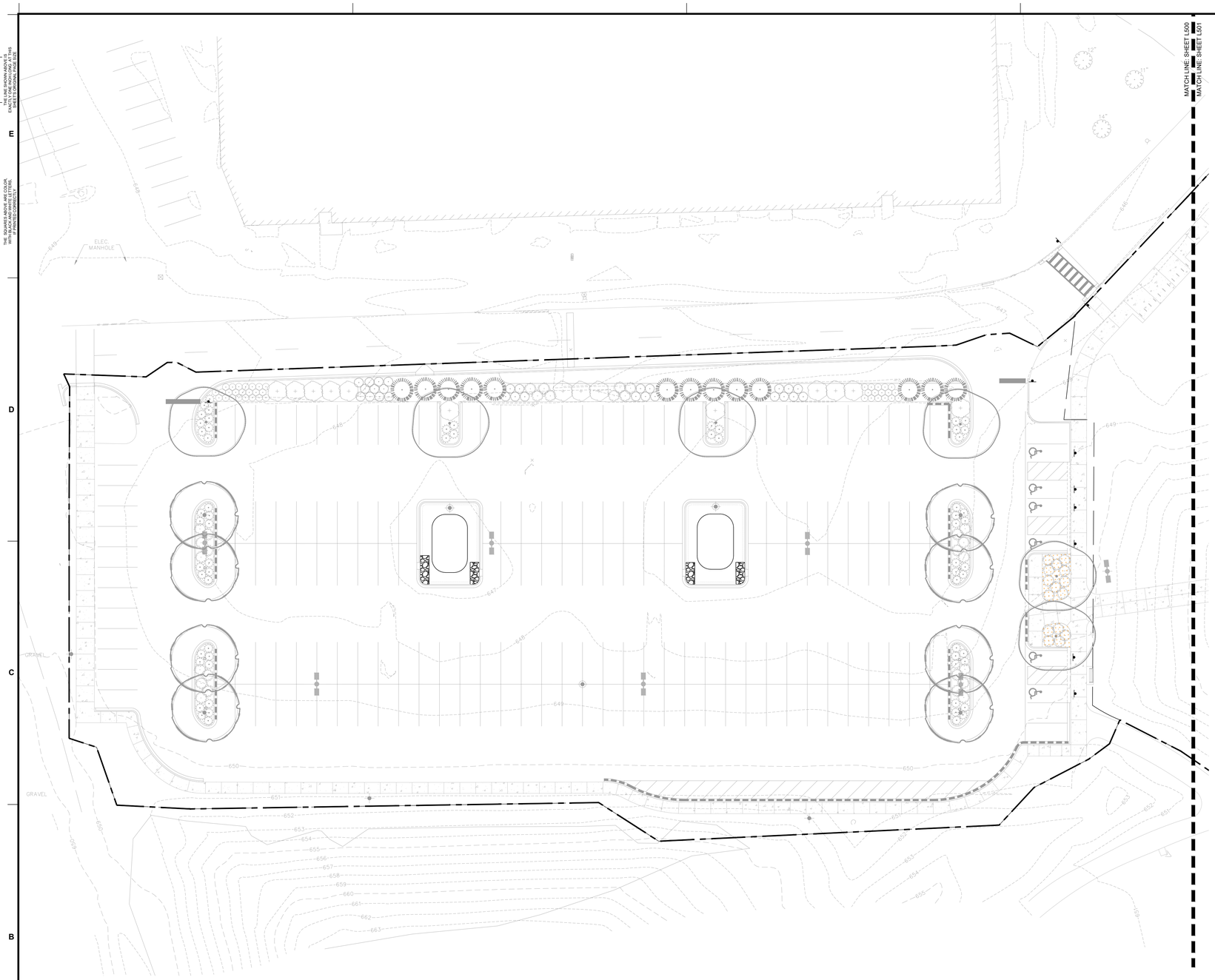


1 L510 IRRIGATION PLAN - AREA A

0' 10' 20' 40'

IRRIGATION GENERAL NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. DESIGN OF IRRIGATION IS DELEGATED TO THE CONTRACTOR THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF PLANTING IRRIGATION SPECIFICATIONS (32 84 23) PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE WITHIN THE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

D. PROVIDE AND MAINTAIN WARNING SIGNS, BARRICADES AND CONSTRUCTION FENCING AS REQUIRED BY LOCAL AUTHORITIES.

E. FLAG QUICK COUPLER LOCATIONS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

F. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION OF ALL EQUIPMENT TO PROVIDE A WORKING IRRIGATION SYSTEM FOR THE OWNER. SEE ELECTRICAL AND CIVIL SHEETS FOR WORK BY OTHERS.

G. CONTRACTOR TO VERIFY PLUMBING EQUIPMENT (BACKFLOW, ETC) USED WILL MEET DEMANDS OF IRRIGATION AS RECOMMENDED BY MANUFACTURER AND ARE WITHIN TOLERANCES OF SPECIFICATIONS. BACKFLOW DEVICES ARE TO BE INSPECTED BY A CERTIFIED TECHNICIAN WHERE REQUIRED. CONTRACTOR TO COORDINATE ALL INSPECTIONS AS REQUIRED BY CODE.

H. ALL IRRIGATION EQUIPMENT AND PIPING TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES THAT MAY APPLY.

I. ALL PRODUCT SUBSTITUTION REQUESTS ARE TO BE APPROVED BY ADDENDUM PRIOR TO BID.

J. IRRIGATION SLEEVES SHALL BE SCHEDULE 40 PVC AND INSTALLED BY THE IRRIGATION CONTRACTOR. SLEEVES SHALL BE MINIMUM 4" DIAMETER. SCHEDULE 40 PVC CONDUIT IS REQUIRED FOR CONTROL WIRE. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. WHERE REQUIRED DIRECTIONAL BORING OF PIPE SLEEVES UNDER CONCRETE SHALL BE INCLUDED AT NO ADDITIONAL COST.

K. INSTALL LATERAL LINES WITH A MINIMUM COVER OF 12" AND MAINLINES WITH A MINIMUM COVER OF 24".

L. ADJUST ALL IRRIGATION HEADS TO PROPER SPRAY DISTRIBUTION, VERIFY NOZZLE INSTALLATION IS PER PLANS.

M. AS BUILT DRAWINGS ARE INCLUDED IN THE CONSTRUCTION CONTRACT AND SHALL BE PROVIDED AND APPROVED PRIOR TO FINAL PAYMENT.

N. 2-WIRE SYSTEMS SHALL USE 14-2 CABLE WITH SOLID COPPER CONDUCTORS; INSULATED FOR DIRECT BURIAL AND COMPATIBLE WITH CONTROL SYSTEM SPECIFIED. WIRE SPLICES SHALL BE LOCATED AT VALVE BOXES. ALL CONNECTIONS SHALL BE MADE WITH 3M DBY WATERTIGHT WIRE CONNECTORS.

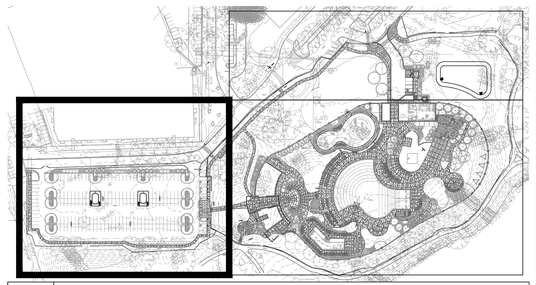
O. SET VALVES AND VALVE BOXES TO ALIGN WITH ADJACENT SITE FEATURES (SIDEWALKS, CURBS, ETC). WHERE MULTIPLE VALVE BOXES OCCUR IN A GROUP, ALIGN VALVES AND VALVE BOXES TO BE PARALLEL TO THE ADJACENT VALVE(S) IN THE GROUP.

IRRIGATION LEGEND

DRIP IRRIGATION (31,872 SF)

LOW MOW SEED ROTARY NOZZLE SPRINKLER IRRIGATION (24,784 SF)

THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.



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WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

IRRIGATION PLAN

L510

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF THIS IS NOT THE CASE, ADJUST PRINT SCALE ACCORDINGLY

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS. IF NOT, ADJUST PRINTER SETTINGS

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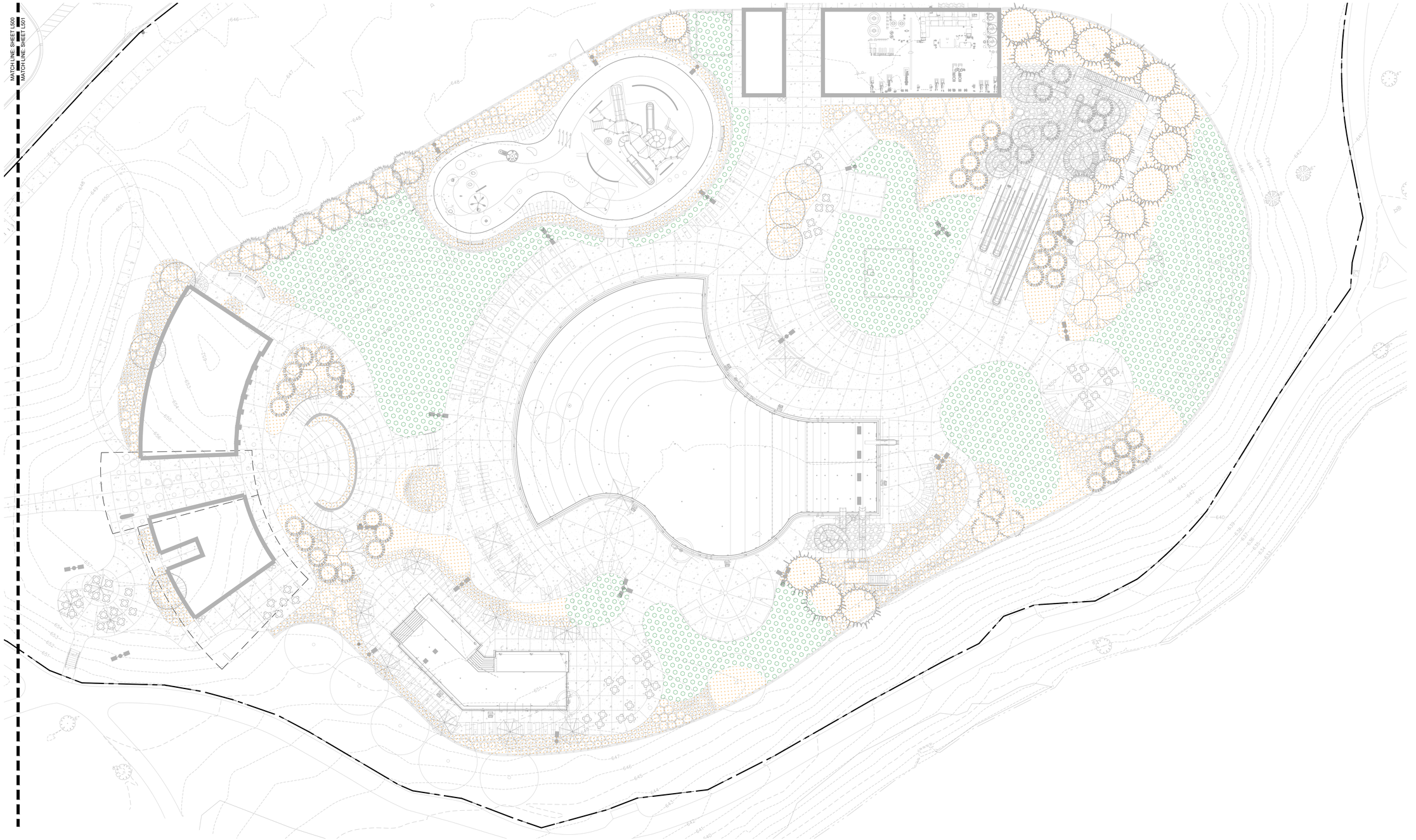
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT HAS BEEN REDUCED OR ENLARGED, ADJUST SCALES ACCORDINGLY

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REFERENCE

MATCH LINE: SHEET L500

MATCH LINE: SHEET L501



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1 L511 IRRIGATION PLAN - AREA B

0' 10' 20' 40'

IRRIGATION LEGEND

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LOW MOW SEED ROTARY NOZZLE SPRINKLER IRRIGATION (24,784 SF)

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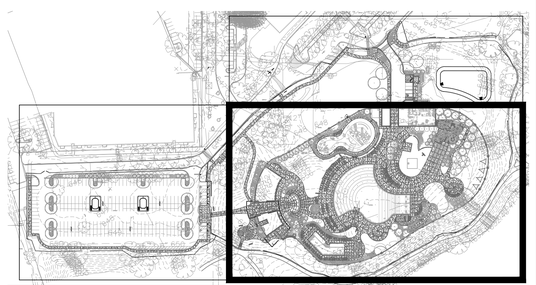

L511 SHEET LOCATION KEY

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Zion, IL 60099
847.478.9700

PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

IRRIGATION PLAN

L511

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1 L512 IRRIGATION PLAN - AREA C

0' 10' 20' 40'

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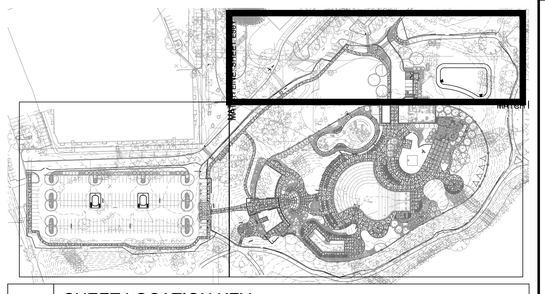

L512 SHEET LOCATION KEY

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Revision Schedule

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1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

IRRIGATION PLAN

L512

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ARCHITECTURAL SCALE WHEN PLOTTED

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY

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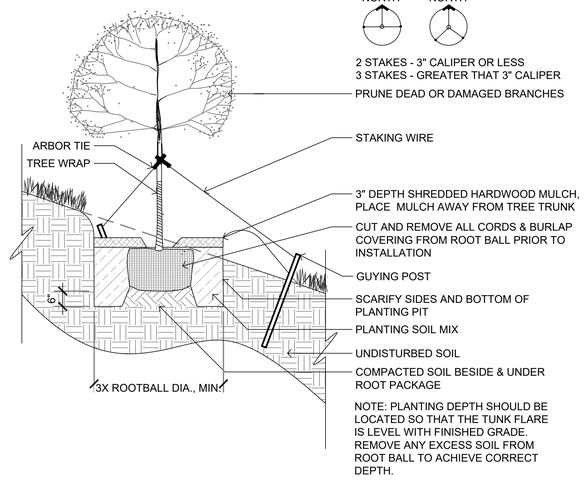
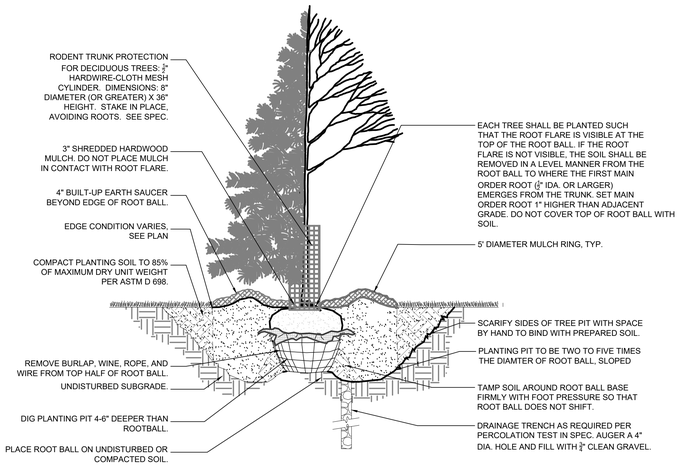
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS PLOT SCALE IS CORRECT

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN PROPER PRINTING SEQUENCE

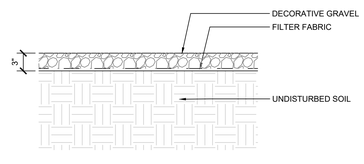
C M Y K



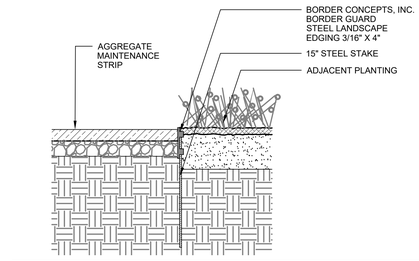
7 L800 TREE INSTALLATION ON SLOPE SCALE: 1/2" = 1'-0"



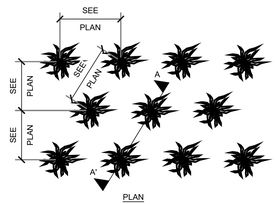
6 L800 TREE INSTALLATION SCALE: 1/2" = 1'-0"

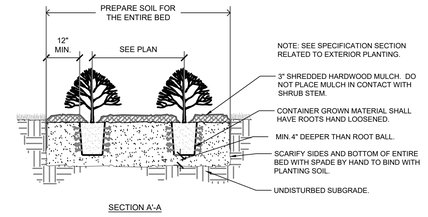


5 L800 DECORATIVE GRAVEL MULCH, TYP. SCALE: 1/2" = 1'-0"

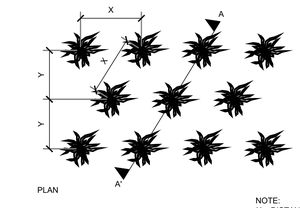


4 L800 STEEL EDGING SCALE: 3/4" = 1'-0"

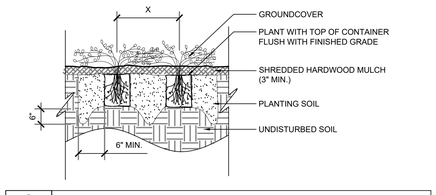




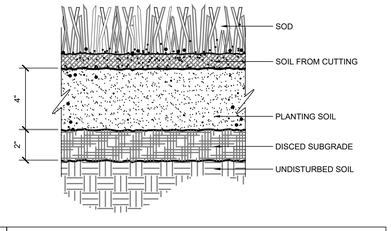
3 L800 SHRUB INSTALLATION SCALE: 1/2" = 1'-0"



NOTE:
X = DISTANCE SPECIFIED WITHIN PLANT SCHEDULE
Y = DISTANCE 'X' MULTIPLIED BY .866



2 L800 GROUNDCOVER INSTALLATION SCALE: 1/2" = 1'-0"



1 L800 SOD INSTALLATION SCALE: 3" = 1'-0"

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PLANTING DETAILS

L800

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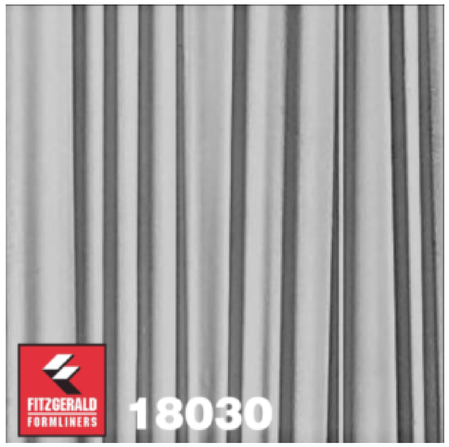


Precast Concrete Form Liner

Fitzgerald Formliners



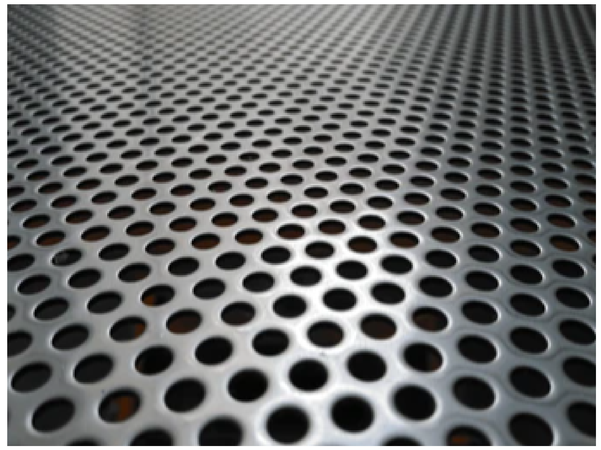
PCI Color and Texture

Final Color and Texture TBD



Simulated Wood Soffit Panels

Parklex Prodema - White American Oak



Perforated Stainless Steel Panels



Porthole Windows



Prefinished Metal Fascia

PAC-CLAD - Graphite

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

MATERIAL BOARD

A-903

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PKA-AL18NL & PUY-AK18NL
18,000 BTU/H WALL-MOUNTED INDOOR UNIT
18,000 BTU/H COOLING ONLY OUTDOOR UNIT

Job Name:

System Reference: Date:





Indoor Unit PKA-AL18NL

Outdoor Unit PUY-AK18NL

INDOOR UNIT FEATURES

- Auto fan speed mode: Automatic adjustment of fan speed
- Ideal PKA spaces: Ideal for spaces such as server rooms, daycare centers, classrooms, churches, small offices, and more
- Light commercial: Units with this icon are suitable for light commercial applications such as small offices, restaurants, and retail.
- Multiple control options, including the comfort app for remote access, third-party interfaces, and both wired and wireless controllers
- Simple installation
- Single-zone: One outdoor unit connects to one indoor unit to control the comfort in a single space.
- Sleek, compact design
- Up and down swing-mode: An indoor unit with this capability can move air up and down throughout the room like an oscillating fan using the horizontal vanes.
- Vane settings: Vane setting for air flow direction control

OUTDOOR UNIT FEATURES

- Blue Fin Coating: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- Continuous operation: 24-hour continuous operation (cooling mode)
- Fast restart
- High pressure protection
- INVERTER-driven compressor: An inverter-driven compressor generates the precise capacity needed to maintain a temperature set point.
- Low ambient cooling: Low ambient cooling down to -40°F providing 100% capacity (with wind baffles)
- Pre-charged refrigerant: 12k -30k BTU/h come pre-charged for ease of installation. 24k – 30k BTU/h are pre-charged to maximum line length of 225 feet. 12k – 18k BTU/h are pre-charged for up to 165 feet of line length. For units with a capacity of 36,000 BTU/h and above, additional refrigerant charges will be required.
- Seacoast protection: Seacoast Protection, made standard in the 2022 production, features a robust anti-corrosion system with phosphate and acrylic-enamel coated external panels, epoxy resin-coated fan motor support and separator assembly valve beds, and Blue Fin treatment for the heat exchanger coil. These components are rated for 2,000 hours of durability under ASTM B117 testing standards, ensuring longevity in corrosive coastal environments.
- Superior energy and operational efficiency

Specifications are subject to change without notice.

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SPECIFICATIONS: PKA-AL18NL & PUY-AK18NL

Cooling at 95F[1]	Maximum Capacity	Btu/h	18,000
	Rated Capacity	Btu/h	18,000
	Minimum Capacity	Btu/h	4,300
	Maximum Power Input	W	1,630
	Rated Power Input	W	1,630
	Moisture Removal	Pints/h	6.6
	Sensible Heat Factor	-	0.6
	Power Factor [208V / 230V]	%	93 / 93
Efficiency	SEER2		19.5
	EER2[1]		11
	ENERGY STAR® Certified		No
Electrical	Voltage, Phase, Frequency	V AC / V AC, , Hz	208 / 230, 1, 60
	Guaranteed Voltage Range	V AC	198 - 264
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	20
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	Fan Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	215, 255, 320, 375
	Airflow Rate at Cooling, Wet	CFM	265, 310, 375, 450
	Sound Pressure Level [Cooling]	dB (A)	34, 39, 44, 48
	External Finish Color		0.7PB 9.2/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-11/32 x 9-11/32 x 11-25/32 [898 x 237 x 299]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	38-1/4 x 13-7/16 x 14-3/16 [970 x 340 x 360]
	Unit Weight	lbs [kg]	28 [12.70]
	Package Weight	lbs [kg]	32 [14.50]
	Fan Motor Type		DC Motor
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	90, 73 / 66, 59
Outdoor Unit	MCA	A	16
	MOCP	A	27
	Fan Motor Output	W	51
	Airflow Rate Cooling	CFM	1,590
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes
	Sound Pressure Level, Cooling[1]	dB (A)	44
	Compressor Type		Twin Rotary
	Compressor Model		SRB140FQHMC□L1
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 16
	External Finish Color		Munsell No.3Y 7.8/1.1
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37-1/16 x 16-3/16 x 32-1/4 [941 x 411 x 819]
	Unit Weight	lbs [kg]	99 [45]
	Package Weight	lbs [kg]	112 [51]
ODU Operating Temp. Range	Cooling Intake Maximum Air Temp [Maximum / Minimum*]	°FDB	115 / 23
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs, oz	4, 6
	Maximum Pre-Charged Piping Length	ft [m]	165 [50]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.7]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	165 [50]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

NOTES
[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Cooling-only system with advanced wind baffle: -40°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):

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INDOOR UNIT ACCESSORIES: PKA-AL18NL

Wired Remote Controller	Deluxe Wired MA Remote Controller [1]	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller [1]	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller [1]	PAR-CT01MAU-SB
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
	Universal Wireless MA Handheld Remote Controller	PAR-FL32MA-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
Lineset	100 x 1/4 x 100 1/2 Lineset Twin-Tube Insulation	MLS141212T-100
	15 x 1/4 x 15 1/2 Lineset Twin-Tube Insulation	MLS141212T-15
	30 x 1/4 x 30 1/2 Lineset Twin-Tube Insulation	MLS141212T-30
	50 x 1/4 x 50 1/2 Lineset Twin-Tube Insulation	MLS141212T-50
	65 x 1/4 x 65 1/2 Lineset Twin-Tube Insulation	MLS141212T-65
Control Interface	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	Procon BACnet and Modbus Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Wireless Interface Adapter for the Comfort app	PAC-USWHS002-WF-2
Condensate	Blue Diamond (Slim Fascia Kit) Condensate Pump w/ Reservoir & Sensor	X86-011
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X85-003
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Drain Pan Level SensorControl	SS610E
	Refco Condensate Pump 100-240 VAC	GOBI-II
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Sauermann Condensate Pump	SI30-230
Power Supplies & Auxiliary Components	3-Pin Wiring Harness	PAC-715AD
	5-Pin Wiring Harness	PAC-725AD
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Remote Sensor	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	PAC-USSEN002-FM-1
	Wall Mount Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humidity sensor for the Comfort app	PAC-USWHS003-TH-1
Power Supplies and Auxiliary Components	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
NOTES		

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OUTDOOR UNIT ACCESSORIES: PUY-AK18NL

Stand	18 Single Fan Stand	QSMS1801M
	24 Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1201M
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
Wind Baffle	Front Wind Baffle	WB-PA4
	Rear Wind Baffle	WB-RE4
	Side Advanced Wind Baffle	WB-SD4
Power Supplies & Auxiliary Components	3-Pin Wiring Harness	PAC-715AD
	5-Pin Wiring Harness	PAC-725AD
Hail Guards	Hail Guard	HG-A5
Drain Socket	Drain Socket	MAC-871DS
Snow/Rain Diverter	SnowRain Diverter	SRD-2
Control/Service Tool	ControlService Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Air Outlet Guide	Air Outlet Guide	PAC-SJ07SG-E
M-NET Converter	M-Net Interface for P-Series	PAC-SJ96MA-E
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
NOTES		

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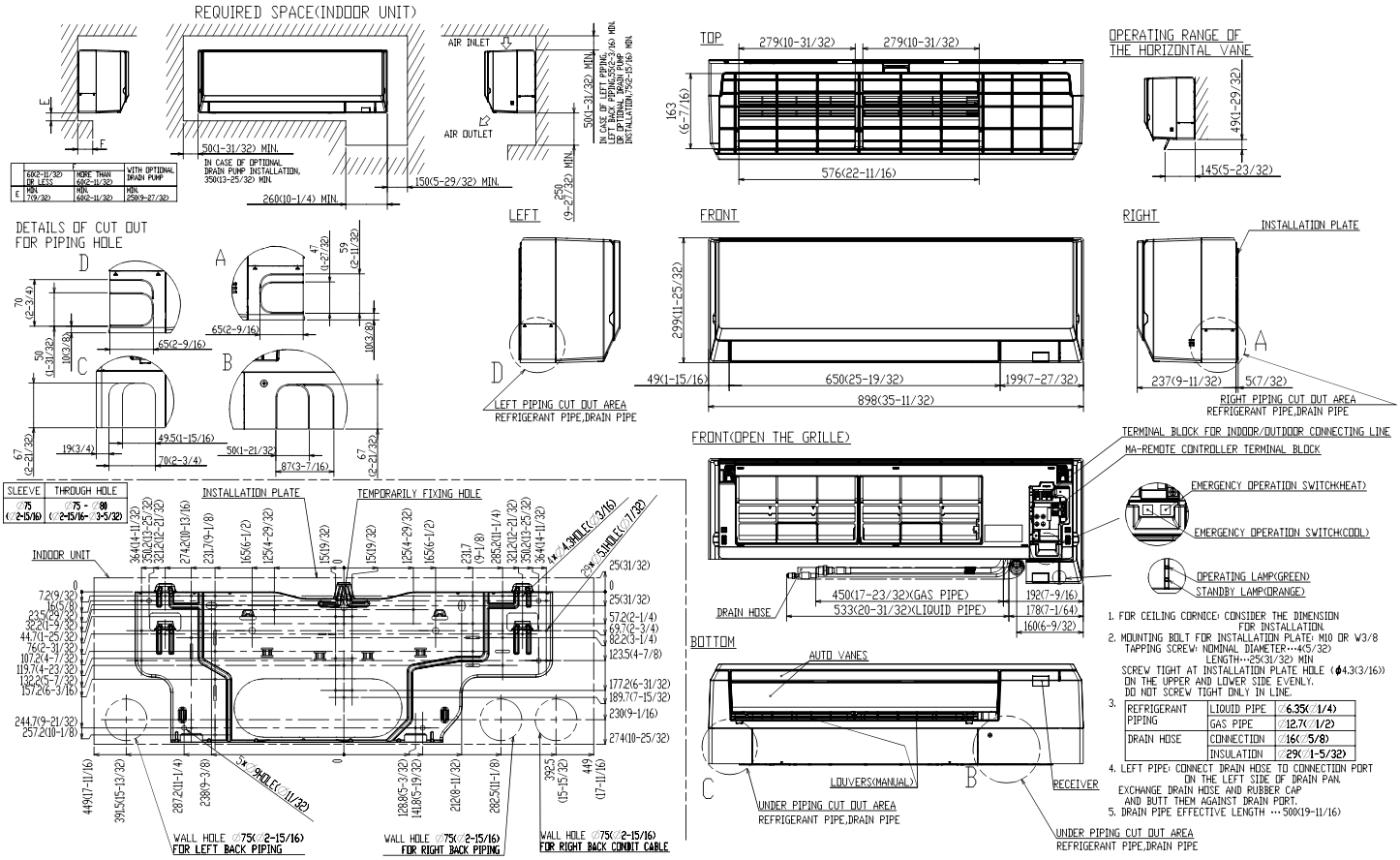
INDOOR UNIT DIMENSIONS: PKA-AL18NL



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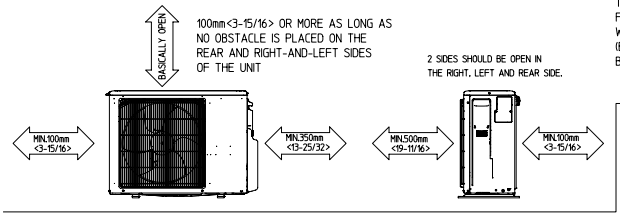
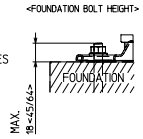
OUTDOOR UNIT DIMENSIONS: PUY-AK18NL

FREE SPACE AROUND THE OUTDOOR UNIT (BASIC EXAMPLE)



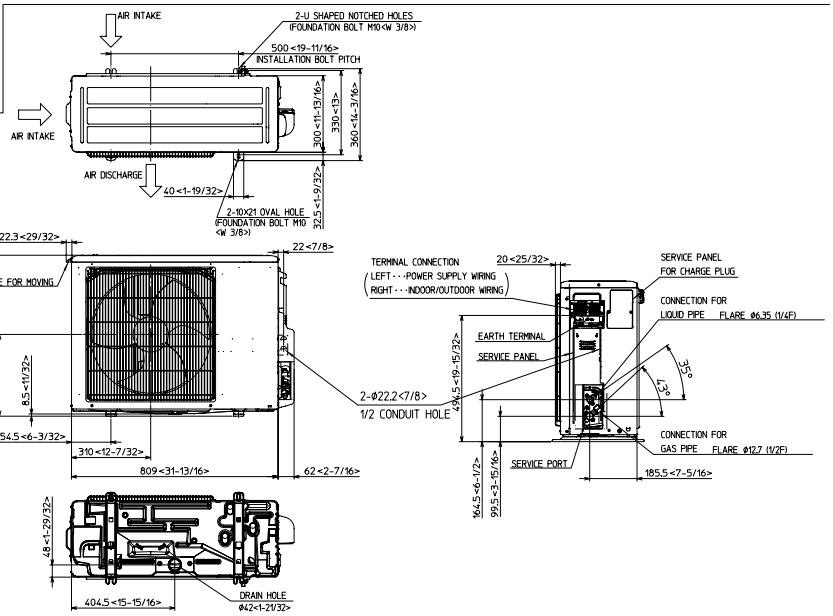
FOUNDATION BOLTS

PLEASE SECURE THE BASE OF THE UNIT FIRMLY USING M10<W3/8> FOUNDATION BOLTS AT FOUR PLACES WITH A NUT.
(BOLTS, WASHERS AND NUT MUST BE PURCHASED LOCALLY).



PIPING-WIRING DIRECTION

PIPING AND WIRING CONNECTION CAN BE MADE FROM THE REAR DIRECTION ONLY.



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 https://mitsubishicomfort.com

METUS_2025-02_PROPIN

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6 - 25 Ton Unitary Split Systems Outdoor

Unit Overview

Model	TTA120K3DAA**BS0100010000000000000000000
Construction	New Construction
Unit Tonnage	10 Ton
Controls	Symbio (Cooling)
Communication Option	Advanced Controller - BACnet BAS (TTA)
Voltage	208-230/60/3
Refrigeration Circuit / Stage	Dual Compressors / Dual Circuit
Refrigerant	R-454B Refrigerant
Unit Function	Cooling
Max. Cond. Operating Weight	403.4 lb



Electrical Information

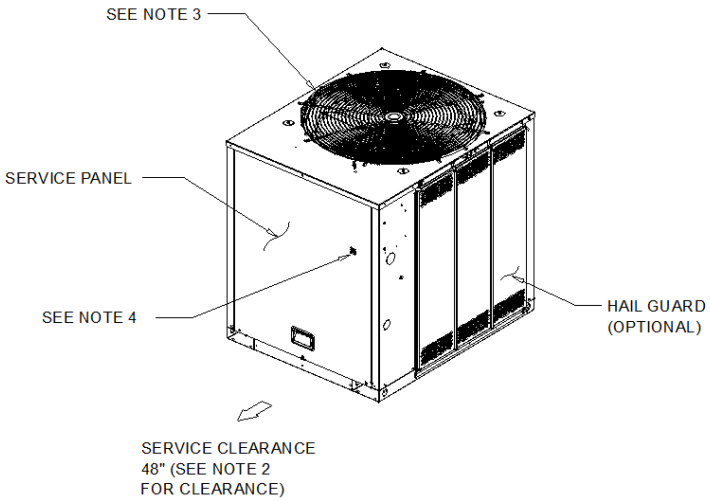
MCA	42.00 A	**Compressor 1 RLA**	16.10 A	**Cond. Motor 1 FLA**	4.30 A
MOP	50.00 A	**Compressor 2 RLA**	16.10 A	**Cond. Motor 2 FLA**	0.00 A

Refrigerant Information

Refrigerant	R-454B Refrigerant
Suction Line Connection Size	1.125 in
Liquid Line Connection Size	0.500 in

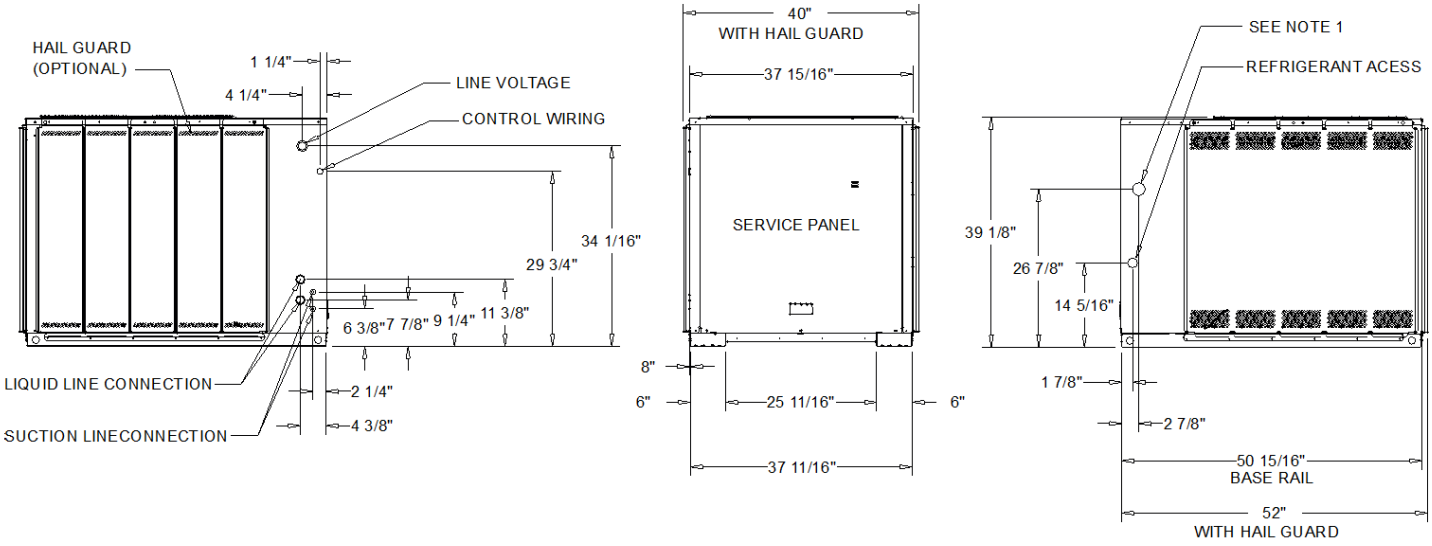
New Section

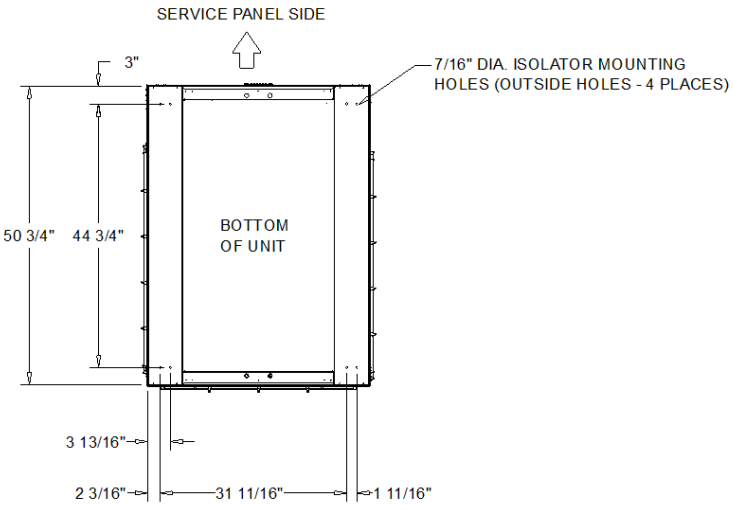
Approx Installed Weight	Corner weight A	Corner Weight B	Corner Weight C	Corner Weight D
403.4 lb	117.0 lb	116.0 lb	87.0 lb	85.0 lb



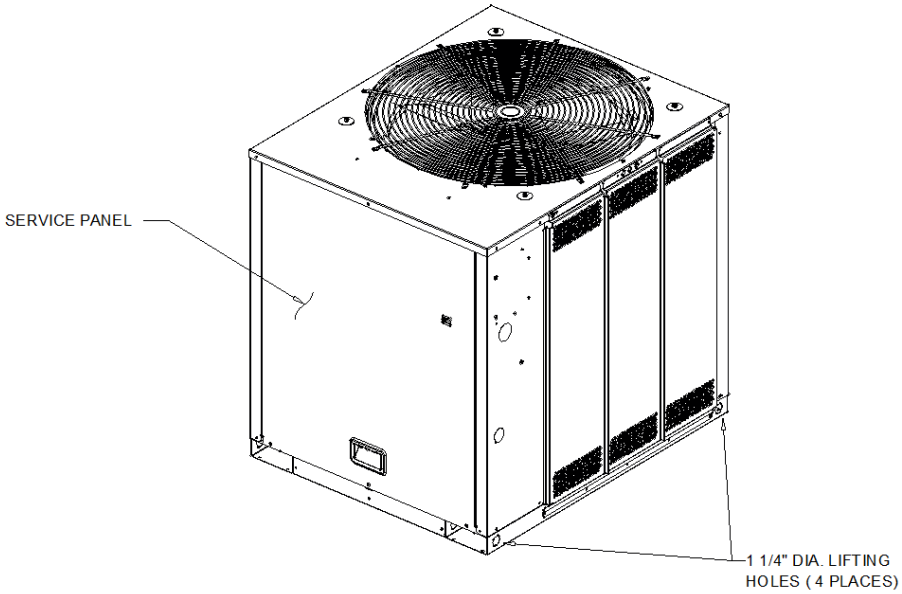
NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72". RECOMMENDED SERVICE CLEARANCE 48"
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING).

REFRIGERANT
1. SUCTION CONNECTION 1 1/8"OD) AND LIQUID CONNECTION (1/2" OD)



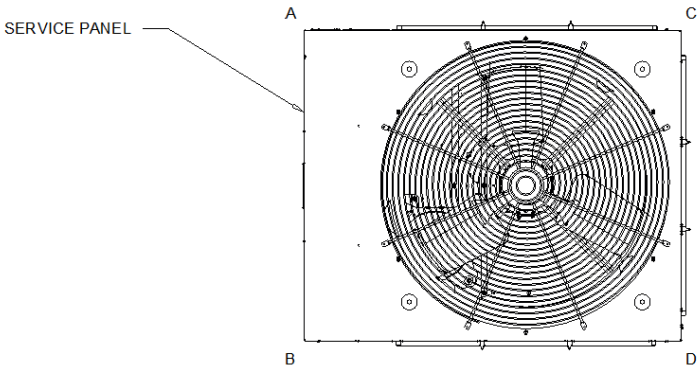


10 TON COOLING CONDENSER (DUAL COMPRESSOR)
DIMENSIONAL DRAWING



WEIGHTS AND CORNER WEIGHTS

Unit Weights	
Approx Installed Weight	403.4 lb
Corner Weights	
Corner weight A:	117.0 lb
Corner Weight B:	116.0 lb
Corner Weight C:	87.0 lb
Corner Weight D:	85.0 lb



WEIGHTS AND LOAD POINT LOCATION

WEIGHT AND RIGGING



ENVISOR®

ROOF SCREENS WITH SOARING GOOD LOOKS

Set the bar high with durable and attractive Envisor® roof screens. Affordable and elegant, Envisor makes meeting code simple and blends into any design. Better yet: no rooftop penetration is required for installation, which gives you a clean, modern look.

- Practical solution for municipal screening requirements of HVAC units, chillers, air handlers, and more
- Create your own custom design for your specific application
- Nationwide project management and installation available
- Designed in-house and manufactured in a state-of-the-art facility

ZERO ROOFTOP PENETRATION

WIND LOAD / WIND RESISTANCE

MADE IN USA

Screens secure directly to the equipment

Ultimate wind speed resistance up to 115mph

Design • Manufacturing • Installation



OUR PATENTED DESIGN

Envisor® screens feature our patented attachment method, so they can secure directly to the equipment—no rooftop penetration required. Post-mounted options are also available.

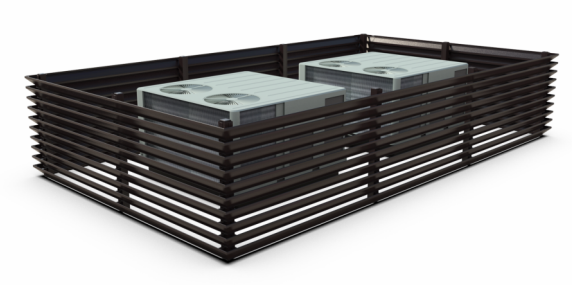
This is the perfect alternative to parapet walls and will satisfy even the strictest of screening code requirements. Screens can be stacked up to three panels high, which means you can shield just about anything.



UNIT ATTACHED



POST MOUNTED



Z-FIN POST MOUNTED

PAIR ENVISOR WITH THESE BRANDS





INTRODUCING - Z-FIN

Meet the Z-Fin Envisor® system—our latest innovation in rooftop screening. This upgraded system brings modern aesthetics, code-compliant screening, added airflow, and extreme durability into one elegant solution.

- Engineered for wind and weather
- 54% Open airflow
- Post mounting required

- Durable powder coat finish

Get a Quote

AVAILABLE IN 2 MATERIALS

METAL SERIES PANELS

Available in a variety of all-aluminum panels with unmatched ultimate wind speed of 115mph. Our proprietary design captures the panels in the frame, meeting or exceeding code requirements in areas with high wind requirements. Choose from a wide range of custom finishing options including digital printing and our proprietary 6-stage powder coated process that will fit your project.

METAL SERIES PANEL SPECS

- Frames are 6063 T6 extruded aluminum
- Frame infill material thickness varies depending on infill choice
- Sherwin Williams 4000 Series Powder-Coated Components

WIND LOAD / WIND RESISTANCE

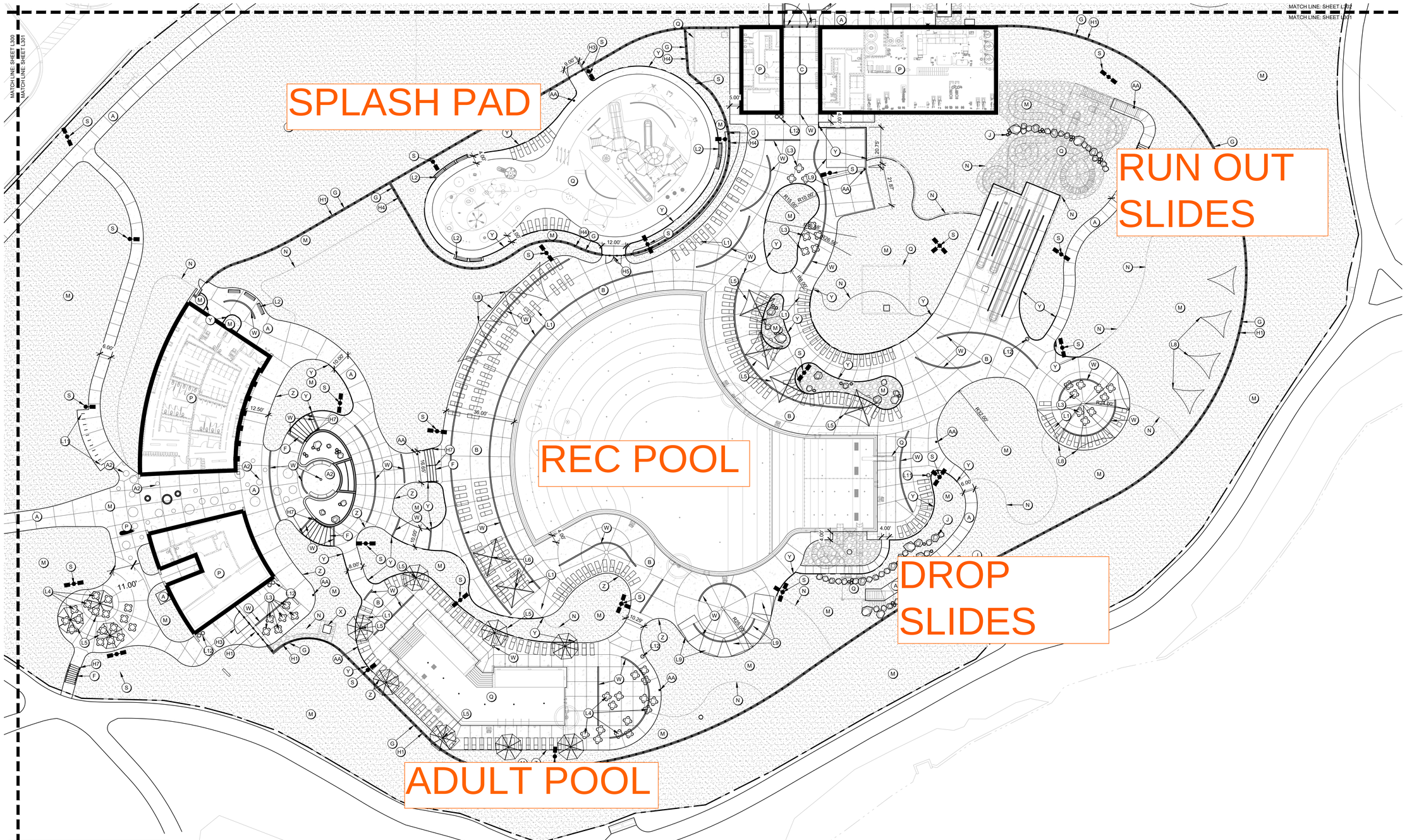
- Our products have an ultimate wind speed ranging between 115mph - 180mph, surpassing municipal code compliance regulations.
- Added reinforcements are utilized to achieve Miami Dade County requirements.
- PE Stamped drawings are available on all North American projects.

MOLD RESISTANCE

- Our products are resistant to mold and mildew growth.
- Industry-standard testing method ASTM D5590/ASTM G21 measured a zero fungal growth value.

GET A QUOTE (/GET-A-QUOTE?HSLANG=EN)

METAL INFILL OPTIONS	TOP TRIM OPTIONS	COLOR OPTIONS



KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
Z) LANDSCAPE BED EDGE TYPE 2; RE: 14/L701
AA) YARD HYDRANT; RE: 15/L701

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

1 L301 HARDSCAPE PLAN - AREA B

0' 10' 20' 40'

RAILING, FENCE, AND GATES; SCHEDULE A

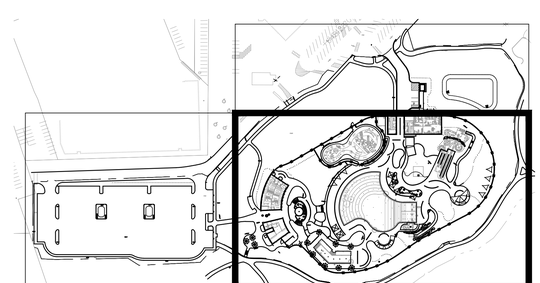
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ, SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L301 SHEET LOCATION KEY

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GEWALT HAMILTON ASSOCIATES
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AQUATICS DESIGNER
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CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L301

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File Location: T:\Projects\25025\25070_wheeling family aquatic (village of wheeling, p90)\ working\10 autocad\200 sheet set manager\SHEETS\L300 Hardscape Plan | SAVE DATE: 3/27/2026 12:48 PM BY: mmiller | PLOT DATE: 3/27/2026 12:53 PM BY: Anaya Marshall

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

(1) — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
1 **VIEW NAME** 1/8" = 1'-0"
NORTH
PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS — SIM
1 — DETAIL REFERRED TO BY SECTION CUT — 1 2 3 4
M101 — SHEET DETAIL IS LOCATED ON — T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE ELECTRICAL CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

ELECTRICAL CODE:	IDPH: NFPA 70 (NEC) 2008 EDITION VILLAGE OF WHEELING: NFPA 70 (NEC) 2017 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
ILLINOIS ACCESSIBILITY CODE:	ADA 2018

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
INV-#	LIGHTING INVERTER	26 52 00
SPD-#	SURGE PROTECTION DEVICE	26 43 00

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
F.P.C	FIRE PROTECTION CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
EGC	EQUIPMENT GROUNDING CONDUCTOR
EPO	EMERGENCY POWER OFF
NEMA #	NEMA RATING
NO	NORMALLY OPEN
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

ELECTRICAL SYMBOL LIST - RECEPTACLES

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
#		REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	X	REC-DUP-XP	26 27 26	DUPLEX RECEPTACLE, EXPLOSION PROOF, 125V
	W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE, 125V - NEMA 3R WHILE IN-USE COVER
		REC-DUP-GFI	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, GROUND FAULT CIRCUIT INTERRUPTER, 125V
#		REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
#	630	REC-SIM-630R	26 27 26	RECEPTACLE, 6-30R, 250V

ELECTRICAL SYMBOL LIST - POWER

SYMBOL	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
E	ECONN	26 05 33	ELECTRICAL CONNECTION - CEILING/SURFACE
E	ECONN	26 05 33	ELECTRICAL CONNECTION - WALL
J	JB	26 05 33	JUNCTION BOX - WALL
	ES	26 09 16	EMERGENCY STOP, N.C. CONTACT
	PANEL-'##'	26 24 16	PANELBOARD - SURFACE MOUNT
	DP-#	26 24 16	DISTRIBUTION PANEL
	MX-#	26 24 19	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
	TR-#	26 22 00	DRY TRANSFORMER(S),REFER TO TRANSFORMER SCHEDULE
	ATS-#	26 36 00	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE
	DS-#	26 28 16	DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE
	VFD-#	26 29 23	VARIABLE FREQUENCY DRIVE, REFER TO VFD SCHEDULE
HH	HH-#	26 05 31	HAND HOLE

EQUIPMENT ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	AUTOMATIC DOOR OPERATOR WITH SENSOR
COF	COFFEE
COPY	COPIER
DOOR	DOOR OPERATOR, ELECTRIC
EWC	ELECTRIC WATER COOLER
HD	HAND DRYER
MW	MICROWAVE
REF	REFRIGERATOR
TV	TELEVISION - MONITOR - DISPLAY
UCF	UNDERCOUNTER FREEZER
VEND	VENDING MACHINE

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:

DEVICE — # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:
- A — MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- C — MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
- L — MOUNT IN CASEWORK
- +#" — MOUNT AT #" TO CENTERLINE ABOVE FINISHED FLOOR

TECHNOLOGY ROUGH-IN SYMBOL LIST AND REQUIREMENTS

\# DATA
BOX: 4" x 4" x 2-1/8" WITH SINGLE GANG RING.
CONDUIT: 1" CONDUIT STUBBED TO BUILDING'S IT ROOM.
MOUNTING: 18" AFF, UNLESS NOTED OTHERWISE ON PLANS.

D - ROUGH-IN FOR DATA, CONFIRM FINAL LOCATION WITH OWNER.
CAM - ROUGH-IN FOR CAMERA, CONFIRM FINAL LOCATION WITH OWNER.
WAP - ROUGH-IN FOR WIRELESS ACCESS POINT, CONFIRM FINAL LOCATION WITH OWNER.

\# CEILING MOUNTED DATA
BOX: 4" x 4" x 2-1/8" WITH SINGLE GANG RING.

D-CAM - ROUGH-IN FOR CAMERA, CONFIRM FINAL LOCATION WITH OWNER.
CONDUIT: 1" CONDUIT STUBBED TO BUILDING'S IT ROOM.

D-SPK - ROUGH-IN FOR SPEAKER, CONFIRM FINAL LOCATION WITH OWNER.
CONDUIT: 1" CONDUIT STUBBED TO BUILDING'S SPEAKER HEADEND RACK.

CR — CARD READER ROUGH-IN. ROUTE (2) 1" C. FROM CARD READER ROUGH-IN AND ELECTRIC STRIKE AND STUB NEXT TO IT CABINET.

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 (LATEST PUBLISHED) ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
6. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
7. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
8. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
9. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS,CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.
10. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
11. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
13. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
14. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
15. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX

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E-001	ELECTRICAL COVERSHEET
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E-003	ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES
E-004	ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES - PHOTOMETRIC
E-005	ELECTRICAL SITE PLAN - PHOTOMETRICS
E-006	ELECTRICAL SITE LIGHTING - CUT SHEETS
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E-101B	FIRST FLOOR PLAN - LIGHTING - MECHANICAL & RESTROOM
E-102A	LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS
E-102B	LIGHTING PHOTOMETRICS - MECHANICAL & RESTROOM
E-103	INTERIOR LIGHTING - CUT SHEETS
E-104	INTERIOR LIGHTING - CUT SHEETS
E-111A	FIRST FLOOR PLAN - POWER - BATH HOUSE & CONCESSIONS
E-111B	FIRST FLOOR PLAN - POWER - MECHANICAL & RESTROOM
E-121A	FIRST FLOOR PLAN - SYSTEMS - BATH HOUSE & CONCESSIONS
E-121B	FIRST FLOOR PLAN - SYSTEMS - MECHANICAL & RESTROOM
E-200	ELECTRICAL DETAILS
E-201	ELECTRICAL DETAILS
E-300	ELECTRICAL DIAGRAMS
E-400	ELECTRICAL SCHEDULES
E-500	ELECTRICAL PANEL SCHEDULES
E-501	ELECTRICAL PANEL SCHEDULES
E-502	ELECTRICAL PANEL SCHEDULES
GRAND TOTAL: 24	

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REF. SCALE IN INCHES — PROJECT #25005326.00

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL
COVERSHEET

E-000

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			DOWNLIGHT LUMINAIRE
			INDUSTRIAL LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN

LUMINAIRE CIRCUIT AND CONTROL KEY

LUMINAIRE

F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION
z1=ZONE DESIGNATION
"NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
"SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM CENTRAL EMERGENCY LIGHTING INVERTER UPON LOSS OF POWER.

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

ELECTRICAL SYMBOL LIST - LIGHTING CONTROLS

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
S		SW-1P	26 09 33	SWITCH - SINGLE POLE
	3	SW-3W	26 09 33	SWITCH - THREE WAY
	V	SW-V	26 09 33	SWITCH - VACANCY SENSOR AND SWITCH
	W	SW-1P-WP	26 09 33	SWITCH - WEATHERPROOF
	O	SW-O	26 09 33	SWITCH - OCCUPANCY SENSOR AND SWITCH
	K	SW-1P-K	26 09 33	SWITCH - SINGLE POLE - KEY LOCK
# #B		SW-#B	26 09 33	LIGHTING CONTROL STATION - RAISE, LOWER, FADE DIMMING (DEFAULT)

ELECTRICAL SYMBOL LIST - FIRE ALARM

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
		FACP	28 31 00	CONTROL PANEL
# S		FA-120	28 31 00	SMOKE DETECTOR - PHOTOELECTRIC
# H		FA-140	28 31 00	HEAT DETECTOR
#		FA-200	28 31 00	VISUAL ALARM DEVICE
	##	FA-200	28 31 00	VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING
# F		FA-210	28 31 00	AUDIO (HORN/CHIME) ALARM DEVICE
	##	FA-211	28 31 00	COMBINATION AUDIO (HORN/CHIME) / VISUAL ALARM DEVICE - ## INDICATES CANDELA RATING
		FA-160	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.
2. ROOM BASED LIGHTING CONTROLS: INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLLERS, CONTROL PANELS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL 'INTELLIGENT' LIGHTING CONTROL SYSTEM. LIGHTING CONTROL ZONES AND POWER CIRCUITS COMMONLY ALIGN.
3. NETWORK BASED LIGHTING CONTROLS: INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLS, CONTROL PANELS, DIMMER RACKS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL 'INTELLIGENT' LIGHTING CONTROL SYSTEM FOR ADVANCED ARCHITECTURALLY BASED LIGHTING CONTROL SYSTEMS. LIGHTING CONTROL ZONES COMMONLY ASSOCIATED WITH ONE OR MORE BRANCH POWER CIRCUITS WITHIN THE SAME CONTROL ZONE.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. STANDALONE LIGHTING CONTROL DEVICES: CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.
   - A. EXAMPLE SYMBOL "S", SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".
   - B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).
   - C. SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" WITHIN THE SAME SPACE.
   - D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.

   F# a — LUMINAIRE; a S — CONTROL

2. ROOM BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.
   - A. EXAMPLE CONTROL STATION: SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".
   - B. EXAMPLE PANEL/RACK/CABINET: TAGGED "LCPR#", DESCRIPTION "ROOM BASED LIGHTING CONTROL PANEL/RACK/CABINET.
   - C. EXAMPLE CONTROL DESIGNATIONS: a, b, c
   - D. LIGHTING CONTROL STATION "#B" a,b CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" AND "b" WITHIN THE SAME SPACE
   - E. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.

   F# a — LUMINAIRE; F# b — LUMINAIRE; a,b #B — CONTROL

3. NETWORK BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.
   - A. EXAMPLE SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".
   - B. EXAMPLE PANEL/RACK/CABINET: TAGGED "LCPN", DESCRIPTION "NETWORK BASED LIGHTING CONTROL PANEL/RACK/CABINET.
   - C. EXAMPLE CONTROL DESIGNATIONS: z1, z2, z3
   - D. LIGHTING CONTROL STATION "#B" z1 CONTROLS LUMINAIRES WITH THE SUBSCRIPT "z1". LUMINAIRES WITH A z1 DESIGNATION MAY OR MAY NOT BE SERVED BY THE SAME BRANCH LIGHTING CIRCUIT.
   - E. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.

   F# z1 1 — LUMINAIRE; F# z1 5 — LUMINAIRE; z1 #B — CONTROL

   BOTH LUMINAIRES ARE CONTROLLED BY THE SAME CONTROL STATION, SAME LIGHTING CONTROL ZONE Z1, BUT POWERED BY DIFFERENT BRANCH LIGHTING CIRCUITS.

LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES:

{L#-##} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E-400.

{#B} LIGHTING CONTROL STATION. THE "#" INDICATES THE MINIMUM QUANTITY OF ZONES/SCENES AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. THE LIGHTING CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) OR NETWORK CONTROL SYSTEM (z1, z2, z3) IS REQUIRED.

{z##} INDICATES ZONING AND REFLECTS A LIGHTING CONTROL GROUP. PROVIDE RELAYS AS REQUIRED TO ALLOW LUMINAIRES WITHIN THE DEFINED ZONE TO FUNCTION TOGETHER.

LIGHTING CONTROL SUBSCRIPTS:
1. LOWER CASE ALPHA SUBSCRIPTS "a, b, c" INDICATE LINE VOLTAGE OR ROOM BASED LIGHTING CONTROL SYSTEMS. REFER TO DRAWINGS TO DETERMINE IF LINE VOLTAGE CONTROL (S, S3, S4, ETC) OR {#B} ROOM BASED CONTROLLER SYSTEM (#B) IS REQUIRED.
2. LOWER CASE ALPHA NUMERIC SUBSCRIPTS "z1, z2, z3" INDICATE NETWORK BASED LIGHTING CONTROL SYSTEM.

REFER TO SHEET E-400 FOR LUMINAIRE SCHEDULE

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	IMC	EMT	PVC	RTRC	PVC COATED RMC	HDPE
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X				
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X				
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X				
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X				
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X				
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X				X		
CORROSIVE LOCATIONS	X	X			X	X	
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			X				
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	X				
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED			X				
UNDERGROUND / SLABS ON GRADE (OR UNDER SLABS ON GRADE)							
WITHIN THE PERIMETER OF THE BUILDING, UNDER SLAB ON GRADE	X			X			
WITHIN 5' OF ANY BUILDING WALL OR FOUNDATION WHEN PENETRATING THE STRUCTURAL FOUNDATION OR WALL	X				X		
UNDERGROUND SITE CONDUITS:							
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				X		
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X	X		
HAZARDOUS (CLASSIFIED LOCATIONS AS DEFIED BY THE NATIONAL ELECTRICAL CODE: COMPLETE WITH SCREWED FITTINGS AND CONDUIT SEALS	X				X		

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL
COVERSHEET

E-001

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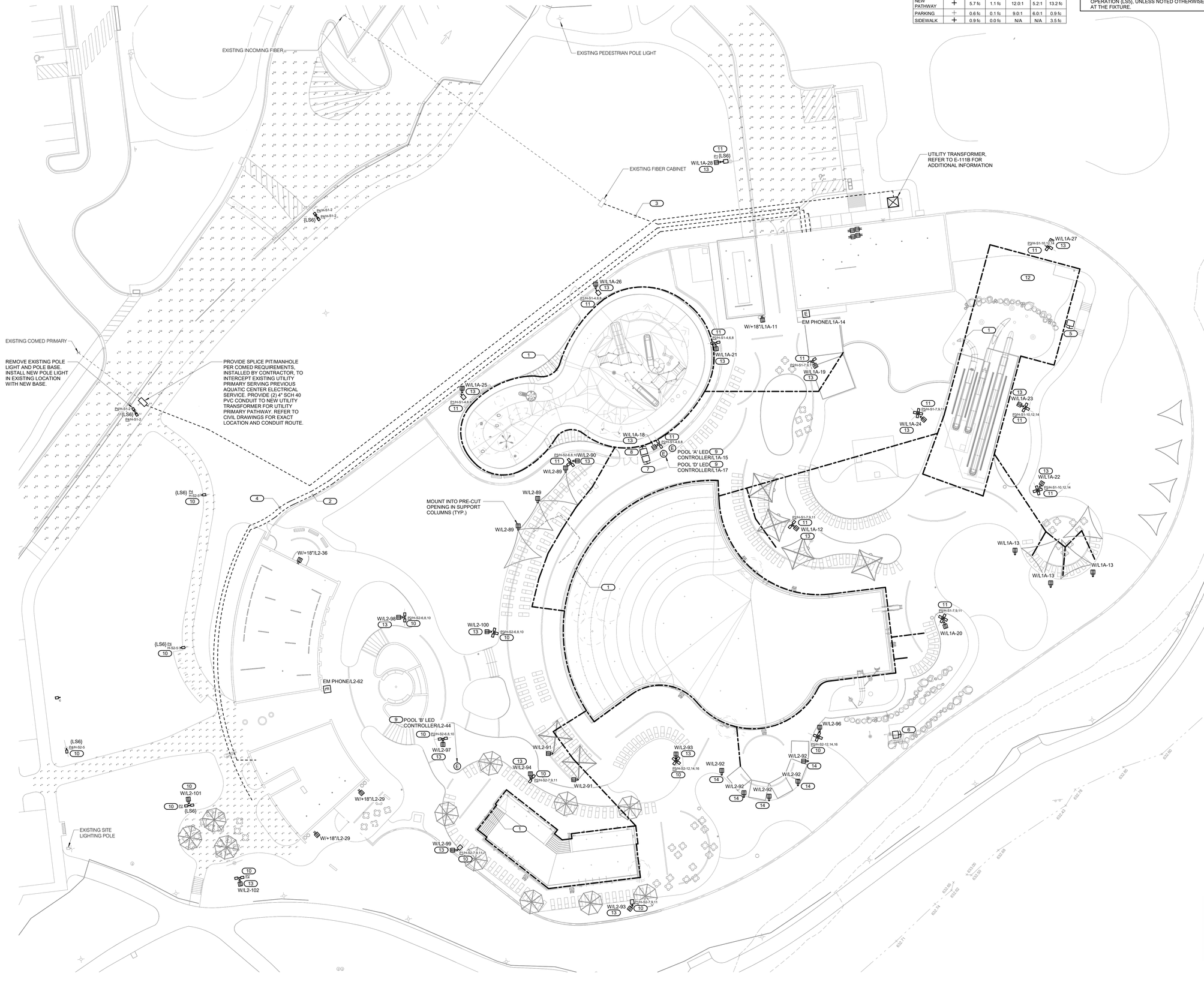

ELECTRICAL SITE PLAN

3/64" = 1'-0"

NORTH

Statistics						
Description	Symbol	Avg	Min	Max/Min	Avg/Min	Max
NEW PATHWAY	+	5.7 fc	1.1 fc	12.0:1	5.2:1	13.2 fc
PARKING	+	0.6 fc	0.1 fc	9.0:1	6.0:1	0.9 fc
SIDEWALK	+	0.9 fc	0.0 fc	N/A	N/A	3.5 fc

SHEET NOTES:

1. AQUATIC CENTER SITE LIGHTING IS CONTROLLED BY LIGHTING SEQUENCE OF OPERATION (LS5), UNLESS NOTED OTHERWISE AT THE FIXTURE.

KEYNOTES:

1. REFER TO 1/E-201 POOL BONDING DETAIL TO COMPLY WITH NEC 680.26 FOR POOL EQUIPONTENTIAL BONDING REQUIREMENTS.
2. (2) 2 1/2" C. ROUTED BETWEEN EACH PROPOSED BUILDING IT WALL CABINET. PROVIDE WITH PULL STRING.
3. (1) 2 1/2" C. FROM OWNERS TELECOM CABINET STUBBED TO BUILDING IT CABINET.
4. (2) 3" C. FROM MAIN SERVICE PANEL TO BATH & CONCESSION BUILDING DISTRIBUTION PANEL.
5. SLIDE EMERGENCY STOP. LOCATE AT TOP OF SLIDE TOWER. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
6. SLIDE EMERGENCY STOP. LOCATE AT SIDE OF SLIDE TOWER. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
7. ZERO DEPTH ENTRY WATER FEATURE EMERGENCY STOP. LOCATE AT BARRIER FENCE. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
8. WET DECK WATER FEATURE/PLAY STRUCTURE EMERGENCY STOP. LOCATE AT BARRIER FENCE. COORDINATE LOCATION AND WIRING REQUIREMENTS WITH AQUATIC PLANS.
9. 120V CONNECTION TO IN-POOL/POOL FEATURE REMOTE LED CONTROLLER. COORDINATE LOCATION OF ALL REMOTE LED DRIVERS WITH CONTROLLER LOCATION. REFER TO AQUATIC PLAN LIGHTING DETAILS AND 5/E-201 FOR ADDITIONAL REQUIREMENTS.
10. ROUTE (2) 1" C. FOR LOW-VOLTAGE PATHWAYS TO SERVE FUTURE WAPS OR SPEAKERS MOUNTED ON POLE. STUB CONDUIT FROM CONCESSIONS BUILDING IT ROOM UP WITHIN POLE BASE TO POLE HANDHOLE ACCESS. PROVIDE WITH NYLON PULL STRING.
11. ROUTE (2) 1" C. FOR LOW-VOLTAGE PATHWAYS TO SERVE FUTURE WAPS OR SPEAKERS MOUNTED ON POLE. STUB CONDUIT FROM MECHANICAL BUILDING IT ROOM UP WITHIN POLE BASE TO POLE HANDHOLE ACCESS. PROVIDE WITH NYLON PULL STRING.
12. ROUTE (2) 1" C. FOR LOW-VOLTAGE PATHWAYS TO SERVE FUTURE WAPS OR SPEAKERS MOUNTED ON POLE. STUB CONDUIT FROM MECHANICAL BUILDING IT ROOM UP TO TOP OF SLIDE TOWER. COORDINATE EXACT LOCATION AT TOWER WITH OWNER.
13. MOUNT RECEPTACLE AT BOTTOM OF AREA LIGHT FIXTURE POLE BASE WITH NEMA 3R WHILE-IN-USE COVER.
14. MOUNT RECEPTACLE IN FREESTANDING POWER PEDESTAL WITH NEMA 3R HINDGED LOCAKABLE COVER, PEDOC OR APPROVED EQUAL.

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Revision Schedule

NO	DATE	DESCRIPTION
1	03/20/2026	IDPH Response 1
2	03-27-2026	MAJOR SITE PLAN RESUBMITTAL 02

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN

E-002

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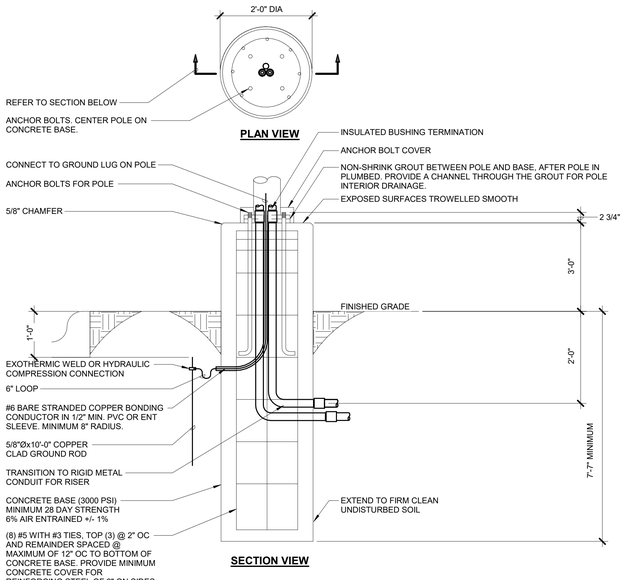
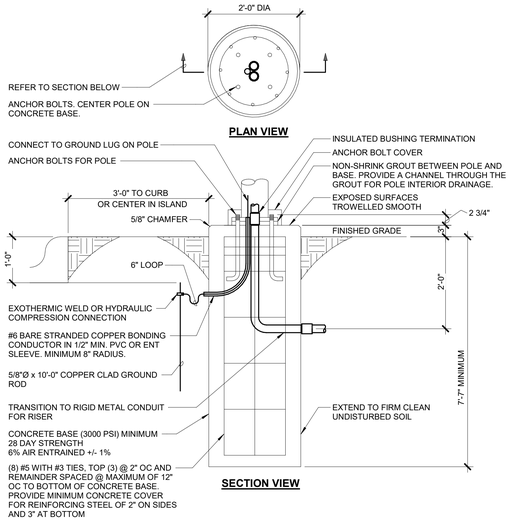


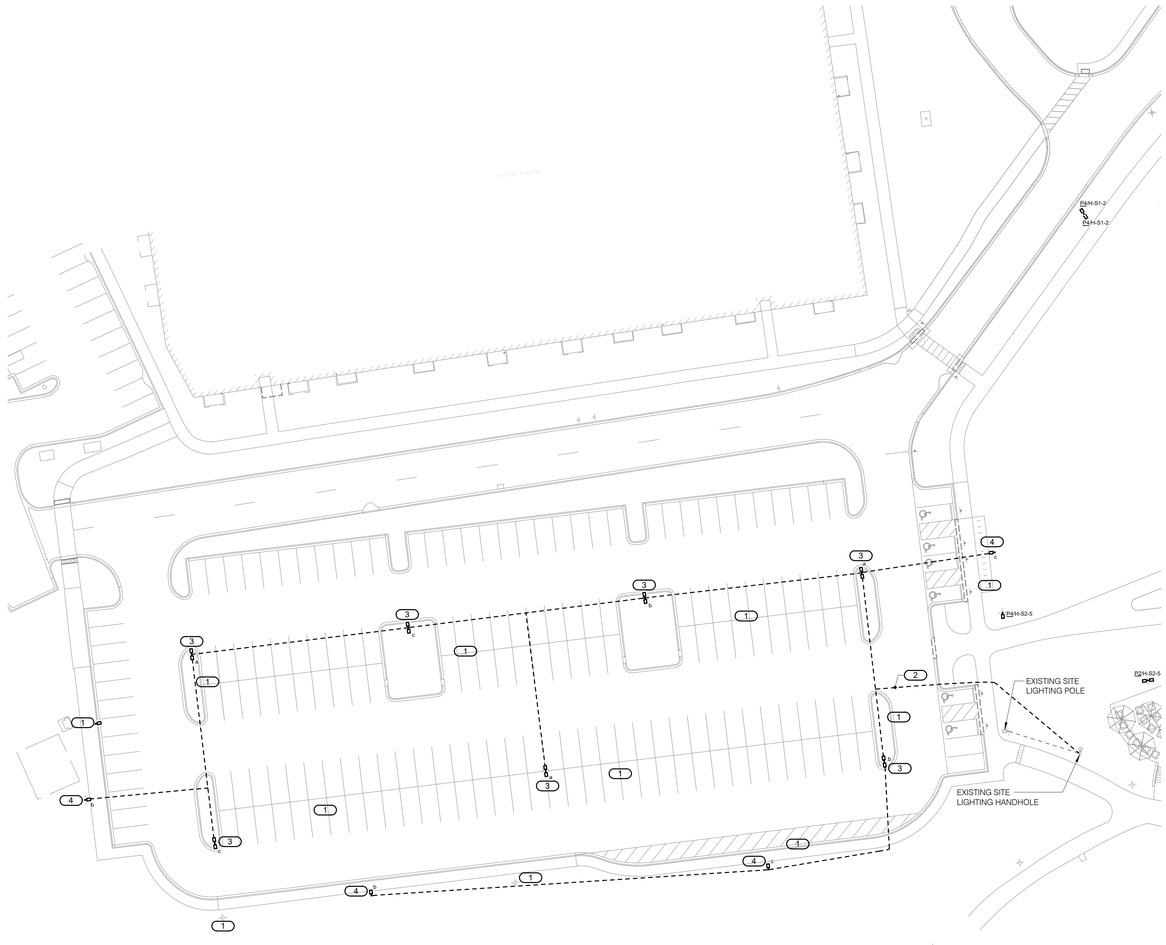
2 EXTENDED POLE BASE DETAIL
NO SCALE



3 POLE BASE DETAIL
NO SCALE

KEYNOTES:

1. EXISTING PARKING LOT POLE LIGHT AND ASSOCIATED CONCRETE BASE TO BE REMOVED. EXISTING POLE AND POLE LIGHT SHALL BE PROTECTED AND RELOCATED TO NEW LOCATION. DURING REMOVAL RECORD CONCRETE BASE DEPTH AND POLE BASE ANCHOR BOLT TYPE AND SPACING TO MATCH FOR NEW LOCATION. POLE BASE DETAIL ON THIS DRAWING SET PROVIDES THE MIN. REQUIREMENTS. EXISTING LIGHTING CIRCUIT SHALL BE REMOVED TO LAST ACTIVE DEVICES OR SITE HANDHOLE. EXISTING CONDUIT CAN BE CUT BELOW GRADE AND ABANDONED IN PLACE.
2. INTERCEPT EXISTING SITE LIGHTING CIRCUIT, WITHIN EXISTING HANDHOLE, SERVING PREVIOUS PARKING LOT FIXTURES. EXTEND EXISTING CIRCUIT(S) AND CONDUIT TO RELOCATE POLE LOCATIONS. MATCH EXISTING CONDUIT AND CONDUCTORS SIZE, USING MINIMUM OF 2#8 & 1#8 EGC IN 1" C. LIGHTING CIRCUITS ARE FED FROM LIGHTING CONTROLLER LOCATED IN CONCESSION BUILDING FIELD STORAGE ROOM. (3) CIRCUITS ARE ASSUMED TO BE SERVING THIS PARKING LOT. CIRCUITS SHALL ALTERNATE WITH EACH FIXTURE AS NOTED BY SITE PLAN SUBSCRIPT 'a', 'b', 'c'.
3. REFER TO EXTENDED POLE BASE DETAIL. POLE BASE DEPTH, WIDTH, AND ANCHOR BOLT LAYOUT SHALL MATCH EXISTING AT PREVIOUS POLE LOCATION. DETAIL PROVIDES MIN. REQUIREMENTS. BASE SHALL BE EXTENDED TYPE WITH LENGTH ABOVE GRADE AS SHOWN ON DETAIL.
4. REFER TO POLE BASE DETAIL. POLE BASE DEPTH, WIDTH, AND ANCHOR BOLT LAYOUT SHALL MATCH EXISTING AT PREVIOUS POLE LOCATION. DETAIL PROVIDES MIN. REQUIREMENTS.



NORTH

1 ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES
1" = 30'-0"

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES

E-003

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Statistics						
Description	Avg	Min	Max/Min	Avg/Min	Max	Symbol
Drive/Pedestrian Walkway	2.1 fc	0.1 fc	133.0:1	21.0:1	13.3 fc	+
Parking Lot	2.2 fc	0.1 fc	238.0:1	22.0:1	23.8 fc	+



NORTH

1 **ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES - PHOTOMETRIC PLAN**

1" = 30'-0"

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Revision Schedule

NO.	DATE	DESCRIPTION
2	03-27-2026	MAJOR SITE PLAN RESUBMITTAL 02

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN - HERITAGE PARK WEST PARKING UPGRADES - PHOTOMETRIC

E-004

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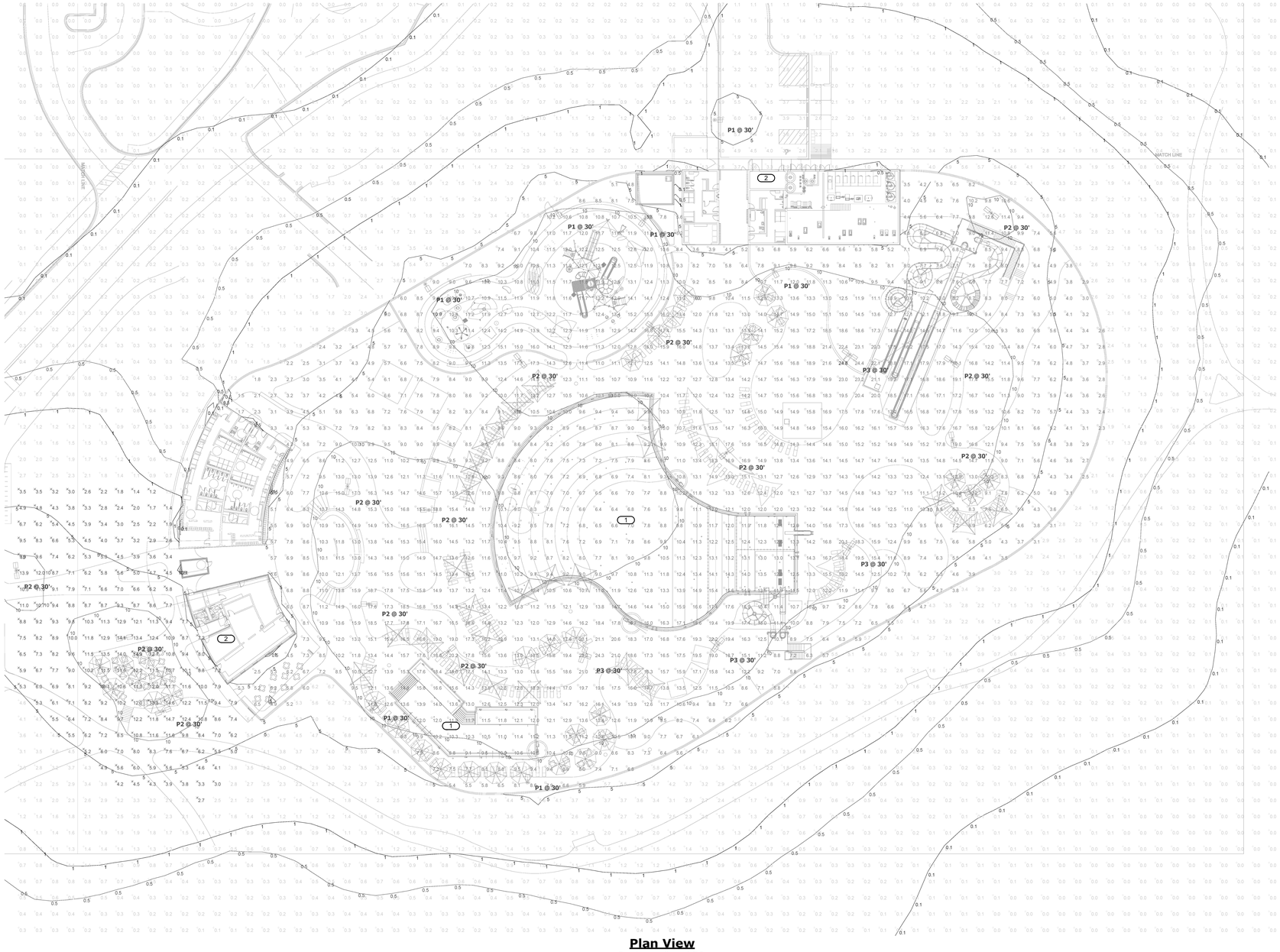

Plan View
Scale - 1" = 25ft

KEYNOTES:

1. REFER TO AQUATIC DESIGNER POOL DRAWINGS FOR IN-POOLING LIGHTING PHOTOMETRICS FOR POOL SURFACE LIGHT LEVELS. POOL 'A' IS PROVIDED WITH 41 IN-POOL LIGHTS AT 3200 LUMENS PER FIXTURE RESULTING IN 8.39 LUMENS/SF. POOL 'B' IS PROVIDED WITH 7 IN-POOL LIGHTS AT 3200 LUMENS PER FIXTURE RESULTING IN 8.79 LUMENS/SF.
2. SITE LIGHTING CONTROLS SHALL FOLLOW SEQUENCE (LS5), REFER TO LIGHTING SEQUENCE OF OPERATIONS ON E-500.

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	P1	7	Lithonia Lighting	DSX2 LED P8 40K 80CRI TFTM	D-Series Size 2 Area Luminaire P8 Performance Package 4000K CCT 80 CRI Forward Throw	1	52804	0.93	462.45
	P2	13	Lithonia Lighting	DSX2 LED P8 40K 80CRI TFTM	D-Series Size 2 Area Luminaire P8 Performance Package 4000K CCT 80 CRI Forward Throw	1	52804	0.93	924.9
	P3	4	Lithonia Lighting	DSX2 LED P8 40K 80CRI TFTM	D-Series Size 2 Area Luminaire P8 Performance Package 4000K CCT 80 CRI Forward Throw	1	52804	0.93	1387.35

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ENTRY AREA	✕	7.5 fc	14.9 fc	1.0 fc	14.9:1	7.5:1
POOL SITE - INSIDE FENCE		11.1 fc	24.8 fc	1.5 fc	16.5:1	7.4:1

NOTES:
1. CALCULATION POINT WORK PLANE: GRADE LEVEL
2. FIXTURE MOUNTING HEIGHT: REFER TO FIXTURE LABELS NOTED ON PLAN

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE PLAN - PHOTOMETRICS

E-005

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D-Series Size 2
LED Area Luminaire

d*series

Catalog Number:

Notes:

Type:

*Hit the tab key or mouse over the page to see all interactive elements.

Specifications

EPA: 1.06 ft² (0.10 m²)

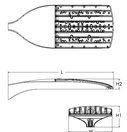
Length: 40.59" (103.1 cm)

Width: 14.76" (43.6 cm)

Height H1: 8.11" (20.6 cm)

Height H2: 3.96" (10.1 cm)

Weight: 46 lbs (20.9 kg)



Design Select options indicated by this color background.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.
The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outdoing photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 1000W HID and expected service life of over 100,000 hours.

design select

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Ordering Information

EXAMPLE: DSX2 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED

Series	LEDs	Color temperature[1]	Color Rendering Index[1]	Distribution	Voltage	Mounting
DSX2 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 P8 **Rotated optics** P10[2] P13[2] P11[2] P14[2] P12[2]	30K 3000K 40K 4000K 50K 5000K 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[4,5] XVOLT (277V - 480V)[5] 120 [6,7] 208 [6,7] 240 [6,7] 277 [6,7] 347 [6,7] 480 [6,7]	**Shipped included** SPA Square pole mounting (RS drilling) RPA Round pole mounting (RS drilling) SPAS Square pole mounting (RS drilling)[8] RPAS Round pole mounting (RS drilling)[8] SPABN Square narrow pole mounting (RS drilling) WBA Wall bracket[9] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	Finish (required)
Shipped included NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 20-, 15-fc[6,7] PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [6,7] PER NEMA twist-lock receptacle only (controls ordered separately)[10] PERS Five-pin receptacle only (controls ordered separately)[10,11]	**Shipped included** SPD20KV 20KV surge protection HS Houseside shield (black finish standard)[12] L90 Left-rotated optics[1] R90 Right-rotated optics[1] CCE Coastal Construction[13] HA 50°C ambient operation[14] BAA Buy America(n) Act and/or Build America Buy America Qualified SF Single fuse (120, 277, 347V)[6] DF Double fuse (208, 240, 480V)[6] 3G Vibration rated for 3G[15] **Shipped separately** PER7 Seven-pin receptacle only (controls ordered separately)[10,11] FAO Field adjustable output[16,17] BL30 Bi-level switched dimming, 30%[18,21] BL50 Bi-level switched dimming, 50%[18,21] DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)[17] DS Dual switching[18,19,21] EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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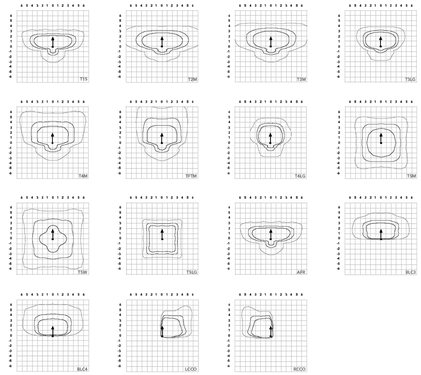
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX2 LED P8 40K 70CRI. Distances are in units of mounting height (MH).

LEGEND
0.1 fc
0.5 fc
1.0 fc



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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.03
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platform noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).
To calculate L70, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.82

FAO Dimming Settings

FAO Position	% Voltage	% Lumen Output
9	100%	100%
7	95%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire, wired to the dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads.
DS (not available on D583)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as NLMIR.	Pins 4 & 5 to dimming leads on drivers. Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8 to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls ISBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor override when wirelessly connected to the nLight Ethernet.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRITY Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)				
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	80	530	135	1.12	0.65	0.56	0.49	0.39	0.28
	P2	80	700	181	1.49	0.86	0.75	0.65	0.52	0.37
	P3	80	850	222	1.83	1.05	0.91	0.79	0.63	0.46
	P4	80	1050	277	2.27	1.31	1.14	0.98	0.79	0.57
	P5	80	1250	333	2.72	1.57	1.36	1.18	0.94	0.68
	P6	100	1050	345	2.85	1.64	1.42	1.23	0.98	0.71
	P7	100	1250	414	3.41	1.97	1.70	1.48	1.18	0.85
	P8	100	1400	466	3.85	2.22	1.93	1.67	1.33	0.96
Rotated Optics (Requires L90 or R90)	P10	90	530	152	1.27	0.73	0.63	0.55	0.44	0.32
	P11	90	700	203	1.69	0.97	0.84	0.73	0.58	0.42
	P12	90	850	249	2.06	1.19	1.03	0.89	0.71	0.52
	P13	90	1,000	358	2.95	1.70	1.47	1.28	1.02	0.74
	P14	90	1400	421	3.46	2.00	1.73	1.50	1.20	0.87

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

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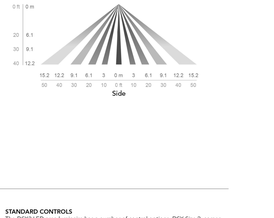
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN





FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration tested per ANSI C136.31 for 1.5G. 3G vibration rated available for (MA) mast arm mount when specifying option 3G. Low EPA (1.06 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L82/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.72" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPAS or RPAS. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

STANDARD CONTROLS
The DSX2 LED area luminaire has a number of control options. DSX Size 2, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS
The DSX2 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL listed for wet locations. Light engines are IP66 rated. luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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LITHONIA LIGHTING.

Catalog Number:

Notes:

Type:

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Square Straight Aluminum is a general purpose light pole for up to 35-foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

CONSTRUCTION —

Pole Shaft: The pole shaft is of uniform wall thickness and is made of extruded 6000 series aluminum alloy tubing that is heat treated to a T6 temper to provide maximum strength. The shaft is uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5", 6" and 6.75".

Pole Top: Options include 4" tall tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. A removable cast aluminum top cap with set screws is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with open top (PT) option. The top cap resists intrusion of moisture and environmental contaminants.

Handhole: A handhole opening with grounding provision is provided near the base. Standard positioning varies with shaft width as follows: 4" shaft, handhole at 12"; 5" shaft, handhole at 18"; 6" and 6.75" shaft, handhole at 18". Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. The handhole for a pole specified with a 4" or 5" shaft width has a nominal dimension of 2" x 4"; the handhole for a pole specified with a 6" or 6.75" width has a nominal dimension of 2.63" x 5". Standard and extra handholes come with cover and attachment hardware.

Bolt Caps/Base Cover: Pole base plate utilizes cast aluminum A365 nut cover discs to cover anchor bolt and nut assembly. 2 piece, spun aluminum base cover available as an option.

Anchor Base/Bolts: Anchor base is cast from A356 alloy aluminum. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end.

HARDWARE — All structural and non-structural fasteners are stainless-steel.

FINISH — Extra durable painted finish is coated with TGIC (Triglycidyl Isocyanurate) Polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes.

GROUNDING: Grounding provision is located in handhole near the base. Grounding hardware is not included (provided by others).

INSTALLATION — **Do not** erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

Anchor Base Poles

SSA

SQUARE STRAIGHT ALUMINUM

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PROJECT #25005326.00

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Revision Schedule

NO	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SITE LIGHTING - CUT SHEETS

E-006

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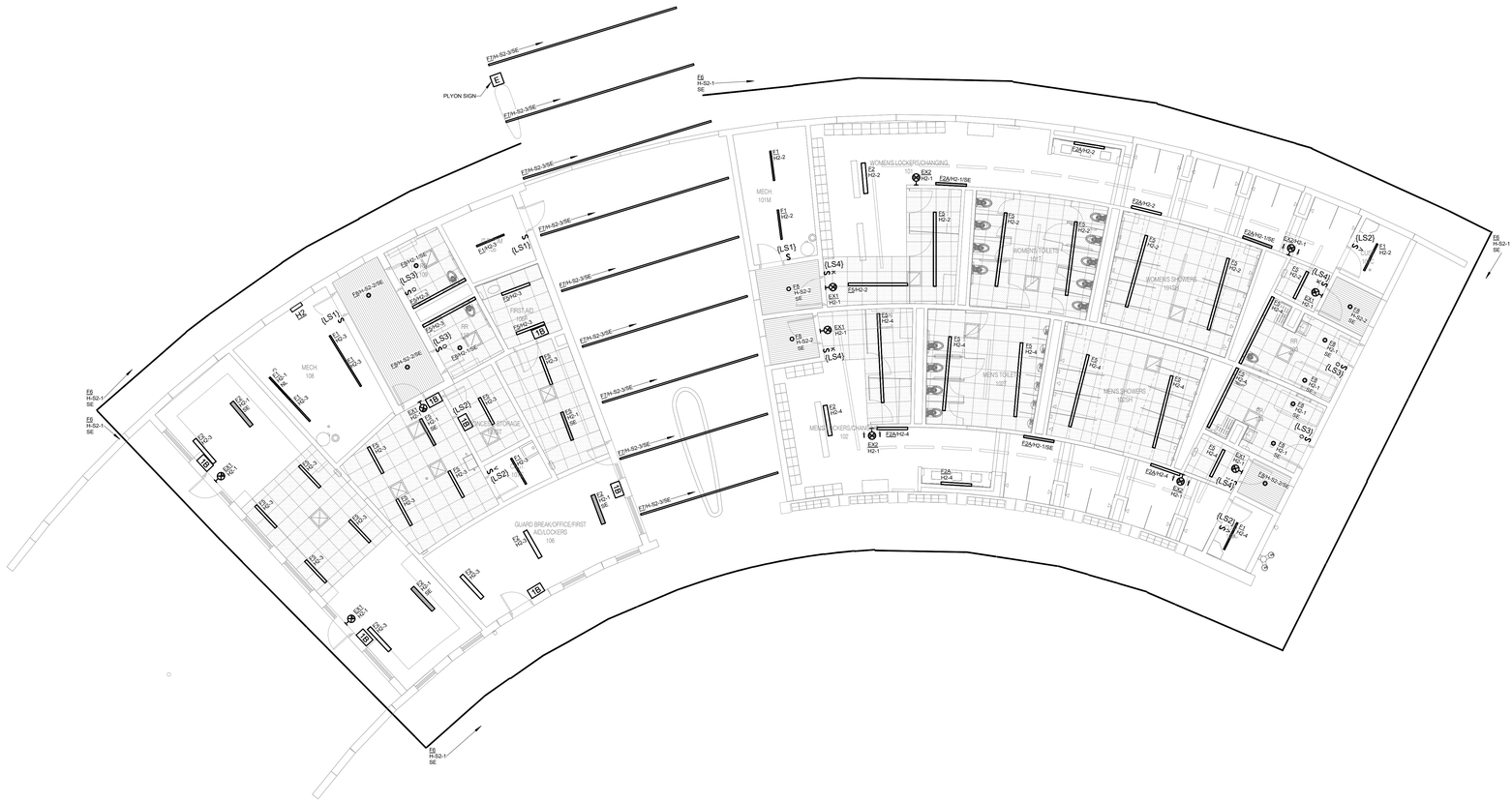
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SCALE

SHEET NOTES:

1. EXTERIOR BUILDING MOUNTED LIGHTING IS CONTROLLED BY LIGHTING SEQUENCE OF OPERATION (LS7), UNLESS NOTED OTHERWISE AT THE FIXTURE.



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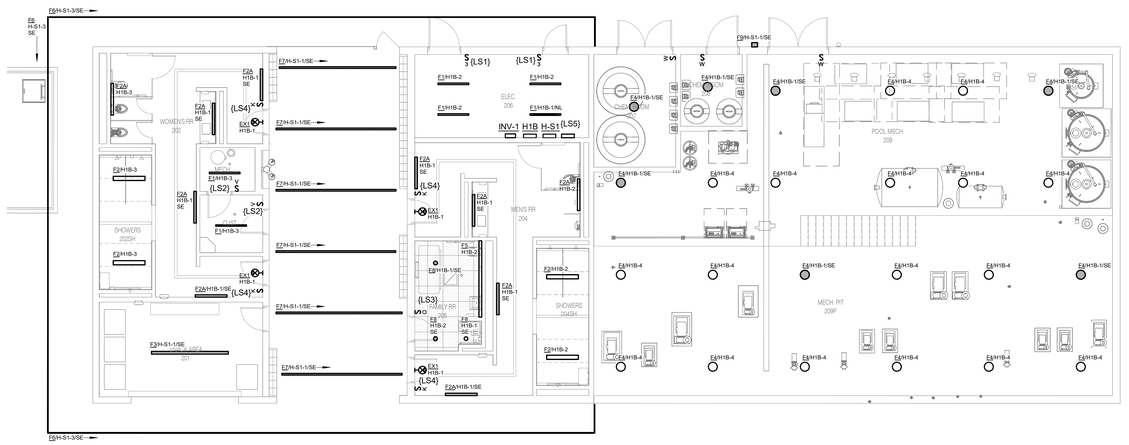

1 FIRST FLOOR PLAN - LIGHTING - MECHANICAL & RESTROOM

1/8" = 1'-0"

NORTH

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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

FIRST FLOOR PLAN - LIGHTING - MECHANICAL & RESTROOM

E-101B

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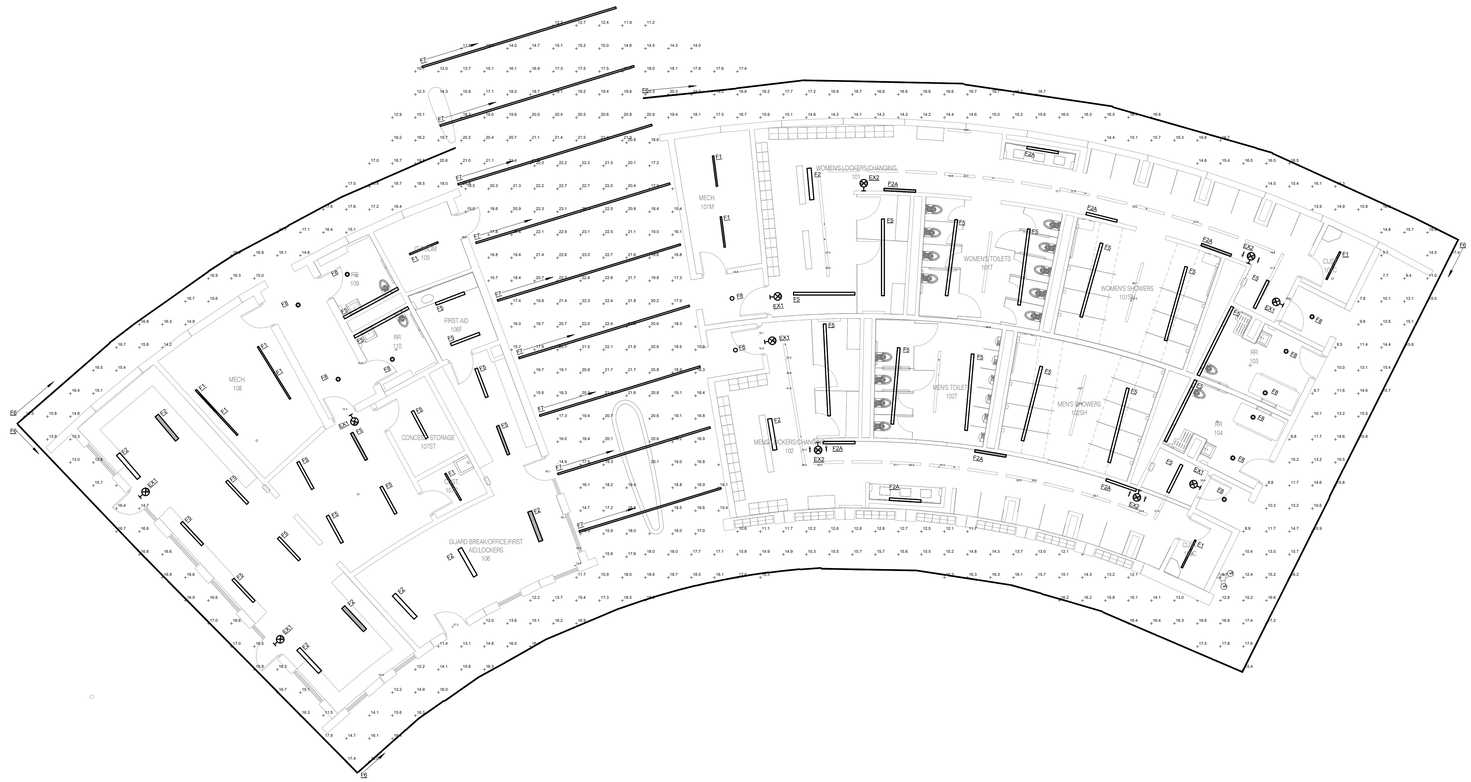
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SCALE ON ORIGINAL PLOTS

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CONCESS. STORAGE	+	16.8 fc	19.6 fc	13.5 fc	1.5:1	1.2:1
CONCESSIONS SERVING 107	+	45.5 fc	74.6 fc	20.9 fc	3.6:1	2.2:1
CUST	+	24.6 fc	28.3 fc	19.5 fc	1.5:1	1.3:1
CUSTO 102C	+	24.3 fc	28.5 fc	19.2 fc	1.5:1	1.3:1
ENTRY	+	15.9 fc	16.2 fc	15.7 fc	1.0:1	1.0:1
ENTRY 101A	+	13.5 fc	14.8 fc	9.4 fc	1.6:1	1.4:1
ENTRY 101B	+	15.2 fc	15.6 fc	14.4 fc	1.1:1	1.1:1
ENTRY 101B	+	15.3 fc	15.7 fc	15.1 fc	1.0:1	1.0:1
FIRST AID 106F	+	46.9 fc	58.9 fc	35.0 fc	1.7:1	1.3:1
GUARD BREAK/OFFICE/FIRST AIR/LOCKERS 106	+	36.6 fc	59.0 fc	19.4 fc	3.0:1	1.9:1
IT 105	+	19.3 fc	23.3 fc	15.6 fc	1.5:1	1.2:1
MECH 101	+	25.5 fc	31.4 fc	17.9 fc	1.8:1	1.4:1
MECH 108	+	40.8 fc	57.3 fc	20.1 fc	2.9:1	2.0:1
MENS locker Toilets 102T, Shower 102SH	+	34.5 fc	58.2 fc	14.1 fc	4.1:1	2.4:1
PASSAGE	+	13.1 fc	14.2 fc	8.6 fc	1.7:1	1.5:1
RR 103	+	34.9 fc	47.9 fc	18.9 fc	2.5:1	1.8:1
RR 104	+	31.4 fc	42.1 fc	16.4 fc	2.6:1	1.9:1
RR 109	+	43.0 fc	51.2 fc	31.1 fc	1.6:1	1.4:1
RR 110	+	28.9 fc	35.8 fc	18.0 fc	2.0:1	1.6:1
WOMEN'S LOCKERS/CHANGING 101	+	32.9 fc	54.5 fc	6.3 fc	8.7:1	5.2:1
BUILDING CANOPY	+	15.6 fc	21.9 fc	5.7 fc	3.8:1	2.7:1
WOMEN'S LOCKERS/CHANGING 101	+	19.3 fc	23.2 fc	13.3 fc	1.7:1	1.5:1



1 FIRST FLOOR PLAN - LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS

1/8" = 1'-0"

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Illinois Design Firm Registration #184008976-0014

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PROJECT #25005326.00

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CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
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49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

NO	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS

E-102A

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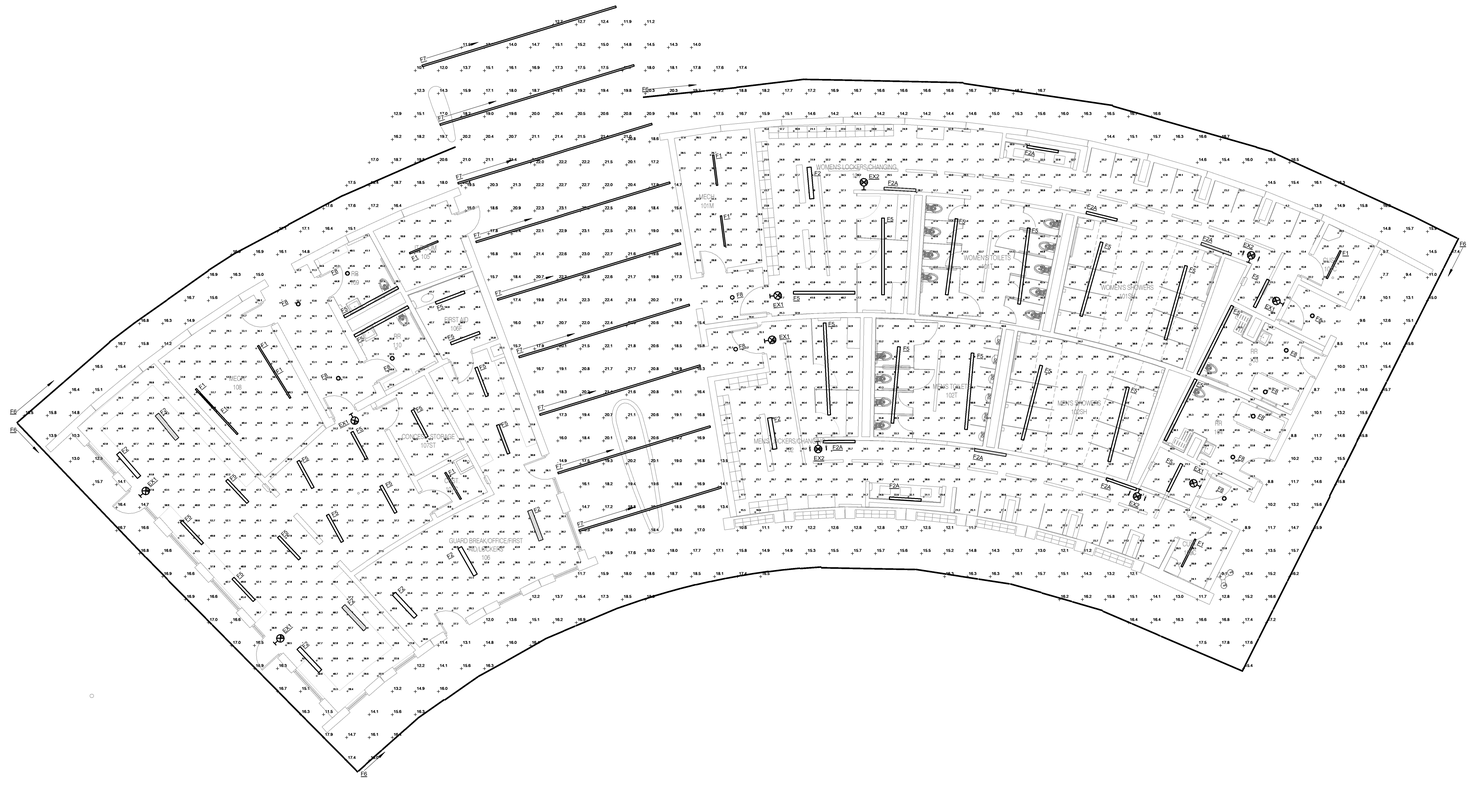
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED DRAWINGS

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CONCESS. STORAGE	+	16.8 fc	19.6 fc	13.5 fc	1.5:1	1.2:1
CONCESSIONS SERVING 107	+	45.5 fc	74.6 fc	20.9 fc	3.6:1	2.2:1
CUST	+	24.6 fc	28.3 fc	19.5 fc	1.5:1	1.3:1
CUSTO 102C	+	24.3 fc	28.5 fc	19.2 fc	1.5:1	1.3:1
ENTRY	+	15.9 fc	16.2 fc	15.7 fc	1.0:1	1.0:1
ENTRY 101A	+	13.5 fc	14.8 fc	9.4 fc	1.6:1	1.4:1
ENTRY 101B	+	15.2 fc	15.6 fc	14.4 fc	1.1:1	1.1:1
ENTRY 101B	+	15.3 fc	15.7 fc	15.1 fc	1.0:1	1.0:1
FIRST AID 106F	+	46.9 fc	58.9 fc	35.0 fc	1.7:1	1.3:1
GUARD BREAK/OFFICE/FIRST AIR/LOCKERS 106	+	36.6 fc	59.0 fc	19.4 fc	3.0:1	1.9:1
IT 105	+	19.3 fc	23.3 fc	15.6 fc	1.5:1	1.2:1
MECH 101	+	25.5 fc	31.4 fc	17.9 fc	1.8:1	1.4:1
MECH 108	+	40.8 fc	57.3 fc	20.1 fc	2.9:1	2.0:1
MENS locker Toilets 102T, Shower 102SH	+	34.5 fc	58.2 fc	14.1 fc	4.1:1	2.4:1
PASSAGE	+	13.1 fc	14.2 fc	8.6 fc	1.7:1	1.5:1
RR 103	+	34.9 fc	47.9 fc	18.9 fc	2.5:1	1.8:1
RR 104	+	31.4 fc	42.1 fc	16.4 fc	2.6:1	1.9:1
RR 109	+	43.0 fc	51.2 fc	31.1 fc	1.6:1	1.4:1
RR 110	+	28.9 fc	35.8 fc	18.0 fc	2.0:1	1.6:1
WOMEN'S LOCKERS/CHANGING 101	+	32.9 fc	54.5 fc	6.3 fc	8.7:1	5.2:1
BUILDING CANOPY	+	15.6 fc	21.9 fc	5.7 fc	3.8:1	2.7:1
WOMEN'S LOCKERS/CHANGING 101	+	19.3 fc	23.2 fc	13.3 fc	1.7:1	1.5:1



NORTH

1 FIRST FLOOR PLAN - LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS

1/8" = 1'-0"

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IMEG
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100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

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Revision Schedule

NO	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

LIGHTING PHOTOMETRICS - BATH HOUSE & CONCESSIONS

E-102A

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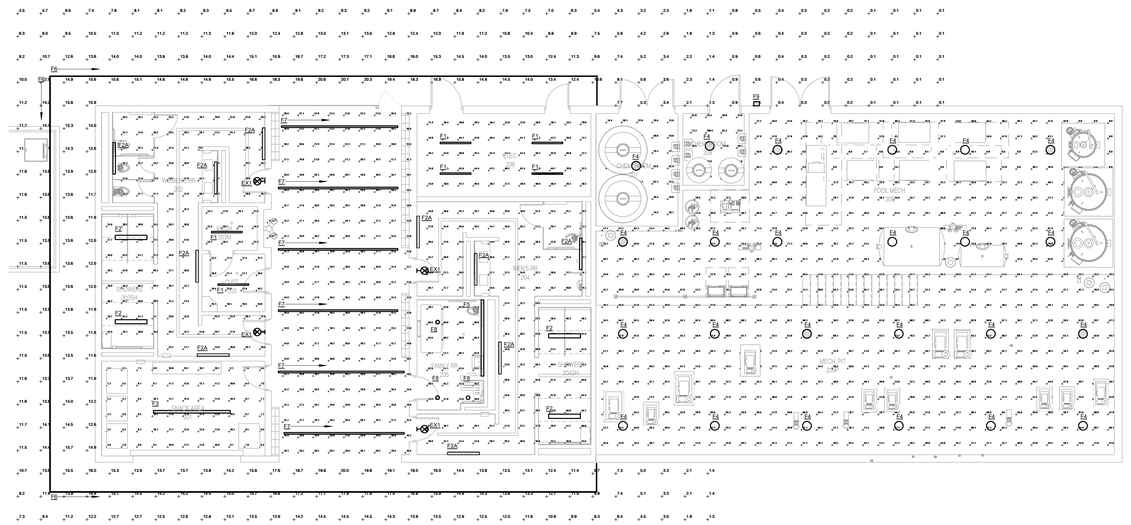

1 FIRST FLOOR PLAN - LIGHTING PHOTOMETRICS - MECHANICAL & RESTROOM

1/8" = 1'-0"

NORTH

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CHEM. ROOM 207	+	43.7 fc	133.5 fc	10.7 fc	12.5:1	4.1:1
CHEM. ROOM 208	+	66.6 fc	137.2 fc	26.7 fc	5.1:1	2.5:1
CUST. 203	+	18.5 fc	22.0 fc	15.1 fc	1.5:1	1.2:1
ELEC. 206	+	39.5 fc	46.8 fc	29.0 fc	1.6:1	1.4:1
Exterior Canopy	+	10.0 fc	20.7 fc	0.1 fc	207.0:1	100.0:1
EXTERIOR PASSAGE	+	18.0 fc	23.2 fc	12.9 fc	1.8:1	1.4:1
FAMILY RR 205	+	42.1 fc	51.1 fc	28.8 fc	1.8:1	1.5:1
MECH. 203M	+	25.4 fc	28.3 fc	22.6 fc	1.3:1	1.1:1
MEN RR 204	+	31.6 fc	49.4 fc	14.7 fc	3.4:1	2.1:1
POOL MECH. 209	+	49.2 fc	76.6 fc	0.0 fc	N/A	N/A
SNACK AREA 201	+	9.2 fc	12.9 fc	4.8 fc	2.7:1	1.9:1
WOMEN'S RR 202	+	32.5 fc	49.5 fc	8.5 fc	5.8:1	3.8:1

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PROJECT #25005326.00

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Beaver Dam, WI 53916
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Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

LIGHTING PHOTOMETRICS - MECHANICAL & RESTROOM

E-102B

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F1

LITHONIA LIGHTING®

Catalog Number
Notes
Type

LED Striplight

ZL1D

Z SERIES

24", 48" and 96" Lengths



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T8 lengths. Ideal for use in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install six-point row aligner included for continuous row mounting.

Finish: Paint options include high-gloss, baked white enamel (WH), or matte black (MB). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications (see PLR_ ordering information on page 5). Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page 4 for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

LEDs provide 80CRI or 90 CRI at 3000 K, 3500 K, 4000 K or 5000 K.

Lumen output up to 1,500 lumens per foot. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C).

INSTALLATION — Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Six-point aligner locks in place for easy continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

C US · A+ CAPABLE · DLC LISTED · BAA · BABA

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

F2 & F2A

VICTORY® NARROW SERIES

New Star Lighting

PROJECT: ____
TYPE: ____
PRODUCT: ____
APPROVED BY: ____



VICN Series

Registration No. 7,933,706

PRODUCT FEATURES

- Intended for Public Areas, Corridors, Stairways, Parking Garages, Restrooms, Lobbies, Schools, and more
- Architectural linear luminaire that melds aesthetics, function and vandal resistance
- Extruded aluminum housing with cast aluminum endcaps for durability
- Certified to UL standards by Intertek Testing Laboratories for Wet Locations (under covered ceiling). IK10 Listed per IEC60068. Optional 3G rating
- This product is Made in America and complies with the Buy American Act (BAA)
- The Victory Series is covered by the New Star Promise

ORDERING INFORMATION

Example: VIC2N-L235-90C-1C-RW-WH-UN

VIC		N						
Series	Nominal Size* 1 = 1ft 2 = 2ft 3 = 3ft 4 = 4ft *Nominal size. Dimensional data on Page 2.	Style N = Narrow	End Caps blank = Flat End Caps (std) DE = Decorative End Caps	Lumen Output* L1 = Low L2 = Standard L3 = High** CL = Custom Lumens*** *Subject to change. Performance Data on Page 3. **Cannot be used with Occ Sensor. ***N/A with 1ft. Must be specified at time of quote. Must not exceed fixture maximum output.	Color Temp. 35 = 3500K 40 = 4000K 50 = 5000K AMB = Amber	CRI 80C = 80 CRI 90C = 90 CRI	Circuits 1C = 1 Circuit 2C = 2 Circuits* *Allows for inboard/outboard control	Lens RW = .09 Ribbed White Poly. RC = .09 Ribbed Clear Poly. RWC = .156 Ribbed White Poly. RCC = .156 Ribbed Clear Poly.

Finish	Voltage	Driver	Options	Accessory
WH = White CC = Custom Color* *Must specify RAL number at time of order and if antimicrobial finish is needed. Subject to setup fees.	12 = 120V 27 = 277V 34 = 347V UN = Universal (120V-277V)	blank = DMI (Standard 0-10V Dimming with 0-10% range) SD2 = Step. Dimming Driver (50-100%)† SD3 = Step. Dimming Driver (30-70-100%)† †3500K Non-dimming Night Light with integrated switch allows light levels at 100%, 70%, 40% and 10%. Consult factory for 347V. If SD2 and OC are ordered together, fixture operates at 50% when area isunoccupied. Fixture increases to 100% after motion is detected and reverts to 50% after time delay (set by user).	PC = Photocell (N/A decorative end cap)* OC = Occupancy Sensor (N/A decorative end cap)** RM = Row Mount for Field Installation*** EL1 = Emerg. Bat. LED Low (10W)ª EL2 = Emerg. Bat. LED Low (20W)ª LN = LED Night Light‡ FZ1 = Fuse (120V) FZ2 = Fuse (277V) PH = Phillips Flat Head Screws (3 fasteners on each side) NAT = Natatorium Finish PM = Pendant Mount Install (Stems/Hardware by others) 3G = 3G Vibration Rated Design *N/A with 347 or UN voltage. Refer to Page 1 if ordering with SD2 or SD3. **Refer to Specification Features if ordering with SD2 or SD3 option. Cannot be used with L3 Output. ***Kit includes joining hardware for field installation. If decorative end caps are specified, only end units will have decorative end cap. Consult factory for details. ªConsult factory for VIC1 emergency options. ‡3500K Non-dimming Night Light with integrated switch allows light levels at 100%, 70%, 40% and 10%. Consult factory for 347V. If SD2 and OCare ordered together, fixture operates at 50% when area is unoccupied. Fixture increases to 100% after motion is detected and reverts to 50% after time delay (set by user). 'Consult factory for 347V. If SD3 and OC are ordered together, SD3 will be set at lowest dimming level	CM = Corner Mount Bracket

New Star Lighting
2225 W Pershing Rd, Chicago, IL 60609
(773) 847-1400
www.newstarlighting.com

Specifications and dimensions are subject to change without notice. For additional options and dimensional details, please consult your New Star Lighting representative.

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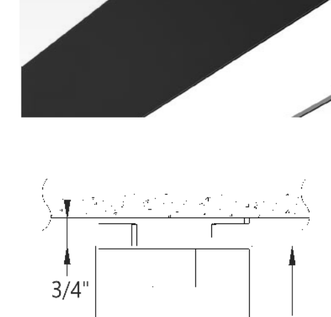
F3

Extend 4 | Surface mount



Project ____
Type ____
Notes ____



SHIELDING DIRECT: SO Spotless Lens · ASO Asymmetric · BW Batwing · GZ Graze · WW Wall Wash

PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1200 lm/ft	10.1 W/ft	111 lm/W	SO
1000 lm/ft	9.9 W/ft	100 lm/W	GZ
1000 lm/ft	9.8 W/ft	102 lm/W	WW
1000 lm/ft	9.8 W/ft	102 lm/W	ASO
1200 lm/ft	12 W/ft	100 lm/W	BW

*Please consult factory for custom lumen output and wattage.

NSF · IK10 · IP66 · cULus

Ordering Guide

EX4S				
PRODUCT ID	NOM.LUMENS/FT	CRI	COLOR TEMP.	SHIELDING
EX4S Extend 4 Surface	400 400 lm/ft - Min. 1000 1000 lm/ft - Max for GZ, WW, ASO.* 1200 1200 lm/ft - Max.	80 80 CRI 90 90 CRI	27 2700 K 30 3000 K 35 3500 K 40 4000 K 50 5000 K	SO spotless lens GZ Graze WW Wallwash ASO Asymmetric BW Batwing
	Outputs between listed min and max are available. * 1000 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.			

LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2' 3 3' 4 4' 5 5' 6 6' 7 7' 8 8' 12 12' S(L) System Run	AP aluminum paint W white BLK black C custom	120 120 V 277 277 V 347 347 V UNV universal	DP dimming (0-10V) 1% temp. range -22°F - +104°F (-30°C - +40°C) DPX dimming (0-10V) 1%, extended temp. range -40°F - +122°F (-40°C - +50°C) LT(#) Lutron* BI bi-level dimming O(#) other*	1 1 circuit 2 2 circuits +E(#) emergency circuit* +NL(#) night light circuit* +GTD(#) generator transfer device* **
Lengths are nominal. Exact lengths can be specified, please consult factory.			Integral drivers standard, remote drivers available for environments outside of driver operating temperature range or where fixture access may be limited. See page 2 for more details. * Please consult factory; see page 2.	* Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	IC CONTROLS (OPTIONAL)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
SB surface bracket S surface ceiling* SBBP surface bracket with bird protection	B(#) battery pack (integral)* BR(#) battery pack (remote)**	OS(#) occupancy sensor	+EF end feed* +N natatorium finish	C custom
* Requires opening fixture for installation.	*Minimum 3ft; **Dry/Damp location only. Please consult factory.	See integrated controls guide for further details Please consult factory	* End Feed standard for S mounting	Please specify

F4

HJCR Series

The SENTINEL™

Hazardous Location LED Lighting

HazLoc HAZARDOUS LOCATION

SOLAS RAY™ LIGHTING
5935 West 84th St. | Indianapolis, IN 46278 | 1-888-391-4822 | www.SolasRay.com

Cat. #	Type
Notes	



CERTIFICATIONS / RATINGS

UL844 · UL924 · CERTIFIED UL 1598 · IP66 · IP67 · MARINE UL 1598 A · DLC LISTED · IK08 IMPACT RATING · IK10 IMPACT RATING** · ABS · CSA C22.2 No. 137-18 · CSA C22.2 No. 250.0

CLASS / DIVISION

- Class I, Div 1, Groups C, D
- Class II, Div 1, Groups E, F, G
- Class III
- Class I, Div 2, Groups A, B, C, D
- Class II, Div 2, Groups F, G

KEY FEATURES AND BENEFITS

- Ambient temperature capabilities: -40°C (-40°F) to 60°C (140°F)
- * DLC V5.1 Standard (4000K/5000K / 120° models only).
- Internal EM battery option (15W / 90 min).
- ** Impact Resistance: IK08 (standard lens) / IK10 (glass globe with wire guard).
- Corrosion proof - coated copper free aluminum alloy housing.
- Gray nylon corrosion resistant powder coating.
- Optional reflective hoods available.
- 0-10V dimming option available.
- 1000 hours salt spray test passed.

SPECIFICATIONS

Voltage	120-277 VAC / 347-480 VAC	T-Rating	T4
Wattage	40W / 60W / 80W / 100W / 150W / 200W / 250W / 280W	Lifetime	100,000+ hrs L_{70}
Color Temp	4000 / 5000 Kelvin	CRI	>70
Housing	Coated copper free aluminum alloy	Beam Angles	120° / 90° / 60° / 40°
Color	Gray	Efficacy	140 lm/W
Lens	Tempered glass	Entrance Thread	3/4" NPT
Ambient Temperature	-40°C (-40°F) to 60°C (140°F) (-10°C to 60°C with EM Battery)	Protection	IP66 / IP67
		Warranty	5 Year Limited Warranty - Fixture 3 Year Limited Warranty - Battery

LUMENS

40W	60W	80W	100W	150W	200W	250W	280W
5,600	8,400	11,200	14,000	21,000	28,000	35,000	39,200

PRODUCT ORDERING SELECTION

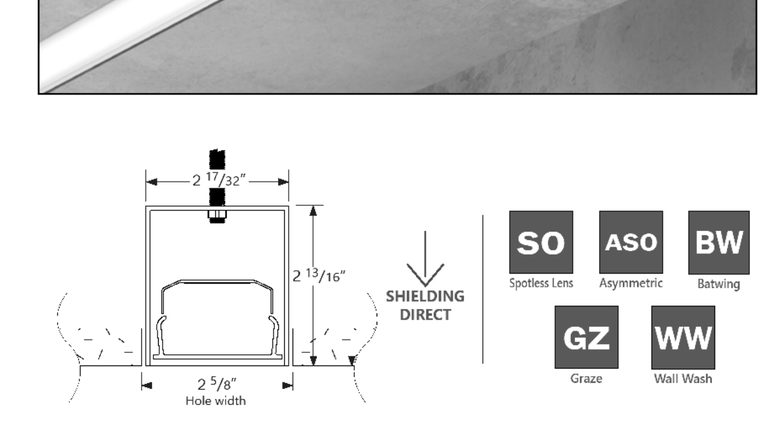
HJCR1L – ___ – ___ – ___ – ___ – ___ – ___

Series	Watts	Kelvin	Voltage	Beam Angle	Mounting Options	Other Options
☑ HJCR1L	☐ 040 - 40W ☐ 060 - 60W ☐ 080 - 80W ☐ 100 - 100W ☐ 150 - 150W ☐ 200 - 200W ☐ 250 - 250W ☐ 280 - 280W	☐ 40 - 4000K ☐ 50 - 5000K	☐ U - 120-277 VAC ☐ 48 - 347-480 VAC	☐ 120 - 120° (Std) ☐ 90 - 90° ☐ 60 - 60° ☐ 40 - 40°	☐ HJTB - Trunnion Bracket ☐ HJCJB - Ceiling Junction Box ☐ HJPP - Pendant Pipe ☐ HJWA - Wall Arm ☐ HJPS90 - 90° Pole Stanchion ☐ HJPS25 - 25° Pole Stanchion ☐ HJW90 - 90° Junction Box Wall Arm ☐ HJW25 - 25° Junction Box Wall Arm	☐ HJDR - Dome Reflective Hood* ☐ HJAR - Angled Reflective Hood* ☐ GL-HJGU - Glass Globe with Wire Guard ☐ DIM - 0-10V Dimming ☐ EM - Emergency Battery Backup- 15W (100W and up / 120-277VAC models only) *Hoods not available for 200W and above.

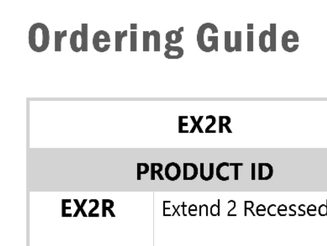
HAZ SENTINEL 5.25 SI-08130 · Specifications and data are subject to change without notice.

F5

Extend 2 | Recessed mount



Project ____
Type ____
Notes ____



SHIELDING DIRECT: SO Spotless Lens · ASO Asymmetric · BW Batwing · GZ Graze · WW Wall Wash

PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1000 lm/ft	9.8 W/ft	101 lm/W	SO
750 lm/ft	7.2 W/ft	103 lm/W	GZ
750 lm/ft	7.4 W/ft	101 lm/W	ASO
1000 lm/ft	9.7 W/ft	102 lm/W	BW
750 lm/ft	7.4 W/ft	101 lm/W	WW

*Please consult factory for custom lumen output and wattage.

IC (cULus Listed Type I.C.) · NSF · IK10 · IP66 · cULus

Ordering Guide

EX2R				
PRODUCT ID	NOM. LUM/FT	CRI	COLOR TEMP. (choose one)	SHIELDING DIRECT
EX2R Extend 2 Recessed	300 300 lm/ft - min 750 750 lm/ft - max for GZ, WW, ASO* 1000 1000 lm/ft - max	80 80 CRI 90 90 CRI	27 2700 K 30 3000 K 35 3500 K 40 4000 K 50 5000 K	SO spotless lens GZ graze WW wallwash ASO asymmetric BW batwing
Ships with 7/8" hole standard for power connection by others if no optional power feed is specified, see page 3 for details.	Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.			Choose only one of the options above;

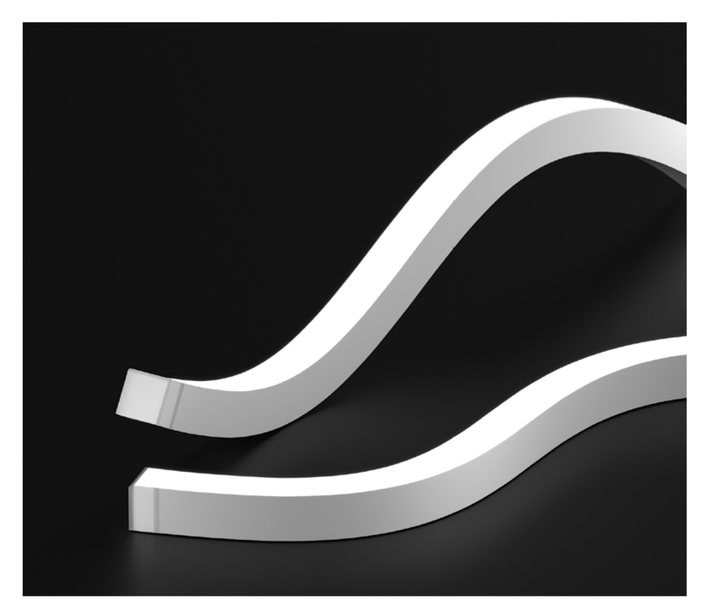
LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTING
2 2' 3 3' 4 4' 5 5' 6 6' 7 7' 8 8' 12 12' S(L) System Run	AP aluminum paint W white BLK black C custom	120 120 V 277 277 V 347 347 V* UNV universal	DP dimming (0-10V) 1% temp. range (-30°C - +40°C) DPX dimming (0-10V) 1%, extended temp. range (-40°C - +50°C) LT(#) Lutron* BI bi-level dimming O(#) other*	1 1 circuit 2 2 circuits +E(#) emergency circuit* +NL(#) night light circuit* +GTD(#) generator transfer device* **	DF flange D flangeless DS drywall spackle flange
Lengths are nominal. Exact lengths can be specified, please consult factory.		*Remote surge protection device only	*Please consult factory; see page 2.	*Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.	

BATTERY (OPTIONAL)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
B(#) battery pack (integral)* BR(#) battery pack (remote)**	+TF top feed* +EF end feed* +N natatorium finish	C custom
*Minimum 3ft; **Dry/Damp location only. Please consult factory.	7/8" diameter top power feed hole provided standard. See page 3 for more details. *Comes with liquid tight connector and 10ft of plenum rated power cable. Not available for 347 V.	Please specify

F6

Kurba Max Horizontal and Vertical | Field Bendable 24V System

optic arts by luminii



Features

Kurba Max is a dot free direct view, highly versatile, energy efficient and flexible LED strip suitable for outdoor wet locations capable of horizontal/side bends and vertical/top bends with a 8" bending radius. The silicone material offers excellent heat, weather, UV, and solvent resistance and has a special coating to repel dust and dirt accumulation.

Applications
Indoor/Outdoor dry & wet location

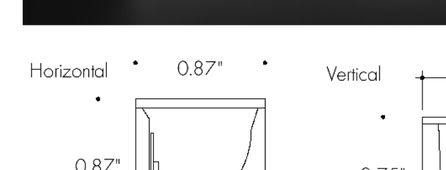
Materials
Silicone for red list approved, as well as heat, weather, UV, and solvent resistance

Dimming
Dimable down to 1%. Dot Free even illumination. Also available with Black Lens

Average Life (L70)
50,000 hours

Approvals
24VDC Class 2 wet listed, IP68

Warranty
3 years



Finish Options (see page 2 for additional information)
Base __ White

TITLE 24 JA8 COMPLIANT · RoHS · CE · cULus LISTED · DIM · Declare. · IP68

Technical Information

Bending Direction	Horizontal		Vertical	
Output	43SO	44HO	43SO	44HO
Light Output at 3000K, 80CRI	335 lm/ft	437 lm/ft	396 lm/ft	536 lm/ft
Average Power Consumption at 4'	5.03 W/ft	5.03 W/ft	5.03 W/ft	5.03 W/ft
Efficacy	67 lm/W	87 lm/W	79 lm/W	107 lm/W
Ordering Increment	1.97"	2.19"	1.97"	2.19"
Maximum Run Length (In Series)	19'	19'	19'	19'
Operating Temperature Range	-40°F to 113°F	-40°F to 113°F	-40°F to 113°F	-40°F to 113°F

CCT INFO / LUMEN MULTIPLIER
(ref. -3000K)

Bending Direction	Horizontal		Vertical	
CRI	80 CRI	90 CRI	80 CRI	90 CRI
2200K	0.95	0.74	0.94	0.75
2700K	0.99	0.81	0.99	0.81
3000K	1.00	0.80	1.00	0.80
3500K	1.01	0.80	1.01	0.80
4000K	1.08	0.82	1.08	0.82

Ordering Code

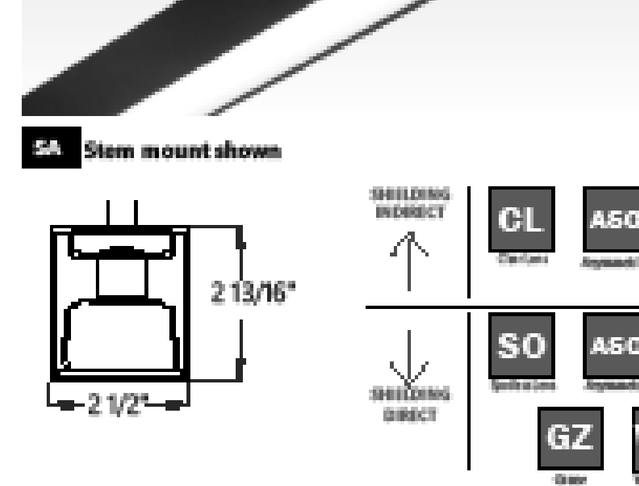
MODEL	BEND DIRECTION	LENGTH	OUTPUT¹	CCT	CRI	LENS	MOUNTING	FINISH	FEED POSITION LEFT	FEED POSITION RIGHT
KBX-W - Kurba Max Wet	HB - Horizontal Bending VB - Vertical Bending	SEE PCC CHART ON PAGES 7 - 8	43SO - Standard 44HO - High	22K - 2200K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	R80 - 80 CRI R90 - 90 CRI	SF - Silicone Frosted	NA - See Page 6 for orderable mounting accessories	WH - White	INJECTION MOLD IME - End Feed 1 IMB - Back Feed 1 IMSA - Side A Feed IMSB - Side B Feed² NPF - No Power Feed³	INJECTION MOLD IME - End Feed 1 IMB - Back Feed 1 IMSA - Side A Feed IMSB - Side B Feed² NPF - No Power Feed³

Feeds come with 118" wire leads

1 - Title 24 JA8 compliance achievable, contact factory for specific requests · 2 - IMSB - Side B Feed not available with HB - Horizontal Bending · 3 - NPF-NPF for Feed Position 1&2 is not a valid configuration option

F7

Extend 2 | Pendant mount



SA Stem mount shown



RS Rugged stem shown

Project ____
Type ____
Notes ____

SHIELDING INDIRECT: CL Clear lens · ASO Asymmetric · BW Batwing
SHIELDING DIRECT: SO Spotless Lens · ASO Asymmetric · BW Batwing · GZ Graze · WW Wall Wash

PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT UP	NOMINAL LUMEN OUTPUT DOWN	INPUT WATTS*	EFFICACY	SHIELDING
1200 lm/ft		8.5 W/ft	140 lm/W	CL
1200 lm/ft		9.6 W/ft	125 lm/W	BW
1200 lm/ft		9.1 W/ft	132 lm/W	ASO
	1000 lm/ft	9.8 W/ft	101 lm/W	SO
	750 lm/ft	7.2 W/ft	103 lm/W	GZ
	750 lm/ft	7.4 W/ft	101 lm/W	ASO
	1000 lm/ft	9.8 W/ft	102 lm/W	BW
	750 lm/ft	7.4 W/ft	101 lm/W	WW

*Please consult factory for custom lumen output and wattage.

NSF · IK10 · IP66 · cULus

Ordering Guide

PRODUCT ID	NOM. LUM/FT UP Skip selection for EX2PD	NOM. LUM/FT DOWN Skip selection for EX2PI	CRI	COLOR TEMP. (choose one)	SHIELDING UP Skip selection for EX2PD	SHIELDING DOWN Skip selection for EX2PI
EX2PDI Extend 2 Pendant Direct / Indirect EX2PD Extend 2 Pendant Direct EX2PI Extend 2 Pendant Indirect	300 300 lm/ft - min 1400 1400 lm/ft - max	300 300 lm/ft - min 750 750 lm/ft - max for GZ, WW, ASO* 1000 1000 lm/ft - max	80 80 CRI 90 90 CRI	27 2700 K 30 3000 K 35 3500 K 40 4000 K 50 5000 K	CL Clear lens BW Batwing ASO Asymmetric	SO Spotless lens GZ Graze WW Wallwash ASO Asymmetric BW Batwing
	Outputs between listed min and max are available. Consult factory for outputs outside of the listed range.	Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.				

LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2' * 3 3' 4 4' 5 5' 6 6' 7 7' 8 8' 12 12' S(L) System Run	AP aluminum paint W white BLK black C custom	120 120 V 277 277 V 347 347 V* ** UNV universal	DP dimming (0-10V) 1% temp. range -22°F - +104°F (-30°C - +40°C) DPX dimming (0-10V) 1%, extended temp. range -40°F - +122°F (-40°C - +50°C)** LT(#) Lutron* ** BI bi-level dimming** O(#) other* **	1 1 circuit 2 2 circuits +E(#) emergency circuit* +NL(#) night light circuit* +GTD(#) generator transfer device* **
Lengths are nominal. Exact lengths can be specified, please consult factory. * Not available with EX2PDI.		*Remote surge protection device only. **Not available with EX2PDI.	Integral drivers standard, remote drivers available for environments outside of driver operating temperature range or where fixture access may be limited. See page 2 for more details. * Please consult factory; see page 2. **Remote only with EX2PDI.	*Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
SA(#) drywall+stem length <36" (18" std.) SASL(#) drywall stem sloped ceiling* RS(#) rugged stem (for stem length above 36", or for any stem length in extreme conditions)	B(#) battery pack (integral)* *** BR(#) battery pack (remote)**	+EF end feed* +TF top feed* ** +N natatorium finish	C custom
See Mounting kit guide for full specification code. White canopy standard * Not recommended for outdoor applications.	*Minimum 3ft; **Dry or damp location. Please consult factory. ***Not available with EX2PDI.	* See page 3 for more details. ** Not available with EX2PDI or EX2PI.	Please specify

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CIVIL ENGINEER
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Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

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www.imegcorp.com

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Illinois Design Firm Registration #184008976-0014

REF. SCALE IN INCHES 0 1 2 3 · PROJECT #25005326.00

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

INTERIOR LIGHTING - CUT SHEETS

E-103

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

F8

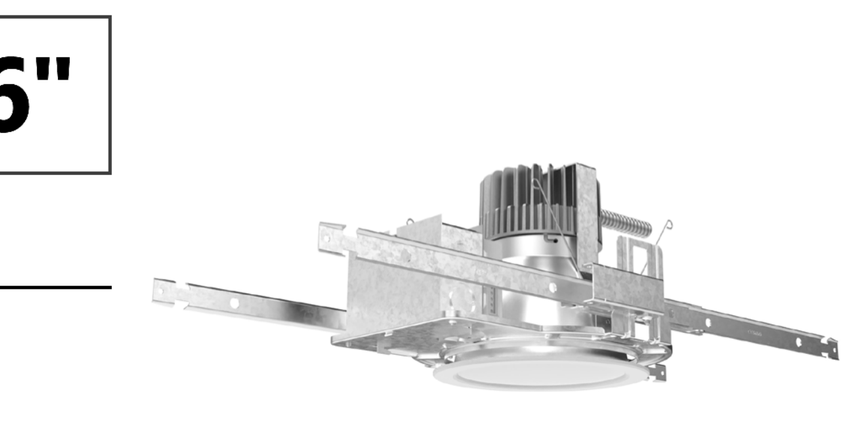
gotham | EVO®

Multiple Layers of Light

Luminaire Type:
Catalog Number:

BAA BABA RoHS COMPLIANT nLight

General Illumination Shower Downlight — 6"



OVERVIEW

Feature Set

- Wipe down flush or regressed lens
- NSF2 Splash/Non-food Zone
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam ellipse; 85 CRI typical, 90+ CRI optional
- IP66 rated room-side, Fixtures are wet location, covered ceiling
- Anti-microbial paint finish, optional
- Non-conductive dead-front trim
- Suitable for steam room application
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. UGR FAQ

Distribution

medium wide
1.0 S:MH

Superior Performance (Flush, Clear Lens)

Nominal Lumens	1000	1500	2000	2500	3000	3500	4000	4500
Delivered	857	1274	1729	2187	2624	3062	3499	3745
Wattage	9.6	14.7	19.7	24.7	29.5	33.8	39.0	48.6
Efficacy	89.3	86.7	87.8	88.5	88.9	90.6	89.7	52.0

*Lumen output for 80CRI - 3500K

COMPLIMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core: Downlight, Adjustable, Open Wallwash, Lensed Wallwash, Cylinder, Pinhole, Bevel, Hyperbolic

Healthcare: MRI, Surgical Suite, Patient Room

Special Applications: Dynamic, Food Service, Vandal/Tamper, Clean Room, Shower, Steam Room

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1 Acuity Way, Decatur, GA 30035 | P 800-705-SERV (7378) | gothamlighting.com
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F9



WDGE1 LED

Architectural Wall Sconce

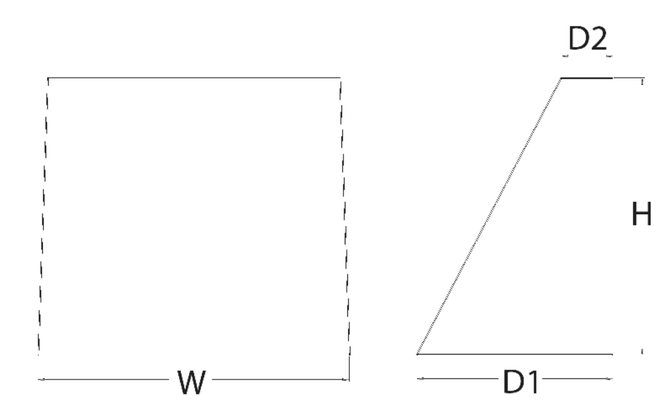
DLC LISTED PREMIUM, DLC LISTED, ida, TITLE 20, ds, BAA, BABA

Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1):	5.5"
Depth (D2):	1.5"
Height:	8"
Width:	9"
Weight: (without options)	9 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

ds design select — Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI) P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	6,000	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P0 P1 P2	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K[1] 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347[2]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[3] **Shipped separately** AWS 3/8inch Architectural wall spacer[4] PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.[4]

Options		Finish			
E4WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)[5]	DDBXD	Dark bronze	DDBTXD	Textured dark bronze
PE	Photocell, Button Type[6]	DBLXD	Black	DBLBXD	Textured black
DS	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)[7]	DNAXD	Natural aluminum	DNATXD	Textured natural aluminum
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD	White	DWHGXD	Textured white
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD	Sandstone	DSSTXD	Textured sandstone
DSLE	Dual Switching (1 Driver, 2 Light Engines)				
CCE	Coastal Construction[4]				

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EX1 & EX2

LITHONIA LIGHTING®

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for wet location areas requiring exit signs for AC only or battery back-up power that are subject to saturation with non-mechanically delivered water. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — White, compact, contemporary design. Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. Universal directional Chevron inserts are easily removed and reinserted. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources. Rugged, heavy-duty, polycarbonate clear housing lens. Housing also available in black or gray. Letters 6" high with 3/4" stroke, with 100 ft. viewing distance rating, based upon UL924 standards.

OPTICS — Low energy consumption — fewer than 5 watts. The typical life of the exit LED lamp is 5 years, based on 24/7 operation.

ELECTRICAL — Dual voltage input capacity (120/277V).

Battery: (EL Option) – Sealed, maintenance free nickel-cadmium battery delivers 90 minutes rated capacity. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Self-diagnostic testing (SD Option Only) for 30 seconds every 30 days, 30 minutes every 180 days and a 90-minute annual test. Diagnostic evaluation of LED light source, charging and battery condition.

INSTALLATION — Universal mounting canopy for top or end mount. Back mount standard for single face only. Junction box hole pattern for 4" octagon mounting. Flexible conduit entry.

LISTINGS — UL listed. Wet location listed. Standard cold temperature rating -4°F to 122°F (-20°C to 50°C). Meets UL 924, NFPA 101 (current Life Safety Code) and NFPA 70-NEC, Meets all applicable FCC Title 47, Part 15, Subpart B requirements.

WARRANTY — 5-year limited warranty. (Battery is prorated.) This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

Indura®

Wet Location
Exit Sign

WLTE

TITLE 20 LED



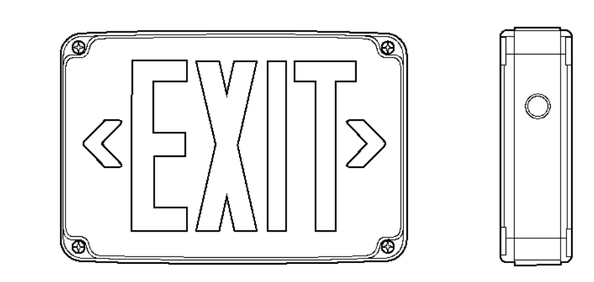
White

Gray

Specifications

Length: 12-1/2 (31.8)
Depth: 2-1/2 (6.4)
Height: 8-1/8 (20.6)
Weight: 4.1 lbs (1.9 kg)

All dimensions are inches (centimeters) unless otherwise indicated.



ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: WLTE W 1 R EL

WLTE Series	Housing color	Number of faces	Letter color	Operation	Options
WLTE	W White B Black GY Gray	1 Single face 2 Double face	R Red G Green	(blank) AC only EL Nickel-cadmium battery	TP Tamper-resistant screw hardware SD Self-diagnostics[1]

Accessories: *Order as separate catalog number.*[2]	
ELA WG1	Wireguard (back mount only)

Notes
1 Only available with EL option.
2 See spec sheet ELA-WG.

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920.887.7375

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CONSTRUCTION

Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

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www.imegcorp.com

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Illinois Design Firm Registration #184008976-0014

0 1 2 3
REF. SCALE IN INCHES PROJECT #25005326.00

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

INTERIOR LIGHTING - CUT SHEETS

E-104

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

LUMINAIRE SCHEDULE LEGEND

DESCRIPTION:

PAF - PAINT AFTER FABRICATION

CFSA - COLOR FINISH SELECTION BY ARCHITECT

CCFSA - CUSTOM COLOR FINISH SELECTED BY ARCHITECT

CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER

OPTICS:

BEAM ANGLE

##° or ## DEG - BEAM ANGLE IN DEGREES

VNSP - VERY NARROW SPOT
NSP - NARROW SPOT
SP - SPOT
WSP - WIDE SPOT
VWSP - VERY WIDE SPOT
NFL - NARROW FLOOD
FL - FLOOD
WFL - WIDE FLOOD
VWF - VERY WIDE FLOOD

MOUNTING (MTG):

CL - CEILING
CV - COVE
G - GROUND SURFACE
IG - IN GRADE
P - PERIMETER
PL - POLE
RE - RECESSED
SP - SUSPENDED
SU - SURFACE
UC - UNDER CABINET
WL - WALL
O - OTHER (SEE DESCRIPTION)

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS. REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS, AND DETAILS FOR LUMINAIRE MOUNTING LOCATIONS AND REQUIREMENTS.

MOUNTING HEIGHTS INDICATED IN THE SCHEDULE ARE TO THE BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.

DIMENSIONS:

L - LENGTH **W** - WIDTH **H** - HEIGHT **D** - DEPTH **Ø** - DIAMETER
VAR. - DIMENSION VARIES, SEE ARCHITECTURAL PLANS.

LIGHT SOURCE:

SOURCE TYPE
LED - INTEGRAL LIGHT EMITTING DIODE
DLED - DYNAMIC TUNABLE WHITE LED
RLED - RETROFIT LED LAMP
WLED - WARM DIM LED

CCT / CRI
INTERIOR CORRELATED COLOR TEMPERATURE [2700, 3000, 3500, 4000/4100]K, COLOR RENDERING INDEX (CRI) AT OR ABOVE [80, 85, 90], UNLESS NOTED OTHERWISE.
EXTERIOR CORRELATED COLOR TEMPERATURE [2700, 3000, 3500, 4000/4100]K, COLOR RENDERING INDEX (CRI) AT OR ABOVE [80, 85, 90], UNLESS NOTED OTHERWISE.

DELIVERED LUMENS:

LUMENS INDICATED ARE MINIMUM INITIAL DELIVERED LUMENS AT SPECIFIED CCT AND CRI.

WATTS:

MAXIMUM ANSI WATTS PER: (BLANK) = PER LUMINAIRE **FT** = LINEAR FOOT **LAMP** **POLE**

POWER SUPPLY:

PS TYPE
(BLANK) - INTEGRAL UNLESS NOTED OTHERWISE
REM - REMOTE
EM - EMERGENCY BATTERY

CONTROL METHOD
0-10V - 0 TO 10V DIMMING
10%, **1%**, **0.1%**, **0.01%** AS INDICATED
DALI - DIGITAL ADDRESSABLE LIGHTING INTERFACE (IEC 62386)
DMX - USITT DMX512-A (ANSI E1.11)
UPC - UNIVERSAL PHASE CONTROL DIMMING (PHASE ADAPTIVE)
SWC - SWITCHED CONTROL
O - OTHER (SEE DESCRIPTION)

COORDINATE LUMINAIRE DRIVER DIMMING METHODS AND PROTOCOLS WITH THE LIGHTING CONTROL SYSTEM AND CONTROL MANUFACTURER REQUIREMENTS TO ENSURE DIMMING COMPATIBILITY.

MANUFACTURER - SERIES:

1. **THE FIRST MANUFACTURER AND MODEL LISTED IS THE BASIS OF DESIGN.**
2. **THE MODEL NUMBER SHOWN SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE MODEL NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.**

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	OPTICS	MTG	DIMENSIONS	LIGHT SOURCE	DELIVERED LUMENS	WATTS	POWER SUPPLY	MANUFACTURER - SERIES	NOTES
EX1	SINGLE FACE EXIT SIGN, HIGH IMPACT POLYCARBONATE CONSTRUCTION. WET LOCATION LISTED. COORDINATE COLORS WITH ARCHITECT. VERIFY END, BACK, OR CEILING MOUNTING AND ARROWS WITH PLANS.		WL/CL	12 1/2"L X 2 1/2"W X 8 1/8"H	LED	0 lm	3 / FIX	277	LITHONIA WLTE	
EX2	DOUBLE FACE EXIT SIGN, HIGH IMPACT POLYCARBONATE CONSTRUCTION. WET LOCATION LISTED. COORDINATE COLORS WITH ARCHITECT. VERIFY END, BACK, OR CEILING MOUNTING AND ARROWS WITH PLANS.		WL/CL	12 1/2"L X 2 1/2"W X 8 1/8"H	LED	0 lm	3 / FIX	277	LITHONIA WLTE	
F1	LINEAR LED STRIP, FLAT DIFFUSE LENS. GENERAL DISTRIBUTION. COORDINATE FINISH WITH ARCHITECT. PROVIDE ALL NECESSARY MOUNTING HARDWARE.	DROP LENS	SP	48"L X 2 1/4"W X 3"H	LED	5,000 lm	48 / FIX	277 0-10V	LITHONIA ZL1D	
F2	SURFACE MOUNT NARROW SERIES LUMINAIRE. MARINE GRADE, EXTRUDED ALUMINUM HOUSING WITH CAST ALUMINUM ENDCAPS, 0.090" LINEAR RIBBER CLEAR LENS, WHITE POLYESTER COAT FINISH. INTEGRAL OCCUPANCY SENSOR.		SU	49 1/2"L X 6 1/2"W X 3 7/8"H	LED	7,200 lm	75 / FIX	277 0-10V	NEWSTAR VICTORY VIC4N	
F2A	SIMILAR TO F2, DIFFERENT MOUNTING.		WL	49 1/2"L X 6 1/2"W X 3 7/8"H	LED	7,200 lm	75 / FIX	277 0-10V	SIMILAR TO F2	
F3	SURFACE MOUNTED DIRECT LINEAR LUMINAIRE, EXTRUDED ALUMINUM HOUSING, CAST ALUMINUM END CAPS, EXTRUDED ACRYLIC LENS. COORDINATE COLOR AND FINISH WITH ARCHITECT.	BATWING	SU	120"L X 4 1/8"W X 5"H	LED	500 lm	5 / FT	277 0-10V	AXIS EXTEND 2 SURFACE EX2S	
F4	CIRCULAR HIGHBAY, COATED COPPER FREE ALUMINUM ALLOY HOUSING, GRAY NYLON CORROSION RESISTANT POWDER COATING. BUILT-IN HIGH MOUNT OCCUPANCY SENSOR. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED. COORDINATE WITH ARCHITECT FOR COLOR, FINISH, AND MOUNTING HEIGHTS.	TEMPERED GLASS LENS, 60 DEG OPTIC	SP	42 5/8"H, 14 1/8"Ø	LED	8,400 lm	60 / FIX	277	SOLAS RAY HJCR	
F5	RECESSED LINEAR. PROVIDE WITH INTEGRAL OCCUPANCY SENSOR. IK10 IMPACT RESISTANT RATING. IP66 LISTED. CONTINUOUS RUNS PER FLOOR PLAN.	FLUSH	RE	<varies>L X 4 1/4"W X 4 7/8"H	LED	1,000 lm	10 / FT	277 0-10V	AXIS EXTEND 2	
F6	LINEAR FLEXIBLE LED STRIP. WET LOCATION LISTED.		RE	<varies>L X 7/8"W X 7/8"H	LED	437 lm	5 / FT	277 0-10V	LUMINI KURBA MAX	
F7	PENDANT MOUNTED EXTERIOR LINEAR LED, WET LOCATION LISTED, DIRECT FLUSH LENS, CONTINUOUS RUN LENGTH AS SHOWN ON PLANS. COORDINATE FINISH WITH ARCHITECT. FIXTURE MOUNTED BETWEEN CANOPY PANELS, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING DETAILS.		RE	<varies>L X 2 1/2"W X 2 7/8"H	LED	300 lm	4 / FT	277 0-10V	AXIS EXTEND 2 PENDANT EX2PD	
F8	STANDARD 6" RECESSED DOWNLIGHT. WIDE OPTICS, WET SHOWER LENS.		RE	9 1/2"H, 6"Ø	LED	1,500 lm	15 / FIX	277	GOTHAM EVO6	
F9	EXTERIOR WALL MOUNTED LOW PROFILE BUILDING LUMINAIRE. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT. COORDINATE COLOR AND FINISH WITH ARCHITECT.	VISUAL COMFORT FORWARD THROW	WL	9"L X 5 1/2"W X 10 1/2"H	LED	2,000 lm	15 / FIX	277	LITHONIA WDGE 1	
P1	SQUARE LED AREA/FLOOD LUMINAIRE. FORWARD THROW MEDIUM DISTRIBUTION WITH BACKLIGHT SHIELD, SINGLE HEAD LUMINAIRE MOUNTED ON ROUND, TAPERED, ALUMINUM POLE AT 30' AFG (INCLUDING POLE AND FOUNDATION HEIGHT). INSTALL ON EXTENDED BASE FOUNDATION UNLESS NOTED OTHERWISE. PROVIDE WITH WIRELESS DIMMING.	FORWARD THROW MEDIUM	PL	22"L X 15"W X 5 1/2"H	LED	57,549 lm	462 / FIX	277	LITHONIA DSX2	
P2	SIMILAR TO P1, WITH TWO HEAD.		PL	22"L X 15"W X 5 1/2"H	LED	57,549 lm	924 / FIX	277	SIMILAR TO P1	
P3	SIMILAR TO P1, WITH THREE HEAD.		PL	22"L X 15"W X 5 1/2"H	LED	57,549 lm	1,386 / FIX	277	SIMILAR TO P1	
P4	SIMILAR TO P1, DIFFERENT OUTPUT AND OPTICS. PROVIDE TYPE II DISTRIBUTION. WITH BACKLIGHT SHIELDING. 20' AFG (INCLUDING POLE AND FOUNDATION HEIGHT). PROVIDE DIFFERENT MANUFACTURER SERIES TYPE. REFER TO FLOOR PLAN FOR NUMBER OF HEADS ON SAME POLE. PROVIDE FIXTURE WITH INTEGRAL HIGH/LOW OCCUPANCY SENSOR AND WIRELESS DIMMING.		PL	22"L X 15"W X 5 1/2"H	LED	9,651 lm	68 / FIX	277	LITHONIA DSX1	

LIGHTING SEQUENCE OF OPERATION

PLAN ID	LIGHTING SWITCHED
{LS1}	Sequence: Switched Lights are manually controlled in this space. ON: Lights turn on manually using a wall switch. OFF: Lights turn off manually using a wall switch. EMERGENCY: Night lights 'NL' are always ON and fed from emergency lighting inverter.
{LS2}	Sequence: Switched Lights are vacancy controlled in this space. ON: The lights turn on by vacancy sensor wall switch. OFF: After the space has been vacant for 15 minutes, the lights automatically turn off via vacancy sensor or by wall sensor switch. EMERGENCY: Night lights 'NL' are always ON and fed from emergency lighting inverter.
{LS3}	Sequence: Switched Lights are occupancy controlled in this space. ON: The lights turn on manually by wall switch or automatically by wall switch sensor. OFF: Lights turn off using wall switch or automatically after the space has been vacant for 15 minutes via wall switch sensor. EMERGENCY: 'SE' luminaires are fed from emergency lighting inverter circuit.
{LS4}	Sequence: Switched lights are occupancy controlled in this space. ON: The lights turn on automatically by integral fixture sensor. OFF: Lights turn off automatically by integral fixture sensor after the space has been vacant for 15 minutes. Key-switch shall provide manual off. EMERGENCY: 'SE' luminaires are fed from emergency lighting inverter circuit.
{LS5}	Sequence: Aquatic Center site lights are controlled by lighting control system relay panel. Lighting control system shall be provided with photocell input, relay panel on/off control, and wireless dimming. ON: The lights turn on automatically by lighting schedule. ADJUST: The light will be provided with wireless dimming nodes for manual adjustment at lighting control system. OFF: The lights turn off automatically by lighting schedule and photocell input.
{LS6}	Sequence: Exterior dimmable pole lighting is time scheduled and occupancy controlled by lighting control system. pole lights are provided with integral wireless occupancy sensors and wireless dimming. Each zone shall be scheduled separately and controlled together, with integral override sensors. Coordinate schedule with Owner prior to programming. ON: Pole lights are automatically turned on based on schedule via lighting control system. After scheduled hours, pole lights shall automatically turn on via lighting control system upon detection from integral fixture occupancy sensor and remain on for 15 minutes. ADJUST: Pole lights are provided with wireless dimming control and shall be programmed to lighting control system for future dimming control. Dimming set level shall be coordinated with Owner prior to programming controls. Integral fixture occupancy sensor shall dim lights to 50% when no activity has been detected for 15 minues. Lights shall raise to 100% when activity is present. OFF: Pole lights are automatically turned off based on schedule via lighting control system.
{LS7}	Sequence: Exterior dimmable building mounted luminaires are time scheduled and controlled by lighting control system. Fixtures are provided with integral dimming. Coordinate schedule with Owner prior to programming. ON: Luminaires are automatically turned on based on schedule via lighting control system. ADJUST: Luminaires are provided with dimming control and shall be programmed to lighting control system for future dimming control. Dimming set level shall be coordinated with Owner prior to programming controls. OFF: Luminaires are automatically turned off based on schedule via lighting control system. EMERGENCY (if applicable): When normal power fails, switched emergency 'SE' luminaires automatically turn on to 100% and bypass the local lighting controls. Emergency luminaires are fed from emergency lighting inverter circuit. Provide a shunt relay to allow for full control during normal operation.

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	**ACCESSORIES & OPTIONS**	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		
AMS-ASSEMBLED MOTOR STARTER		

ITEM	DISCONNECT TYPE & RATING			VOLTAGE	POLES	STARTER		ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
	TYPE	RATING	TRIP RATING			NEMA SIZE	TYPE			
MX-1		30		120	1	0	MX	NEMA 1	<varies>	
MX-CP-1		30		120	1	0	MX	NEMA 1		
MX-CP-2		30		120	1	0	MX	NEMA 1		
MX-CP-3		30		120	1	0	MX	NEMA 1		
MX-CU-2		30		120	1	0	MX	NEMA 3R		
MX-H		30		120	1	0	MX	NEMA 4X		
MX-WH-1		30		120	1	0	MX	NEMA 1	RP, 115 VOLT PILOT LIGHT CIRCUIT	
MX-WH-2		30		120	1	0	MX	NEMA 1	RP, 115 VOLT PILOT LIGHT CIRCUIT	
MX-WH-3		30		120	1	0	MX	NEMA 1		
DS-CU	NF	60		208	1			NEMA 1		

TRANSFORMER SCHEDULE

TYPE:		**ACCESSORIES & OPTIONS**
K1 - DOE 2016 DRY TYPE	AUT - AUTOTRANSFORMER	AL - ALUMINUM WINDINGS
K4 - K4 RATED DRY TYPE	BB - BUCK BOOST	CU - COPPER WINDINGS
K13 - K13 RATED DRY TYPE	LIQ - LIQUID FILLED	RS - EPOXY RESIN ENCAPSULATED
HM - HARMONIC MITIGATING		NV - NON-VENTILATED
PE - NEMA PREMIUM EFFICIENCY		NL - 200% RATED NEUTRAL
		EL - ELECTROSTATIC SHIELD
		TTM - TRANSFORMER TEMP MONITOR (REFER TO SPECIFCATION 26 09 13)

ITEM	KVA RATING	TYPE	ENCLOSURE	MAX. TEMP. RISE C.	PRIMARY		SECONDARY		REQUIRED ACCESSORIES & OPTIONS	COMMENTS
					VOLTS	PH	VOLTS	PH		
TR-75	75 kVA	K-1	NEMA 1	150	480	3	120/208	3	AL	

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
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ARCHITECT
LEGAT ARCHITECTS, INC.
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625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

NO.	DATE	DESCRIPTION
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

IMEG
263 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320
www.imegcorp.com

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Illinois Design Firm Registration #184008976-0014
0 1 2 3
REF. SCALE IN INCHES
PROJECT #25005326.00

WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	-
Date	02/06/2026

ELECTRICAL SCHEDULES

E-400

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WHEELING AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS

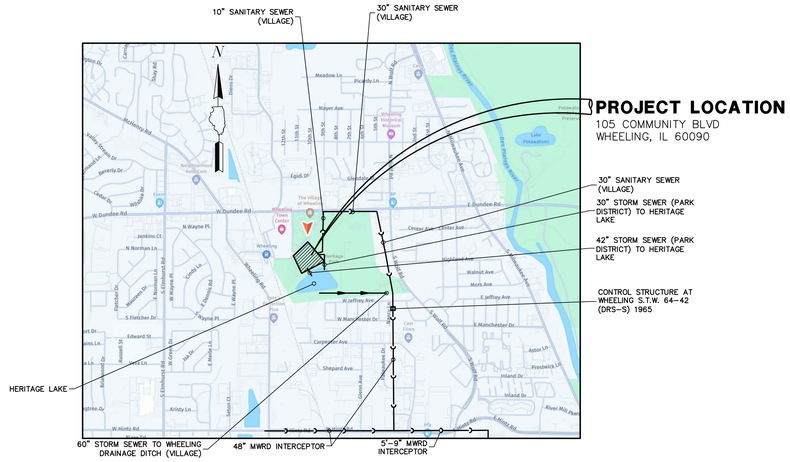
105 COMMUNITY BLVD
WHEELING, IL 60090

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REPRODUCIBILITY

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX	⊕	◑
BUSH/SHRUB	◌	●
CATCH BASIN	○ CO	C.O.
CLEANOUT	○	○
COMBINE SEWER LINE	——C——	——C——
CONTOUR	---708---	708
CULVERT	▱——▱	▶——
DITCH/SWALE	←-·-·-→	←-·-·-→
ELECTRIC LINE	——E——	——E——
ELECTRIC MANHOLE	Ⓔ	Ⓔ
FENCE	—X—X—X—	—X—X—X—
FIRE HYDRANT	♉	♉
FLARED END SECTION	▭	▬
GAS LINE	——G——	——G——
GAS MANHOLE	Ⓖ	Ⓖ
GAS VALVE	⧋	⧋
INLET	□	■
LIGHT POLE	☼	☼
OVERHEAD WIRES	——A——	——A——
POWER POLE	○	●
R.O.W LINE	———————	— — —
R.O.W MARKER	⧋	
SANITARY FORCEMAIN LINE	——CC——CC——	——CC——CC——
SANITARY SEWER LINE	——C——	——C——
SANITARY SEWER MANHOLE	Ⓢ	Ⓢ
SIGN		
SPOT ELEVATION	×850.00	×850.0
STORM SEWER LINE	——C——	——C——
STORM SEWER MANHOLE	Ⓢ	Ⓢ
TELEPHONE LINE	——T——	——T——
TELEPHONE MANHOLE	Ⓣ	Ⓣ
TELEPHONE BOX/PEDESTAL	⊞	⊞
TREE-CONIFEROUS (SIZE/TAG#)	345	345
TREE-DECIDUOUS (SIZE/TAG#)	12"	12"
VALVE BOX	⊗	⊗
VALVE VAULT	⊠	⊠
WATER VALVE	⊗	⊗
WATERMAIN LINE	——W——	——W——



LOCATION MAP
(Not to Scale)

J.U.L.I.E
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
CALL 811

811 Know what's **below.** **Call** before you dig.

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.

P (708) 588-4055
E WMOJobStart@mwrd.org

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

BENCHMARK:
ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING TRIMBLE VRS® NOW™ (NO PUBLISHED MONUMENT VERIFIED)
DATUM: NAVD88

SITE BENCHMARK:
CUT "X" IN SIDEWALK APPROX 190' EAST OF THE FARTHEST SOUTH BUILDING CORNER OF THE REC. CENTER AND 20' NORTHWEST OF LIGHT POLE AT THE SOUTH END OF THE EAST ISLAND BETWEEN THE REC. CENTER AND POOL BUILDING. ALSO KNOWN AS CP#5.
ELEVATION: 647.07
DATUM: NAVD88

CONTRACTOR IS RESPONSIBLE TO VERIFY CONTROL AND BENCHMARKS PRIOR TO PROCEEDING WITH CONSTRUCTION.
REPORT ALL DISCREPANCIES TO GHA.

CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	1992982.59	1095891.70	645.05	CP1-XSW
2	1993313.48	1095440.82	647.40	CP2-XSW
3	1993324.42	1095758.74	644.69	CP3-MAG-PKG
4	1992976.18	1095447.34	645.55	CP4-MAG-PKG
5	1992790.14	1095380.26	647.04	CP5-XSW
8	1993332.82	1095037.20	644.65	CP8-MAG-PKG
9	1992397.06	1094993.96	648.16	CP9-MAG-PKG

DRAINAGE STATEMENT

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF THE SURFACE WATERS WILL NOT BE CHANGED BY CONSTRUCTION OF THIS SUBDIVISION (DEVELOPMENT), OR ON THIS SITE, OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE PROPERTY OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF CONSTRUCTION OF THE SUBDIVISION (DEVELOPMENT), OR THIS SITE.

SHEET INDEX

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C02 EXISTING CONDITIONS / DEMOLITION PLAN - OVERALL
C03 EXISTING CONDITIONS / DEMOLITION PLAN
C04 EXISTING CONDITIONS / DEMOLITION PLAN
C05 EXISTING CONDITIONS / DEMOLITION PLAN
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C18 GRADING PLAN
C19 GRADING PLAN
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C22 SOIL EROSION AND SEDIMENT CONTROL PLAN - OVERALL
C23 SOIL EROSION AND SEDIMENT CONTROL PLAN
C24 SOIL EROSION AND SEDIMENT CONTROL PLAN
C25 SOIL EROSION AND SEDIMENT CONTROL PLAN
C26 STORMWATER POLLUTION PREVENTION PLAN NOTES
C27 SOIL EROSION AND SEDIMENT CONTROL DETAILS
C28 GENERAL NOTES
C29 MWRD GENERAL NOTES
C30 VILLAGE OF WHEELING DETAILS
C31 VILLAGE OF WHEELING DETAILS
C32 VILLAGE OF WHEELING DETAILS
C33 VILLAGE OF WHEELING DETAILS
C34 DETAILS
C35 EXISTING DRAINAGE EXHIBIT
C36 PROPOSED DRAINAGE EXHIBIT

TOPOGRAPHIC SURVEY BY:
GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PROFESSIONAL DESIGN FIRM LICENSE:
GEWALT HAMILTON ASSOCIATES, INC.
DESIGN FIRM - LAND SURVEYOR/PROF ENG
LICENSE NUMBER: 184.000922-0010

DONALD E. MATTHEWS 062-048084 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

PLANS PREPARED FOR:
WHEELING PARK DISTRICT
100 COMMUNITY BLVD
WHEELING, ILLINOIS 60090
TELEPHONE: 847-465-3333

COORDINATING/PERMITTING AGENCIES:

VILLAGE WHEELING	1-847-459-2600
METROPOLITAN WATER RECLAMATION DISTRICT LOCAL SEWER SECTION MWRD FIELD OFFICE	1-312-751-5600 1-708-588-4055
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)	1-217-782-0610
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL SANITARY SEWER PERMIT	1-217-782-2027
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES	1-217-782-3397

SIGNED: _____ P.E.
Donald E. Matthews
DATE: 02-26-2026
ILLINOIS LICENSE NO.: 062-048084
EXPIRATION DATE: NOVEMBER 30, 2027

NOT FOR CONSTRUCTION

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AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

TITLE SHEET

C01

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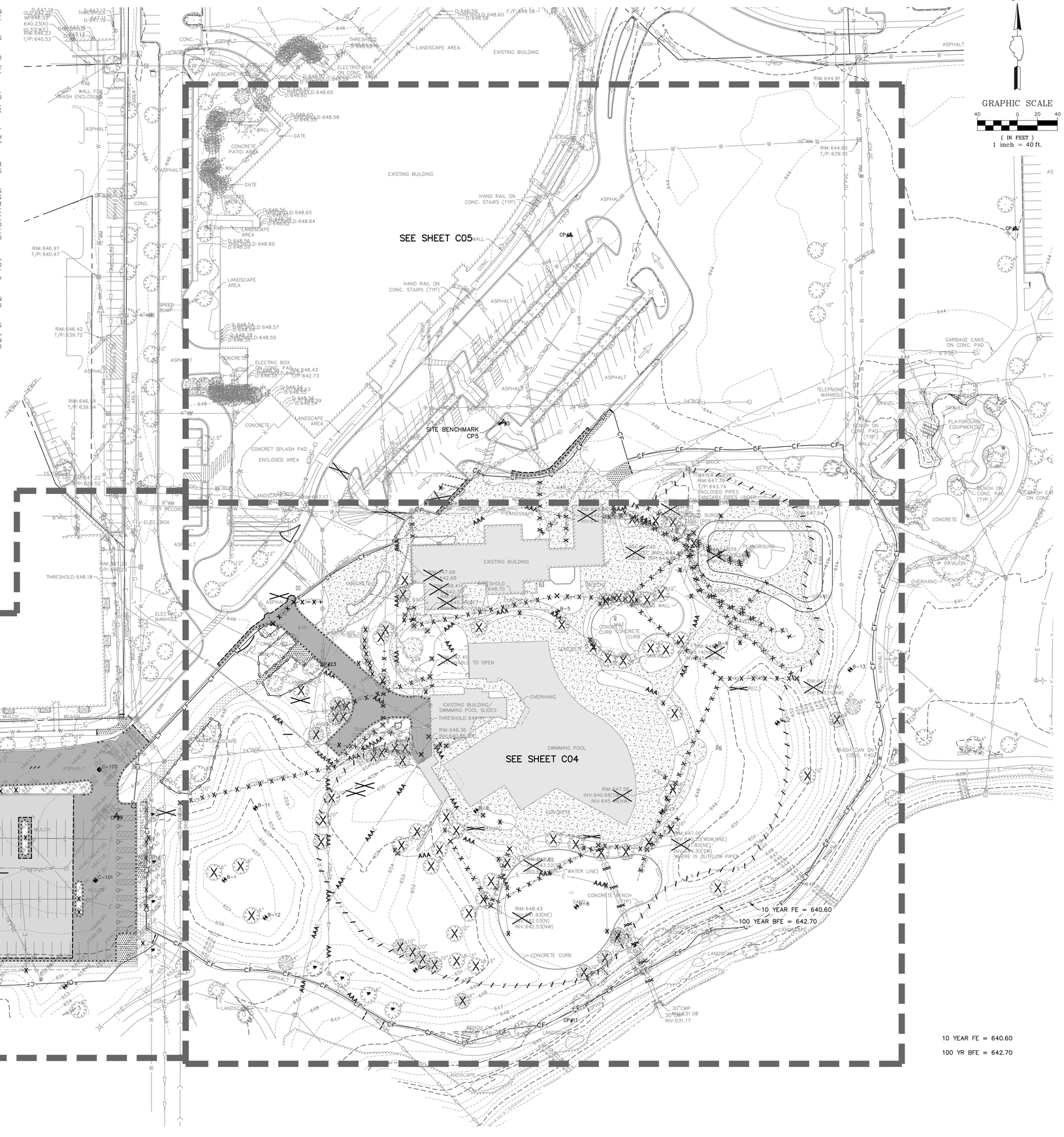
File Location: G:\58005987.151 Wheeling PD Aquatic Cen\58987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pwhalek / PLOT DATE: 2/26/2026 3:44 PM BY: Brian Spencer

EXISTING CONDITION AND DEMOLITION NOTES

1. PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
2. PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION AND ROOT PRUNING AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FENCING THE ACTIVE WORK ZONE FROM THE PUBLIC AND PROTECTING THE PUBLIC FROM ANY CONSTRUCTION RELATED HAZARDS. AT A MINIMUM, ALL EXCAVATION, DEMOLITION AREAS AND OTHER AREAS POTENTIALLY HAZARDOUS TO PEDESTRIANS AND VEHICLES MUST BE PROTECTED.
4. AT ALL TIMES, MAIN DRIVE, LOADING DOCKS, AND DUMPSTER AREAS SHALL REMAIN OPEN AND UNOBSTRUCTED. TEMPORARY SHUT DOWN OF ONE TRAFFIC LANE AT A TIME WILL BE PERMITTED FOR SHORT TERM PERIODS AND SHALL BE COORDINATED WITH APPOINTED PROPERTY OWNER CONSTRUCTION STAFF. SHORT TERM CLOSINGS SHALL BE COMPLETED WITHIN THE WORK DAY AND RESTORED TO UNOBSTRUCTED ACCESS BY THE CLOSE OF THE WORK DAY.
5. TEMPORARY STONE OR ASPHALT PATHWAYS SHALL BE PROVIDED AS NEEDED THROUGHOUT THE COURSE OF CONSTRUCTION TO FACILITATE SAFE PEDESTRIAN AND VEHICULAR MOVEMENT. THE LONGITUDINAL SLOPE OF SUCH PATHS SHALL NOT EXCEED 5% AND CROSS SLOPES SHALL NOT EXCEED 2%. PROVIDE 6" CA-6 BASE AND 2" SURFACE ASPHALT.
6. THE EXISTING AMPHITHEATER FACILITY TO THE SOUTHWEST WILL REMAIN OPEN AND ACTIVELY USED. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL PLANS AND COORDINATE WITH UTILITY COMPANIES TO ENSURE CONTINUOUS UTILITY SERVICES DURING DEMOLITION AND TRANSITIONING OF SERVICES.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REUSE, AND DISPOSAL OF ALL EXISTING IMPROVEMENTS ONSITE NECESSARY TO COMPLETE THE JOB. THESE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO, EXISTING PAVEMENTS, CURBS, SIDEWALKS, UTILITIES, LIGHTING, LIGHT BASES, MANHOLES, FENCES, FOUNDATIONS, AND OTHER STRUCTURES WITHIN THE WORK AREA. EXCAVATE AND GRADE TO PROPOSED PAVEMENT AND BUILDING SUBBASE GRADES. (REFER TO FOUNDATION PLANS FOR PROPOSED BUILDING SUBBASE GRADES.) THESE ITEMS SHALL BE COMPLETELY REMOVED AND LEGALLY DISPOSED OF OFFSITE. EXISTING CONCRETE TO BE CRUSHED AND REUSED ON-SITE FOR FILL IN SELECT AREAS. DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE CRUSHED CONCRETE AND GRADATION PER SPEC. CRUSHED CONCRETE TO MEET IDOT SPECIFICATION OR APPROVED EQUAL. CRUSHED CONCRETE SHALL NOT BE USED FOR SELECT FILL FOR PIPE BEDDING OR BUILDING FOUNDATION.
8. REMOVE OR ABANDON EXISTING UTILITIES AS SHOWN. UTILITIES THAT ARE REMOVED, UNLESS OTHERWISE NOTED, SHALL BE BACKFILLED WITH CA-6 CRUSHED STONE IN LIFTS OF 8" OR LESS AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY. UTILITIES TO BE ABANDONED SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF 2 FEET LONG NON-SHRINK CONCRETE/MORTAR PLUGS. MANHOLE STRUCTURES TO BE ABANDONED SHALL HAVE THE TOP SECTION REMOVED, SEWERS BULKHEADED WITH CONCRETE AND BACKFILLED WITH CA-6 CRUSHED STONE.
9. TEMPORARILY REMOVE, STORE AND PROTECT SIGNS AND POSTS WITHIN AFFECTED WORK ZONE FOR REINSTALLATION AND TEMPORARILY REMOVE, STORE AND PROTECT ALL WEST PARKING LOT LIGHT POLES WITHIN THE AFFECTED WORK ZONE FOR REINSTALLATION. COORDINATE ONSITE STORAGE WITH PROPERTY OWNER.
10. THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
11. SEE GEOTECH REPORT FOR BORING AND CORE NOTES.
12. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.





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GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING CONDITIONS / DEMOLITION PLAN - OVERALL

C02

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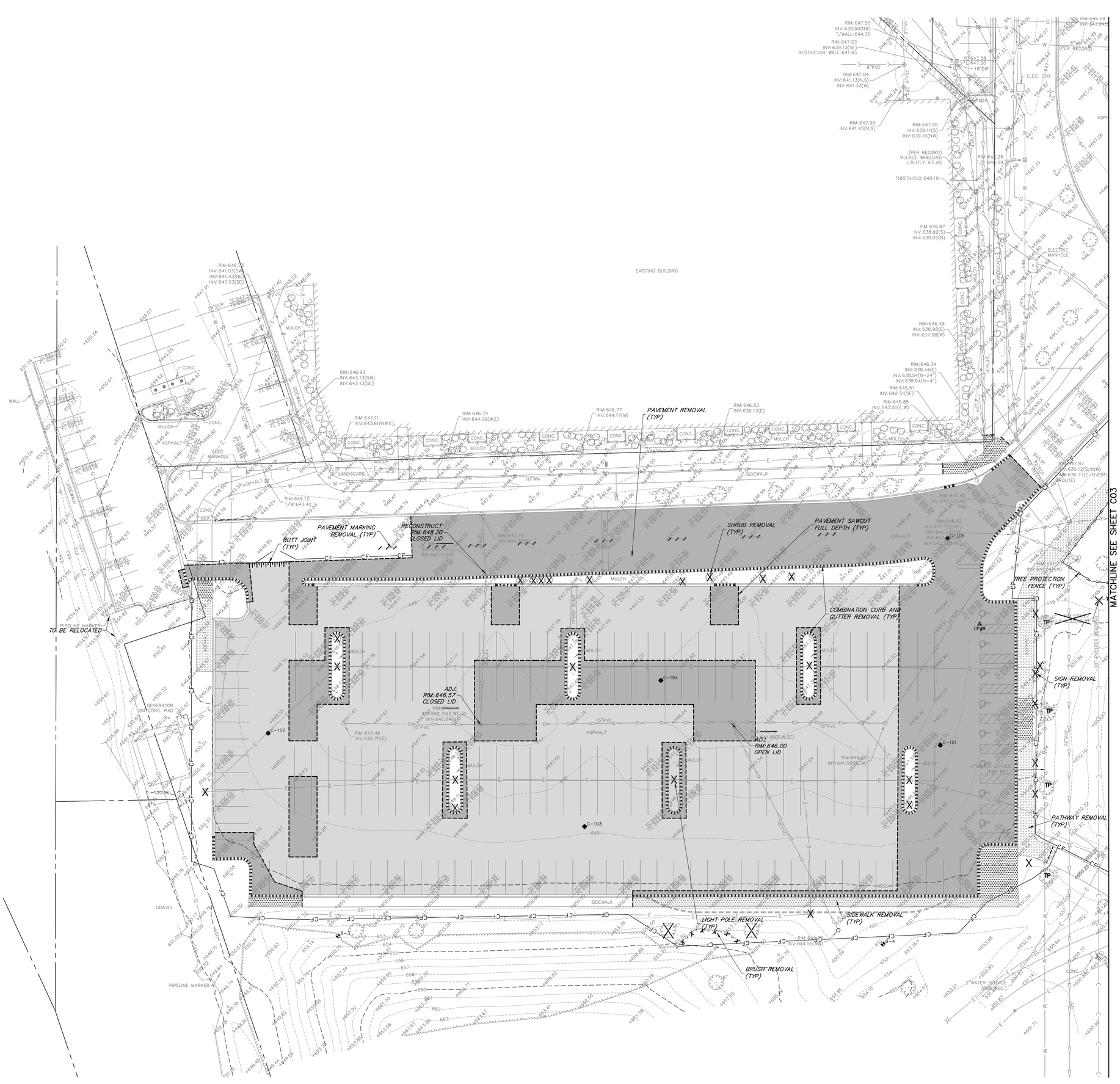

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

REMOVAL LEGEND

- BUILDING/POOL REMOVAL
- PAVEMENT REMOVAL FULL DEPTH
- HMA PAVEMENT REMOVAL VARIABLE THICKNESS, REFER TO GEOTECH
- CONCRETE REMOVAL
- SIDEWALK REMOVAL
- ASPHALT PATHWAY REMOVAL
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- SIGN REMOVAL
- LIGHT POLE REMOVAL
- TREE/SHRUB REMOVAL
- TREE TO BE TRANSPLANTED SEE LANDSCAPE ARCHITECT PLANS
- TREE PROTECTION FENCE
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- STRUCTURE REMOVAL
- FENCE REMOVAL
- PAVEMENT SAWCUT FULL DEPTH
- BUTT JOINT
- PERIMETER EROSION BARRIER
- 10 YEAR FE: 640.6
- BFE: 642.7
- BORING LOCATION
- CORE LOCATION
- CONTROL POINT
- CONSTRUCTION FENCING

NOTE:
SEE SHEET C02 FOR EXISTING CONDITIONS AND DEMOLITION NOTES

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING CONDITIONS / DEMOLITION PLAN

C03

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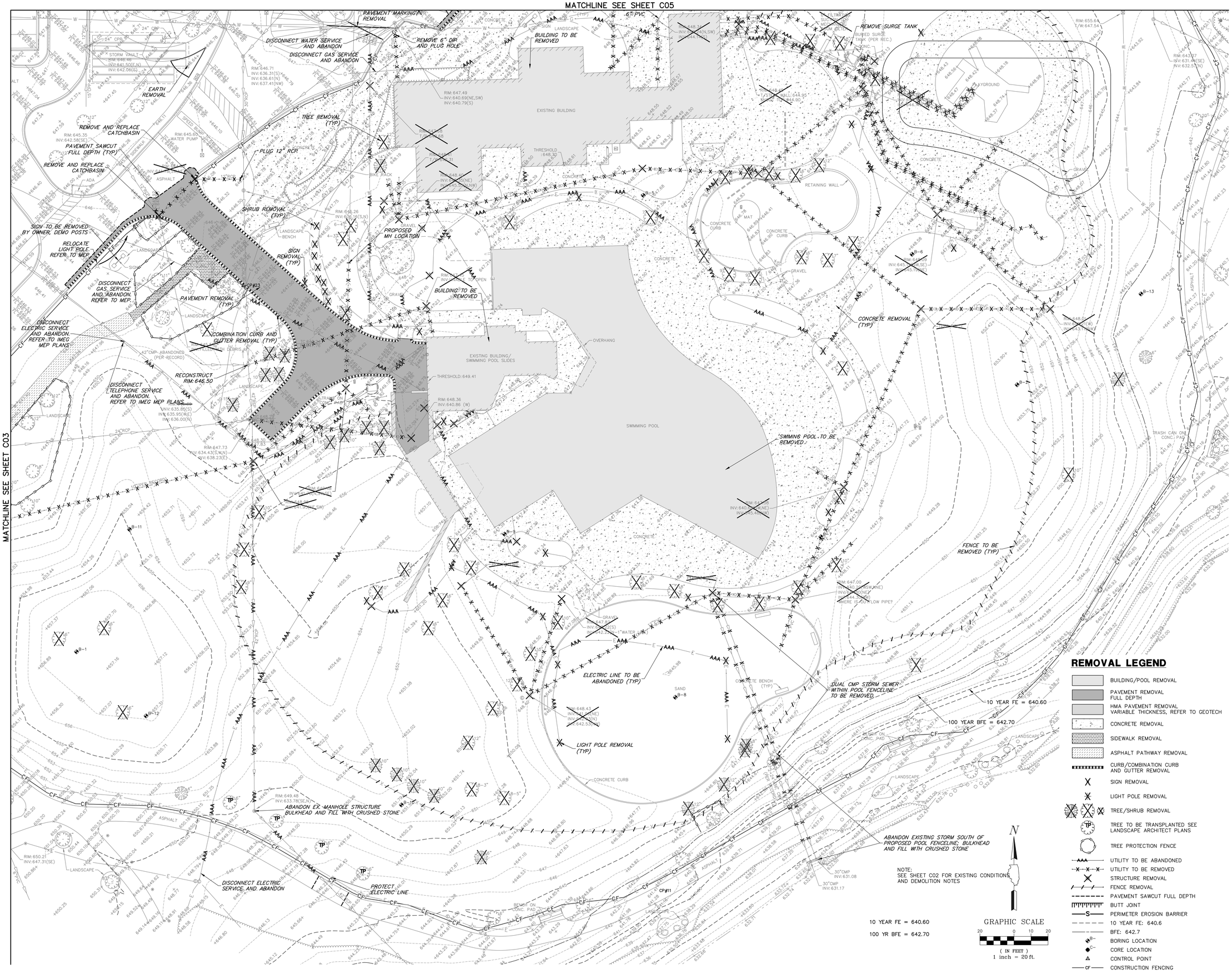

REMOVAL LEGEND

- BUILDING/POOL REMOVAL
- PAVEMENT REMOVAL FULL DEPTH
- HMA PAVEMENT REMOVAL VARIABLE THICKNESS, REFER TO GEOTECH
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- UTILITY TO BE REMOVED
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- PAVEMENT SAWCUT FULL DEPTH
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Date	02-26-2026

EXISTING CONDITIONS / DEMOLITION PLAN

C04

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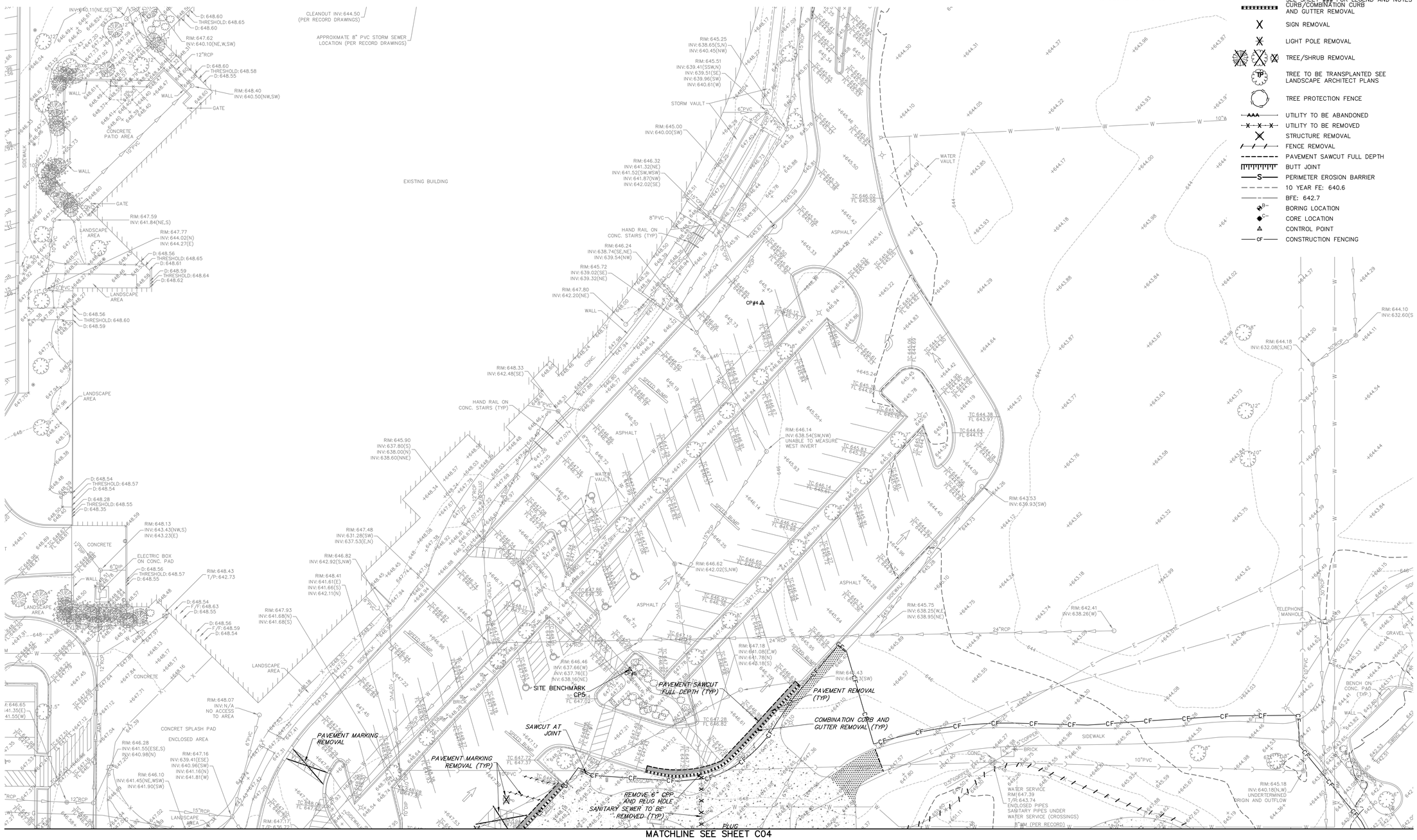

REMOVAL LEGEND

- BUILDING/POOL REMOVAL
- PAVEMENT REMOVAL FULL DEPTH
- HMA PAVEMENT REMOVAL VARIABLE THICKNESS, REFER TO GEOTECH
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GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

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Project Number	25070
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EXISTING CONDITIONS / DEMOLITION PLAN

C05

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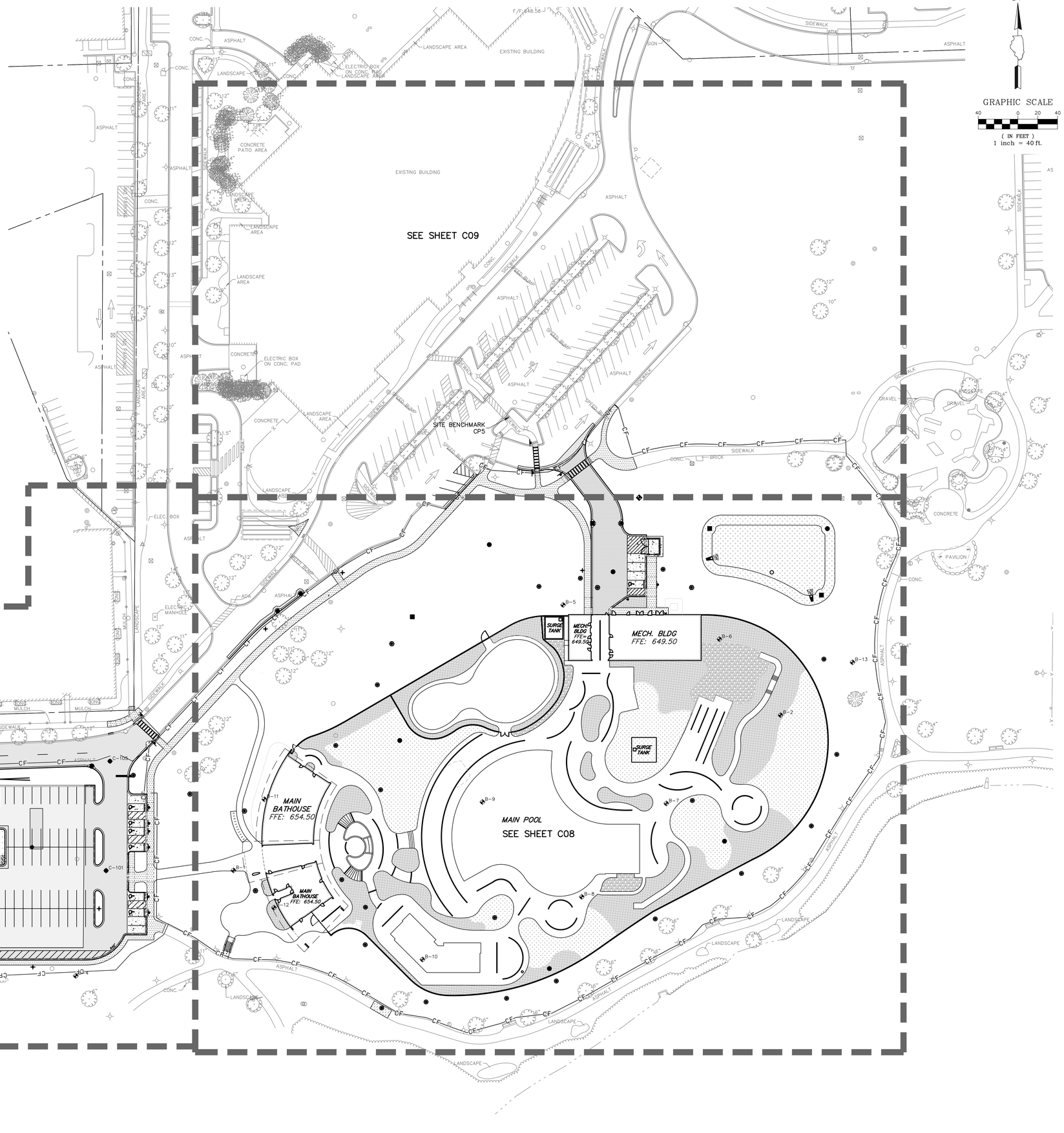
GEOMETRIC AND PAVING PLAN

1. ALL PAVEMENT DIMENSIONS ARE TO EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. E=EDGE OF PAVEMENT, B=BACK OF CURB, F=FACE OF CURB. RADII DIMENSIONS ARE TO EDGE OF PAVEMENT.
2. INSTALL ALL CURB AND SIDEWALK AS SHOWN. NOTE SOME CURBS REQUIRE REVERSE PITCH GUTTER. DOWEL NEW SIDEWALK AND CURB TO EXISTING AND PROPOSED CURBS PER GENERAL NOTES. WHEN CONSTRUCTING A CARRIAGE WALK, THE PROPOSED SIDEWALK CONTRACTION AND EXPANSION JOINTS SHALL ALIGN WITH EXISTING CURB JOINTS.
3. PROVIDE 1.90% CROSS SLOPE AND 4.5% MAXIMUM LONGITUDINAL SLOPE ON ALL SIDEWALKS AND PEDESTRIAN PATH WAYS UNLESS OTHERWISE INDICATED. ILLINOIS ACCESSIBILITY CODE REQUIRES A MAXIMUM CONSTRUCTED CROSS SLOPE OF 2.00% AND LONGITUDINAL SLOPE OF 5.00%.
4. INSTALL BITUMINOUS PAVEMENT AS SHOWN. REFER TO DETAIL SHEET FOR SPECIFIC PAVEMENT SECTIONS AND GENERAL NOTE SHEET FOR CONSTRUCTION, TESTING AND COMPACTION REQUIREMENTS.
5. INSTALL PCC PAVEMENT AS SHOWN. REFER TO DETAIL SHEET FOR SPECIFIC PAVEMENT SECTION AND GENERAL NOTES FOR CONSTRUCTION, TESTING AND COMPACTION REQUIREMENTS.
6. ALL PARKING LOT STALL MARKINGS SHALL BE 4" YELLOW PAINT AND ALL OTHER PARKING LOT PAVEMENT MARKINGS SHALL BE PAINT, COLOR AS NOTED, IN ACCORDANCE WITH SECTION 780 OF THE IDOT STANDARD SPECIFICATIONS. (TWO SINGLE APPLICATIONS, 16 MILS EACH REQUIRED). SITE PAVEMENT MARKING SHALL BE COORDINATED WITH SITE ENGINEER. CONTRACTOR SHALL NOTIFY SITE ENGINEER 48 HRS PRIOR TO INSTALLING PAVEMENT MARKING.
7. FOR HANDICAPPED STALL MARKINGS, REFER TO HANDICAPPED PARKING STALL AND SIGN DIMENSIONING DETAIL.
8. INSTALL NEW SIGNS AND HANDICAPPED PARKING SIGNS USING 2" GALVANIZED SQUARE TUBE POST AND TELESCOPING POST SLEEVE PER IDOT STANDARD.
9. INSTALL RETAINING WALL AS SHOWN. REFER TO DETAIL SHEET FOR MATERIAL AND DESIGN REQUIREMENTS.
10. INSTALL TRANSFORMER PAD AS SHOWN. PAD SHALL BE SET 6" ABOVE FINISHED GRADE. REFER TO MEP PLANS FOR FINAL PAD SIZE AND DESIGN REQUIREMENTS.
11. CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL SEED AND BLANKET AS NECESSARY TO MEET SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS. REFER TO NOTES AND DETAILS THROUGHOUT THE PLAN SET FOR SPECIFIC MATERIAL REQUIREMENTS.
12. FOR FINAL RESTORATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DISTURBED TURF AREAS AND PROPOSED TURF AREAS AS FOLLOWS, REFER TO LANDSCAPE PLANS FOR ALL TOPSOIL AND RESTORATION SPECIFICATIONS.
13. ONCE RESTORATION HAS BEEN COMPLETED, THE CONTRACTOR SHALL REMOVE EROSION CONTROL DEVICES. SILT FENCE TRENCHES SHALL BE BACKFILLED AND RESTORED IN KIND. STORM STRUCTURES SHALL BE CLEANED OF DEBRIS.
14. INSTALL PARKING LOT AND CONCRETE PAVEMENT AS SHOWN. WHERE HMA PAVEMENT REMOVAL AND REPLACEMENT IS INDICATED, THE EXISTING STONE BASE SHALL BE REGRADED TO MEET THE 4" ASPHALT DEPTH AND RECOMPACTED AND PROOF ROLLED PRIOR TO REPAVING.
15. ALL 8" PCC PAVEMENT AND B6.12 CURB AND GUTTER CONTRACTION JOINTS SHALL BE SAWCUT A MINIMUM OF 2" DEEP WITHIN 12 HOURS OF POUR.
16. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET



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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GEOMETRIC PLAN - OVERALL

C06

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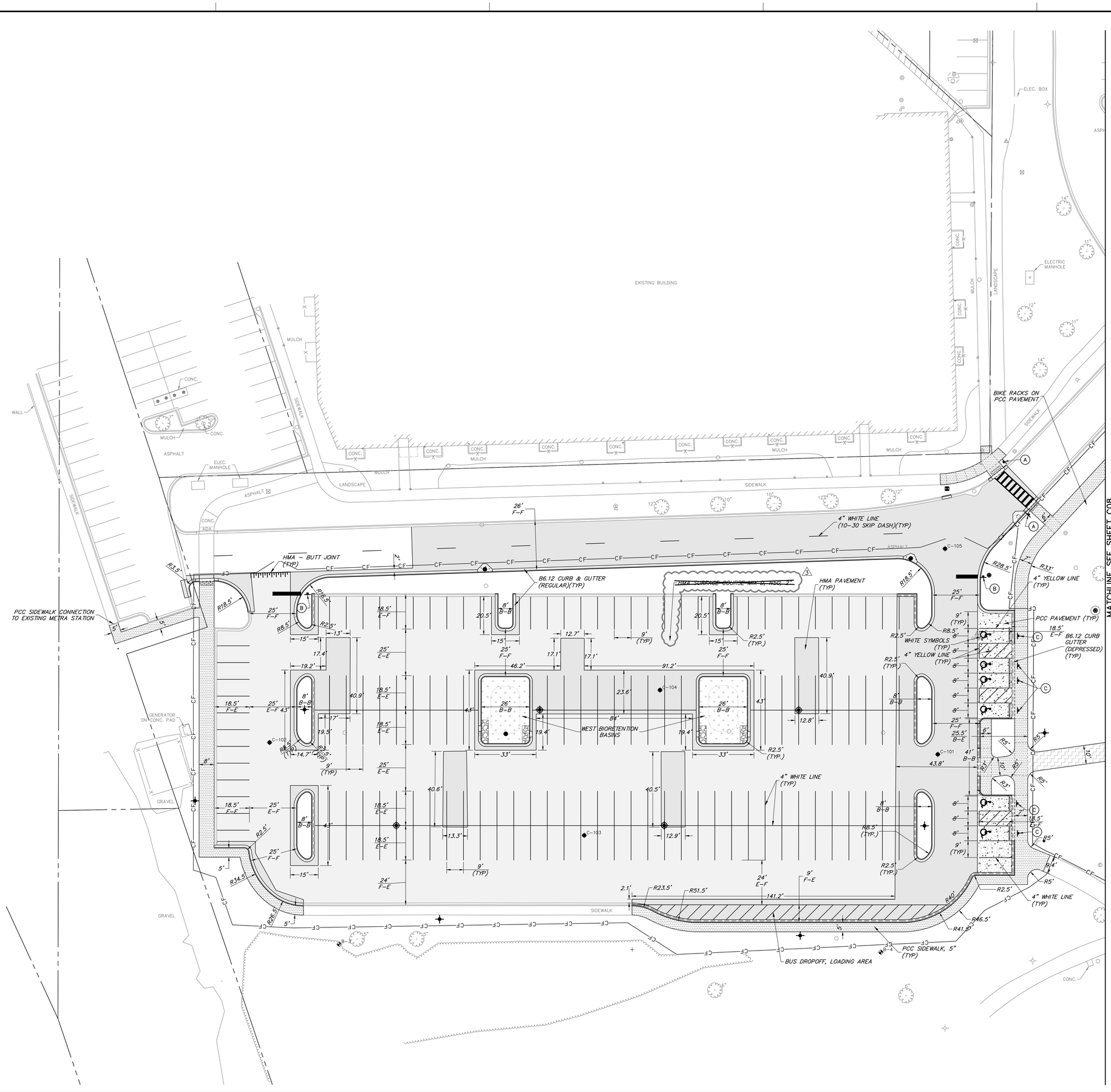

N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

PROPOSED LEGEND

- NORMAL DUTY HMA PAVEMENT
  1.75" HMA SURFACE COURSE, MIX "D", N50
  2.25" HMA BINDER COURSE, IL-19.0, N50
  10" CA-6 CRUSHED STONE
- HEAVY DUTY HMA PAVEMENT
  2" HMA SURFACE COURSE, MIX "D", N50
  4" HMA BINDER COURSE, IL-19.0, N50
  8" CA-6 CRUSHED STONE
- HMA PAVEMENT REMOVAL & REPLACEMENT
  1.75" HMA SURFACE COURSE, MIX "D", N50
  2.25" HMA BINDER COURSE, IL-19.0, N50
  REGRADE EX. AGGREGATE BASE AS NEEDED
- PCC PAVEMENT
  8" PCC CONCRETE
  6" CA-6 CRUSHED STONE
- PCC SIDEWALK (WITH WELDED WIRE FABRIC)
  5" PCC CONCRETE
  W4.0xW4.0 (WWF)
  8" CA-6 CRUSHED STONE
- PCC SIDEWALK
  5" PCC CONCRETE
  4" CA-6 CRUSHED STONE
- STONE RIP RAP, CLASS RR3
- BIORETENTION BASINS (SEE PLANTING PLAN FOR DETAILS)
- PLANTING AREA (SEE PLANTING PLAN FOR DETAILS)
- TURF GRASS AREA (SEE PLANTING PLAN FOR DETAILS)
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- HMA - BUTT JOINT
- FENCE
- RETAINING WALLS
- CONTROL POINT

PARKING COUNTS

EXISTING PARKING SPACES

ACCESSIBLE PARKING SPACES	8
REGULAR PARKING SPACES	197
TOTAL EXISTING PARKING SPACES	205

PROPOSED PARKING SPACES

ACCESSIBLE PARKING SPACES	7
REGULAR PARKING SPACES	185
TOTAL PROPOSED PARKING SPACES*	192

*INCLUDES (3) REGULAR AND (1) ACCESSIBLE SPACE FROM MAINTENANCE DRIVE. REFERENCE SHEET C08
**REQUIRED PARKING CALCULATED BY OVERALL PROPERTY PER ORD 2917-5118. SEE SEPARATE PARKING EXHIBITS FOR DETAILS. SUMMARY BELOW.

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NOTE: SEE SHEET C06 FOR GEOMETRIC AND PAVING PLAN NOTES

SIGN LEGEND:

Ⓐ YIELD HERE TO PEDESTRIANS SIGN

Ⓑ STOP SIGN

Ⓒ RESERVED ADA PARKING SIGN

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GEOMETRIC PLAN

C07

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MATCHLINE SEE SHEET C09

MATCHLINE SEE SHEET C07

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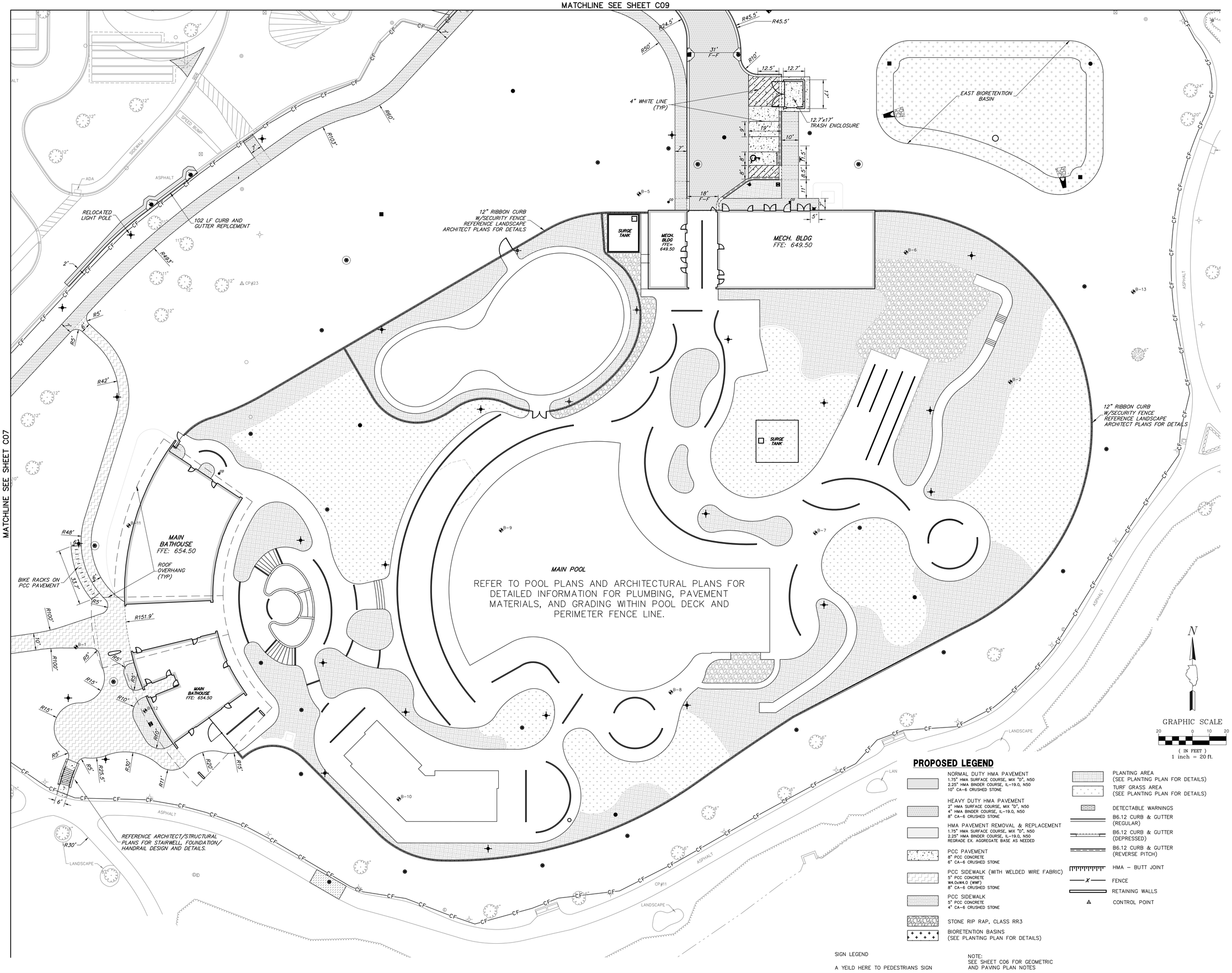

PROPOSED LEGEND

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- HEAVY DUTY HMA PAVEMENT — 2" HMA SURFACE COURSE, MIX "D", N50; 4" HMA BINDER COURSE, IL-19.0, N50; 8" CA-6 CRUSHED STONE
- HMA PAVEMENT REMOVAL & REPLACEMENT — 1.75" HMA SURFACE COURSE, MIX "D", N50; 2.25" HMA BINDER COURSE, IL-19.0, N50; REGRADE EX. AGGREGATE BASE AS NEEDED
- PCC PAVEMENT — 8" PCC CONCRETE; 6" CA-6 CRUSHED STONE
- PCC SIDEWALK (WITH WELDED WIRE FABRIC) — 5" PCC CONCRETE; W4.0xW4.0 (WWF); 8" CA-6 CRUSHED STONE
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- STONE RIP RAP, CLASS RR3
- BIORETENTION BASINS (SEE PLANTING PLAN FOR DETAILS)
- PLANTING AREA (SEE PLANTING PLAN FOR DETAILS)
- TURF GRASS AREA (SEE PLANTING PLAN FOR DETAILS)
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- HMA – BUTT JOINT
- FENCE
- RETAINING WALLS
- CONTROL POINT

SIGN LEGEND

A YEILD HERE TO PEDESTRIANS SIGN

NOTE:
SEE SHEET C06 FOR GEOMETRIC AND PAVING PLAN NOTES

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GEOMETRIC PLAN

C08

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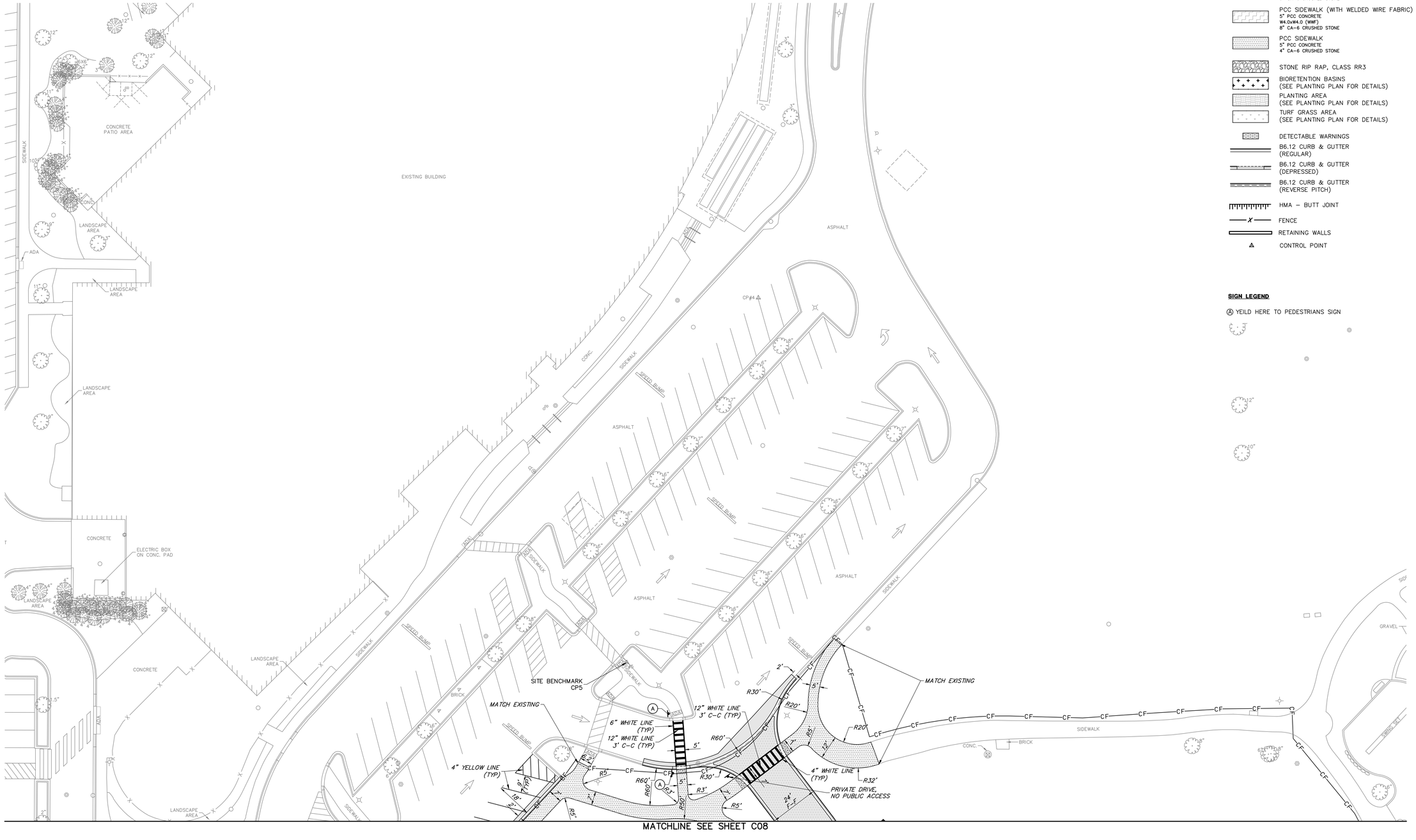

NOTE:
SEE SHEET C06 FOR GEOMETRIC AND PAVING PLAN NOTES

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

PROPOSED LEGEND

- NORMAL DUTY HMA PAVEMENT
  1.75" HMA SURFACE COURSE, MIX "D", N50
  2.25" HMA BINDER COURSE, IL-19.0, N50
  10" CA-6 CRUSHED STONE
- HEAVY DUTY HMA PAVEMENT
  2" HMA SURFACE COURSE, MIX "D", N50
  4" HMA BINDER COURSE, IL-19.0, N50
  8" CA-6 CRUSHED STONE
- HMA PAVEMENT REMOVAL & REPLACEMENT
  1.75" HMA SURFACE COURSE, MIX "D", N50
  2.25" HMA BINDER COURSE, IL-19.0, N50
  REGRADE EX. AGGREGATE BASE AS NEEDED
- PCC PAVEMENT
  8" PCC CONCRETE
  6" CA-6 CRUSHED STONE
- PCC SIDEWALK (WITH WELDED WIRE FABRIC)
  5" PCC CONCRETE
  W4.0xW4.0 (WWF)
  8" CA-6 CRUSHED STONE
- PCC SIDEWALK
  5" PCC CONCRETE
  4" CA-6 CRUSHED STONE
- STONE RIP RAP, CLASS RR3
- BIORETENTION BASINS (SEE PLANTING PLAN FOR DETAILS)
- PLANTING AREA (SEE PLANTING PLAN FOR DETAILS)
- TURF GRASS AREA (SEE PLANTING PLAN FOR DETAILS)
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- HMA – BUTT JOINT
- FENCE
- RETAINING WALLS
- CONTROL POINT

SIGN LEGEND

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

GEOMETRIC PLAN

C09

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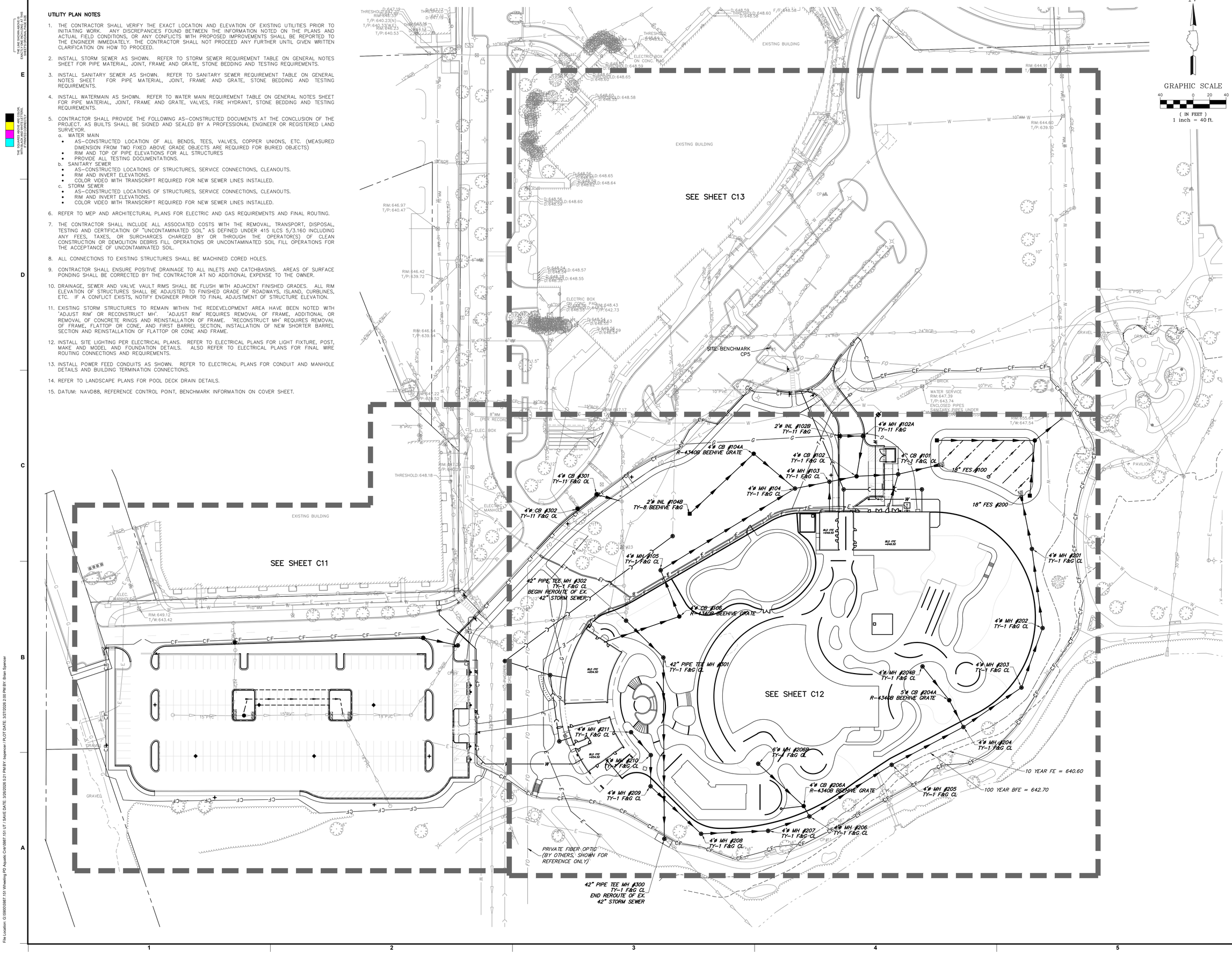
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS DRAWING IS NOT FULL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AND NUMBERS

UTILITY PLAN NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO INITIATING WORK. ANY DISCREPANCIES FOUND BETWEEN THE INFORMATION NOTED ON THE PLANS AND ACTUAL FIELD CONDITIONS, OR ANY CONFLICTS WITH PROPOSED IMPROVEMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED ANY FURTHER UNTIL GIVEN WRITTEN CLARIFICATION ON HOW TO PROCEED.
2. INSTALL STORM SEWER AS SHOWN. REFER TO STORM SEWER REQUIREMENT TABLE ON GENERAL NOTES SHEET FOR PIPE MATERIAL, JOINT, FRAME AND GRATE, STONE BEDDING AND TESTING REQUIREMENTS.
3. INSTALL SANITARY SEWER AS SHOWN. REFER TO SANITARY SEWER REQUIREMENT TABLE ON GENERAL NOTES SHEET FOR PIPE MATERIAL, JOINT, FRAME AND GRATE, STONE BEDDING AND TESTING REQUIREMENTS.
4. INSTALL WATERMAIN AS SHOWN. REFER TO WATER MAIN REQUIREMENT TABLE ON GENERAL NOTES SHEET FOR PIPE MATERIAL, JOINT, FRAME AND GRATE, VALVES, FIRE HYDRANT, STONE BEDDING AND TESTING REQUIREMENTS.
5. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT. AS BUILTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR.
   a. WATER MAIN
      - AS-CONSTRUCTED LOCATION OF ALL BENDS, TEES, VALVES, COPPER UNIONS, ETC. (MEASURED DIMENSION FROM TWO FIXED ABOVE GRADE OBJECTS ARE REQUIRED FOR BURIED OBJECTS)
      - RIM AND TOP OF PIPE ELEVATIONS FOR ALL STRUCTURES
      - PROVIDE ALL TESTING DOCUMENTATIONS.
   b. SANITARY SEWER
      - AS-CONSTRUCTED LOCATIONS OF STRUCTURES, SERVICE CONNECTIONS, CLEANOUTS.
      - RIM AND INVERT ELEVATIONS.
      - COLOR VIDEO WITH TRANSCRIPT REQUIRED FOR NEW SEWER LINES INSTALLED.
   c. STORM SEWER
      - AS-CONSTRUCTED LOCATIONS OF STRUCTURES, SERVICE CONNECTIONS, CLEANOUTS.
      - RIM AND INVERT ELEVATIONS.
      - COLOR VIDEO WITH TRANSCRIPT REQUIRED FOR NEW SEWER LINES INSTALLED.
6. REFER TO MEP AND ARCHITECTURAL PLANS FOR ELECTRIC AND GAS REQUIREMENTS AND FINAL ROUTING.
7. THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
8. ALL CONNECTIONS TO EXISTING STRUCTURES SHALL BE MACHINED CORED HOLES.
9. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL INLETS AND CATCHBASINS. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
10. DRAINAGE, SEWER AND VALVE VAULT RIMS SHALL BE FLUSH WITH ADJACENT FINISHED GRADES. ALL RIM ELEVATION OF STRUCTURES SHALL BE ADJUSTED TO FINISHED GRADE OF ROADWAYS, ISLAND, CURBLINES, ETC. IF A CONFLICT EXISTS, NOTIFY ENGINEER PRIOR TO FINAL ADJUSTMENT OF STRUCTURE ELEVATION.
11. EXISTING STORM STRUCTURES TO REMAIN WITHIN THE REDEVELOPMENT AREA HAVE BEEN NOTED WITH 'ADJUST RIM' OR RECONSTRUCT MH'. 'ADJUST RIM' REQUIRES REMOVAL OF FRAME, ADDITIONAL OR REMOVAL OF CONCRETE RINGS AND REINSTALLATION OF FRAME. 'RECONSTRUCT MH' REQUIRES REMOVAL OF FRAME, FLATTOP OR CONE, AND FIRST BARREL SECTION, INSTALLATION OF NEW SHORTER BARREL SECTION AND REINSTALLATION OF FLATTOP OR CONE AND FRAME.
12. INSTALL SITE LIGHTING PER ELECTRICAL PLANS. REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE, POST, MAKE AND MODEL AND FOUNDATION DETAILS. ALSO REFER TO ELECTRICAL PLANS FOR FINAL WIRE ROUTING CONNECTIONS AND REQUIREMENTS.
13. INSTALL POWER FEED CONDUITS AS SHOWN. REFER TO ELECTRICAL PLANS FOR CONDUIT AND MANHOLE DETAILS AND BUILDING TERMINATION CONNECTIONS.
14. REFER TO LANDSCAPE PLANS FOR POOL DECK DRAIN DETAILS.
15. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.



N

GRAPHIC SCALE

40 0 20 40

(IN FEET)

1 inch = 40 ft.

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

UTILITY PLAN - OVERALL

C10

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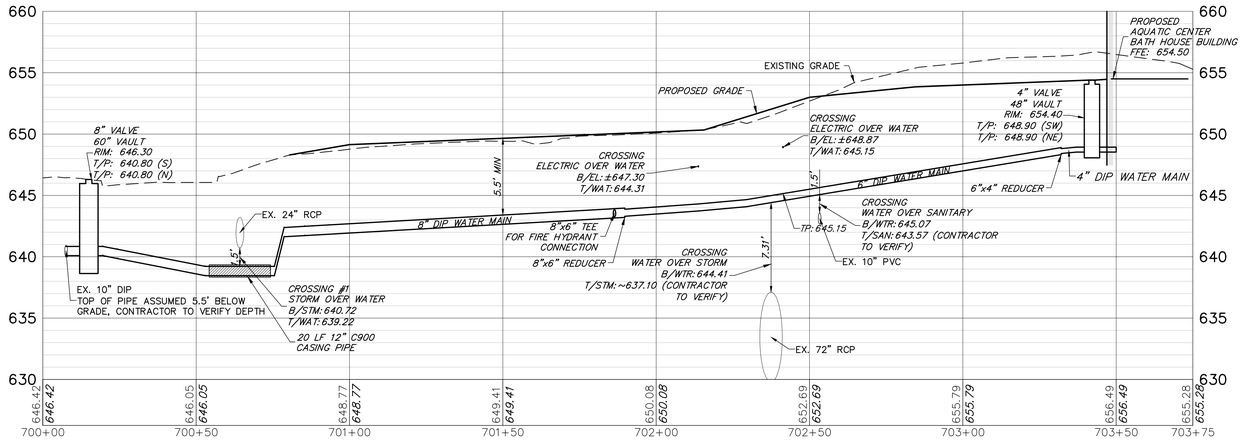
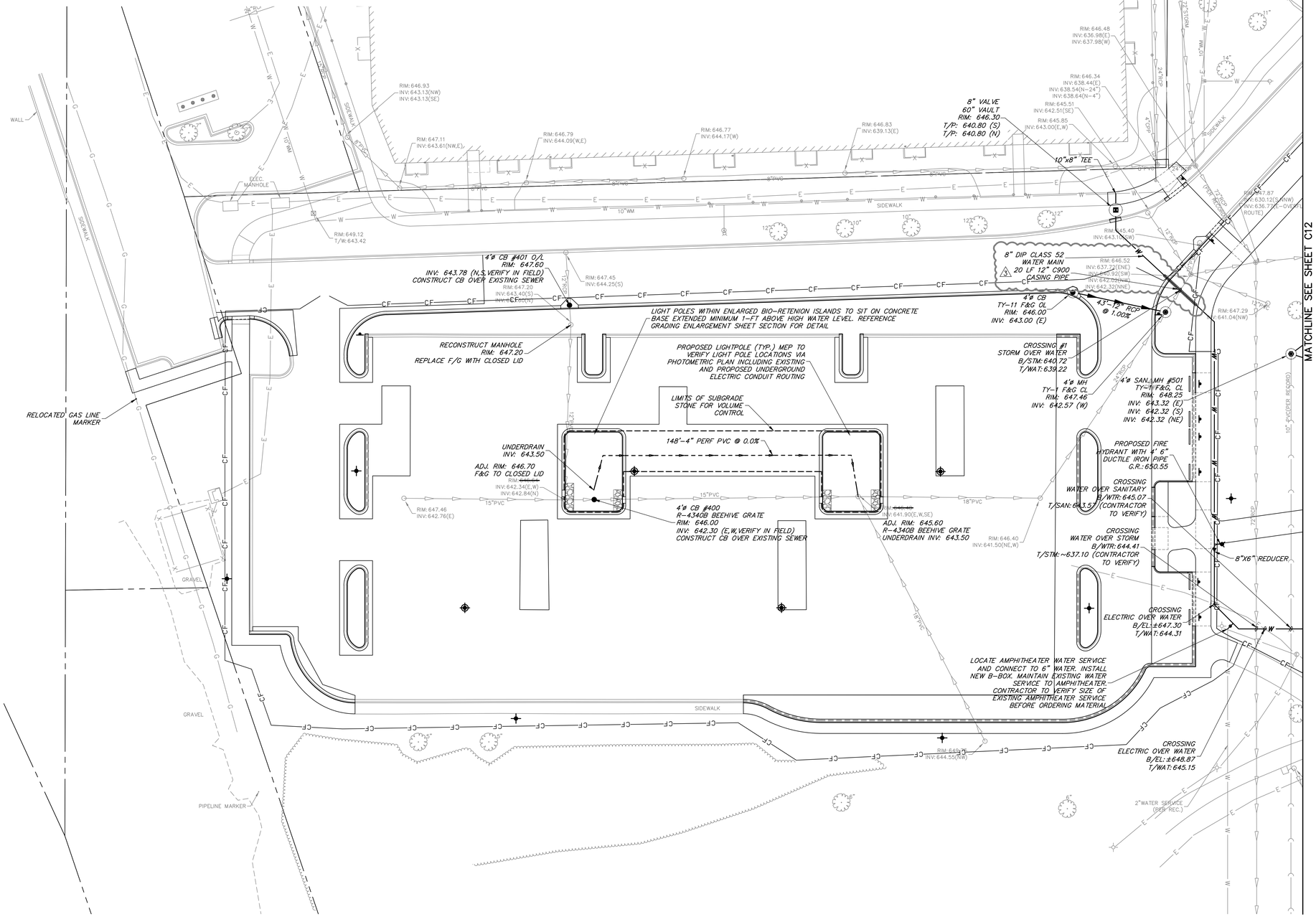
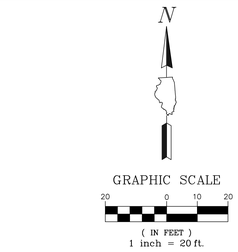


WATER MAIN PROFILE AQUATIC CENTER BATH HOUSE BUILDING





UTILITY PLAN LEGEND

	EXISTING STORM SEWER
C	EXISTING SANITARY SEWER
W	EXISTING WATERMAIN
	PROPOSED STORM SEWER
C	PROPOSED SANITARY SEWER
W	PROPOSED WATERMAIN

EXISTING	PROPOSED	
		STORM MANHOLE
		STORM CATCHBASIN
		STORM INLET
		FLARED END SECTION
		SANITARY MANHOLE
		VALVE VAULT
		VALVE BOX
		FIRE HYDRANT
		BUFFALO BOX
		STREET LIGHT
		STREET LIGHT ON CONC. FOUNDATION
		POWER POLE
		SIGN
		10 YEAR FE: 640.6
		100 YEAR BFE: 642.7
		100 YEAR BFE: 642.7
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)

NOTE:
DATUM NAVD88

SEE SHEET C10 FOR UTILITY PLAN NOTES

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Revision Schedule

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

UTILITY PLAN

C11

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MATCHLINE SEE SHEET C13

MATCHLINE SEE SHEET C11

REFER TO POOL PLANS AND ARCHITECTURAL PLANS FOR DETAILED INFORMATION FOR PLUMBING, PAVEMENT MATERIALS, AND GRADING WITHIN POOL DECK AND PERIMETER FENCE LINE.

UTILITY PLAN LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN

EXISTING	PROPOSED	
		STORM MANHOLE
		STORM CATCHBASIN
		STORM INLET
		FLARED END SECTION
		SANITARY MANHOLE
		VALVE VAULT
		VALVE BOX
		FIRE HYDRANT
		BUFFALO BOX
		STREET LIGHT
		STREET LIGHT ON CONC. FOUNDATIC
		POWER POLE
		SIGN
		10 YEAR FE: 640.6
		100 YEAR BFE: 642.7
		100 YEAR BFE: 642.7
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)

N

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

NOTE:
DATUM NAVD88

SEE SHEET C10 FOR UTILITY PLAN NOTES

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

UTILITY PLAN

C12

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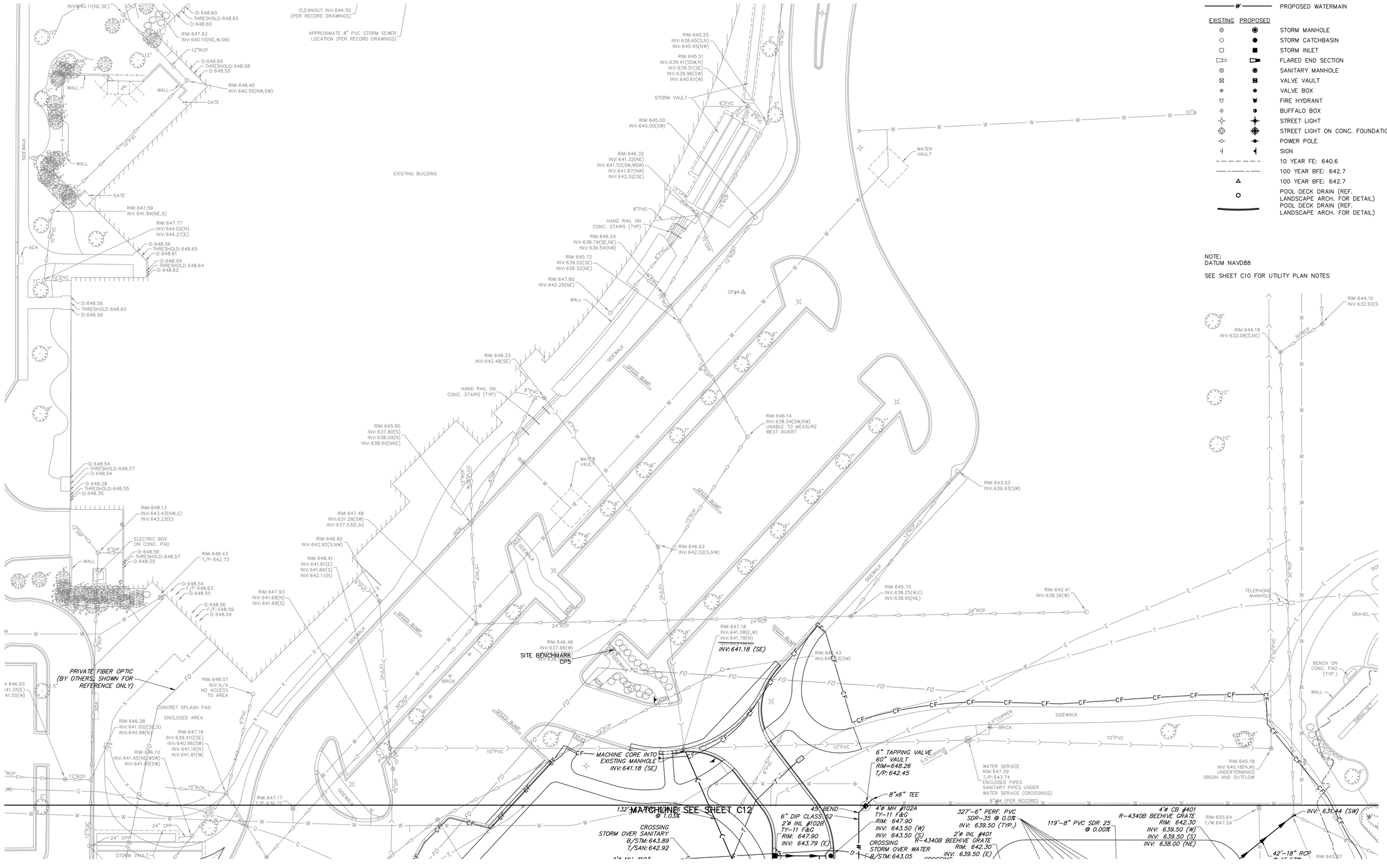

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

UTILITY PLAN LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN

EXISTING	PROPOSED	
		STORM MANHOLE
		STORM CATCHBASIN
		STORM INLET
		FLARED END SECTION
		SANITARY MANHOLE
		VALVE VAULT
		VALVE BOX
		FIRE HYDRANT
		BUFFALO BOX
		STREET LIGHT
		STREET LIGHT ON CONC. FOUNDATIC
		POWER POLE
		SIGN
		10 YEAR FE: 640.6
		100 YEAR BFE: 642.7
		100 YEAR BFE: 642.7
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)
		POOL DECK DRAIN (REF. LANDSCAPE ARCH. FOR DETAIL)

NOTE:
DATUM NAVD88

SEE SHEET C10 FOR UTILITY PLAN NOTES

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

UTILITY PLAN

C13

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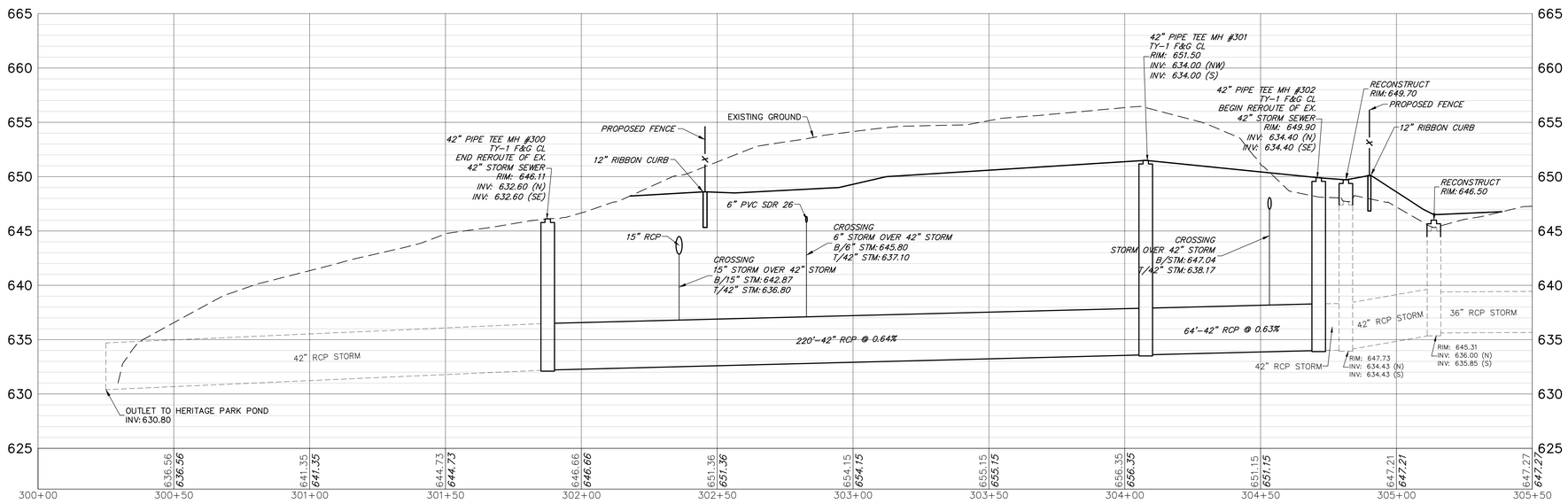
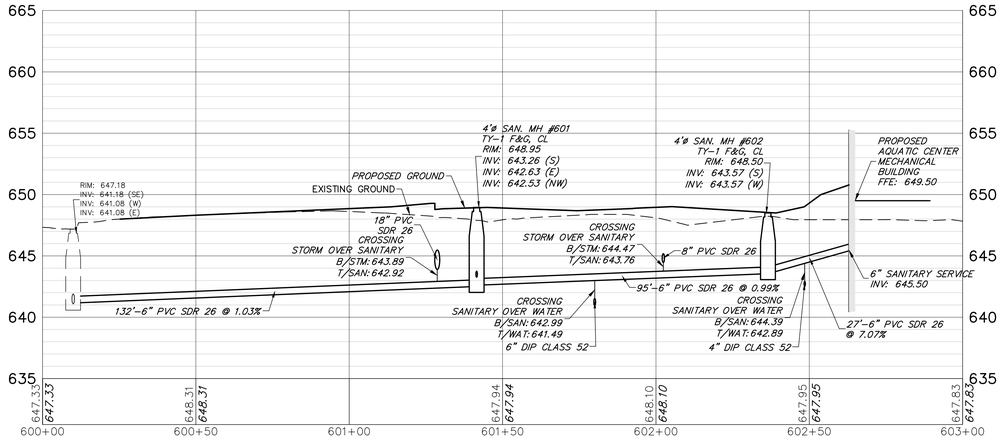
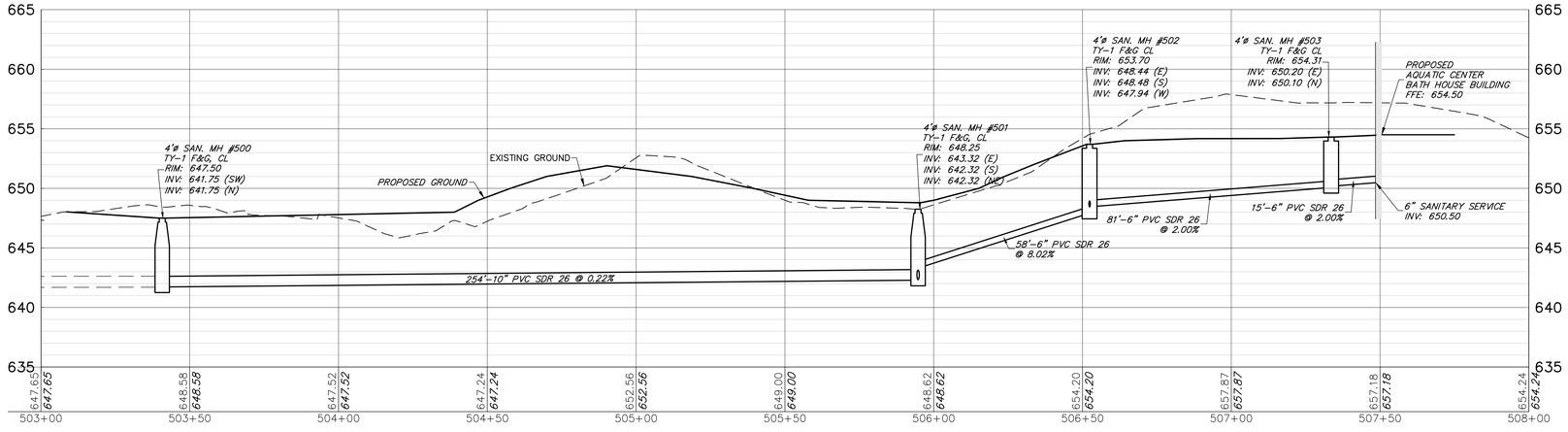
GRAPHIC SCALE
20 0 10 20
(IN FEET)
H. 1" = 20 ft. V. 1" = 5 ft.



42" STORM SEWER REROUTE PROFILE



SANITARY SEWER PROFILE FROM AQUATIC CENTER MECHANICAL BUILDING



SANITARY SEWER PROFILE FROM AQUATIC CENTER BATH HOUSE BUILDING

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

UTILITY PROFILES

C14

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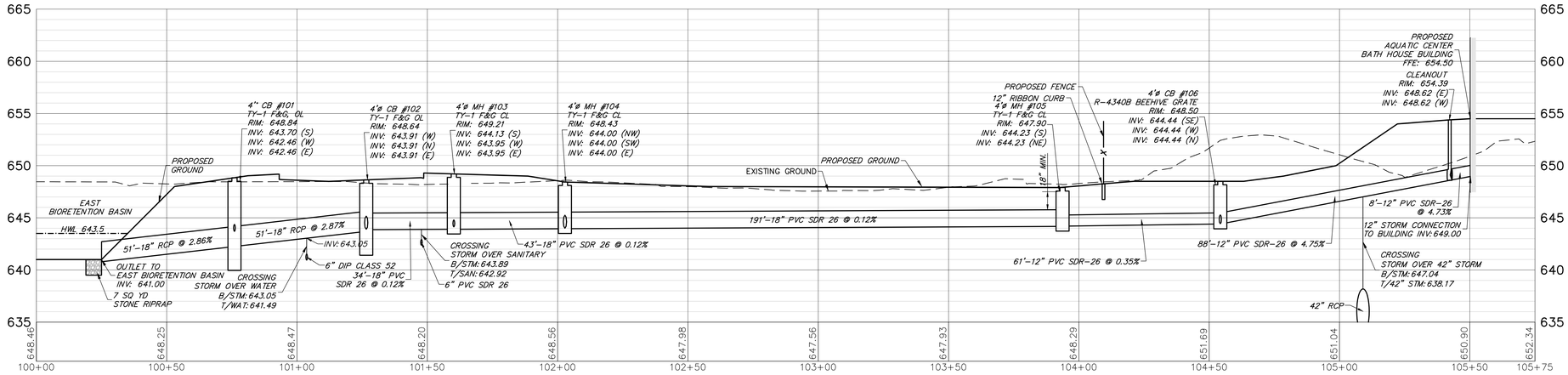
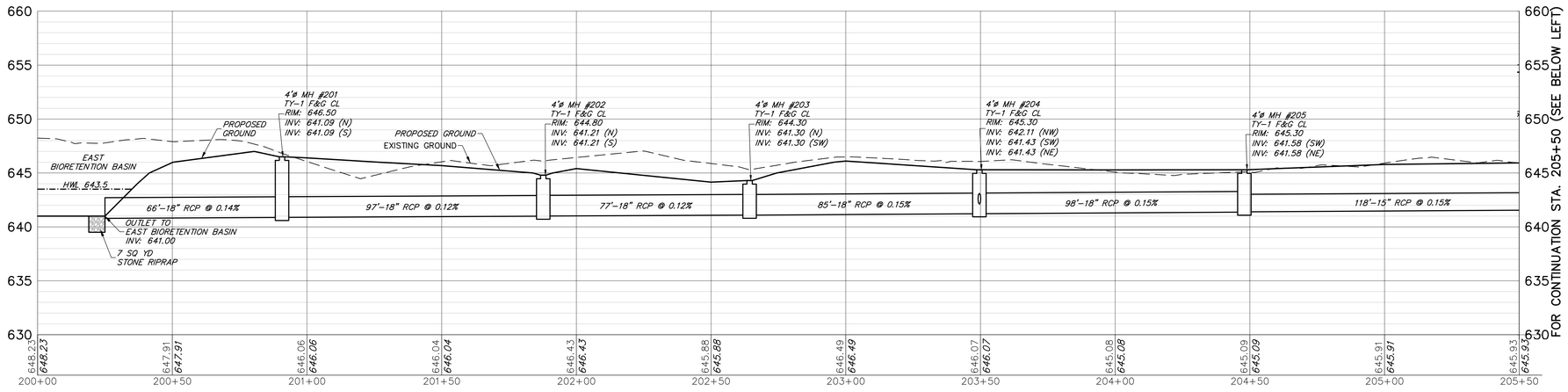
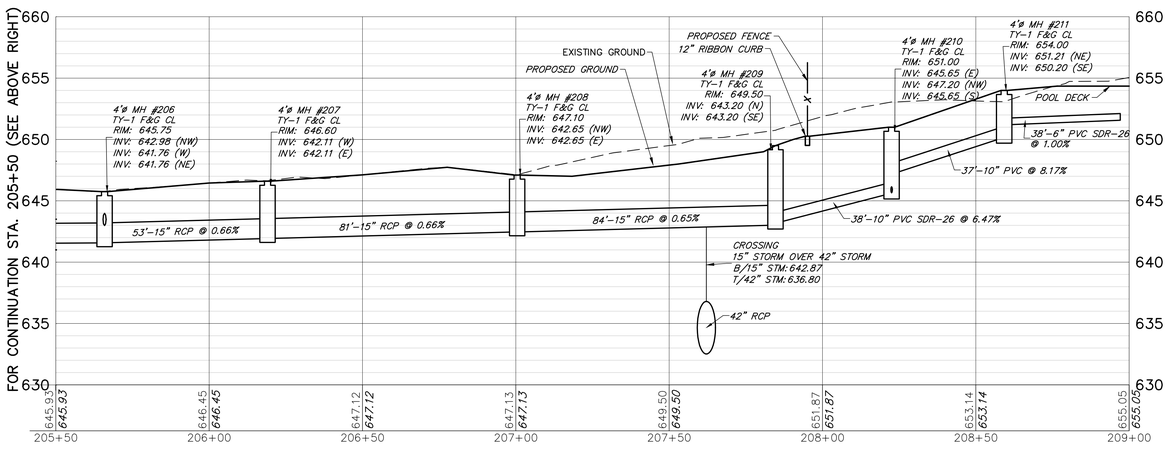
GRAPHIC SCALE
20 0 10 20
(IN FEET)
H. 1" = 20 ft. V. 1" = 5 ft.



STORM SEWER PROFILE FROM EAST BIORETENTION BASIN TO AQUATIC CENTER BATH HOUSE BUILDING



STORM SEWER PROFILE FROM EAST BIORETENTION BASIN TO AQUATIC CENTER



STORM SEWER PROFILE FROM EAST BIORETENTION BASIN TO AQUATIC CENTER

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

UTILITY PROFILES

C15

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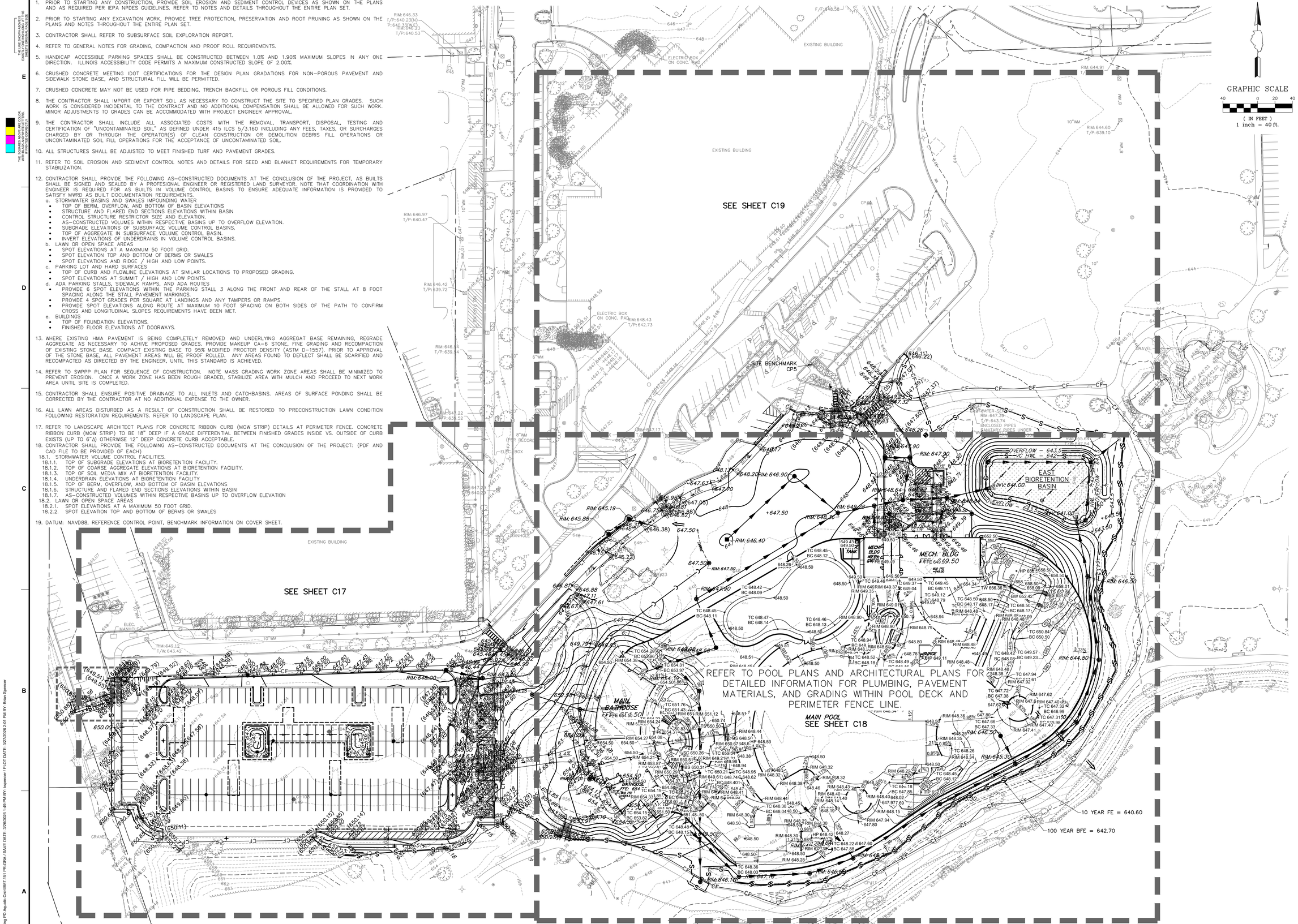
GRADING PLAN NOTES

1. PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
2. PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION AND ROOT PRUNING AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
3. CONTRACTOR SHALL REFER TO SUBSURFACE SOIL EXPLORATION REPORT.
4. REFER TO GENERAL NOTES FOR GRADING, COMPACTION AND PROOF ROLL REQUIREMENTS.
5. HANDICAP ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED BETWEEN 1.0% AND 1.90% MAXIMUM SLOPES IN ANY ONE DIRECTION. ILLINOIS ACCESSIBILITY CODE PERMITS A MAXIMUM CONSTRUCTED SLOPE OF 2.00%.
6. CRUSHED CONCRETE MEETING IDOT CERTIFICATIONS FOR THE DESIGN PLAN GRADATIONS FOR NON-POROUS PAVEMENT AND SIDEWALK STONE BASE, AND STRUCTURAL FILL WILL BE PERMITTED.
7. CRUSHED CONCRETE MAY NOT BE USED FOR PIPE BEDDING, TRENCH BACKFILL OR POROUS FILL CONDITIONS.
8. THE CONTRACTOR SHALL IMPORT OR EXPORT SOIL AS NECESSARY TO CONSTRUCT THE SITE TO SPECIFIED PLAN GRADES. SUCH WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. MINOR ADJUSTMENTS TO GRADES CAN BE ACCOMMODATED WITH PROJECT ENGINEER APPROVAL.
9. THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS WITH THE REMOVAL, TRANSPORT, DISPOSAL, TESTING AND CERTIFICATION OF "UNCONTAMINATED SOIL" AS DEFINED UNDER 415 ILCS 5/3.160 INCLUDING ANY FEES, TAXES, OR SURCHARGES CHARGED BY OR THROUGH THE OPERATOR(S) OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS OR UNCONTAMINATED SOIL FILL OPERATIONS FOR THE ACCEPTANCE OF UNCONTAMINATED SOIL.
10. ALL STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED TURF AND PAVEMENT GRADES.
11. REFER TO SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS FOR SEED AND BLANKET REQUIREMENTS FOR TEMPORARY STABILIZATION.
12. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT, AS BUILTS SHALL BE SIGNED AND SEALED BY A PROFESIONAL ENGINEER OR REGISTERED LAND SURVEYOR. NOTE THAT COORDINATION WITH ENGINEER IS REQUIRED FOR AS BUILTS IN VOLUME CONTROL BASINS TO ENSURE ADEQUATE INFORMATION IS PROVIDED TO SATISFY MWRD AS BUILT DOCUMENTATION REQUIREMENTS.
    a. STORMWATER BASINS AND SWALES IMPOUNDING WATER
        - TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
        - STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
        - CONTROL STRUCTURE RESTRICTOR SIZE AND ELEVATION.
        - AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION.
        - SUBGRADE ELEVATIONS OF SUBSURFACE VOLUME CONTROL BASINS.
        - TOP OF AGGREGATE IN SUBSURFACE VOLUME CONTROL BASIN.
        - INVERT ELEVATIONS OF UNDERDRAINS IN VOLUME CONTROL BASINS.
    b. LAWN OR OPEN SPACE AREAS
        - SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
        - SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES
        - SPOT ELEVATIONS AND RIDGE / HIGH AND LOW POINTS.
    c. PARKING LOT AND HARD SURFACES
        - TOP OF CURB AND FLOWLINE ELEVATIONS AT SIMILAR LOCATIONS TO PROPOSED GRADING.
        - SPOT ELEVATIONS AT SUMMIT / HIGH AND LOW POINTS.
    d. ADA PARKING STALLS, SIDEWALK RAMPS, AND ADA ROUTES
        - PROVIDE 6 SPOT ELEVATIONS WITHIN THE PARKING STALL 3 ALONG THE FRONT AND REAR OF THE STALL AT 8 FOOT SPACING ALONG THE STALL PAVEMENT MARKINGS.
        - PROVIDE 4 SPOT GRADES PER SQUARE AT LANDINGS AND ANY TAMPERS OR RAMPS.
        - PROVIDE SPOT ELEVATIONS ALONG ROUTE AT MAXIMUM 10 FOOT SPACING ON BOTH SIDES OF THE PATH TO CONFIRM CROSS AND LONGITUDINAL SLOPES REQUIREMENTS HAVE BEEN MET.
    e. BUILDINGS
        - TOP OF FOUNDATION ELEVATIONS.
        - FINISHED FLOOR ELEVATIONS AT DOORWAYS.
13. WHERE EXISTING HMA PAVEMENT IS BEING COMPLETELY REMOVED AND UNDERLYING AGGREGAT BASE REMAINING, REGRADE AGGREGATE AS NECESSARY TO ACHIVE PROPOSED GRADES. PROVIDE MAKEUP CA-6 STONE, FINE GRADING AND RECOMPACTION OF EXISTING STONE BASE. COMPACT EXISTING BASE TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). PRIOR TO APPROVAL OF THE STONE BASE, ALL PAVEMENT AREAS WILL BE PROOF ROLLED. ANY AREAS FOUND TO DEFLECT SHALL BE SCARIFIED AND RECOMPACTED AS DIRECTED BY THE ENGINEER, UNTIL THIS STANDARD IS ACHIEVED.
14. REFER TO SWPPP PLAN FOR SEQUENCE OF CONSTRUCTION. NOTE MASS GRADING WORK ZONE AREAS SHALL BE MINIMIZED TO PREVENT EROSION. ONCE A WORK ZONE HAS BEEN ROUGH GRADED, STABLIZE AREA WITH MULCH AND PROCEED TO NEXT WORK AREA UNTIL SITE IS COMPLETED.
15. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL INLETS AND CATCHBASINS. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
16. ALL LAWN AREAS DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO PRECONSTRUCTION LAWN CONDITION FOLLOWING RESTORATION REQUIREMENTS. REFER TO LANDSCAPE PLAN.
17. REFER TO LANDSCAPE ARCHITECT PLANS FOR CONCRETE RIBBON CURB (MOW STRIP) DETAILS AT PERIMETER FENCE. CONCRETE RIBBON CURB (MOW STRIP) TO BE 18" DEEP IF A GRADE DIFFERENTIAL BETWEEN FINISHED GRADES INSIDE VS. OUTSIDE OF CURB EXISTS (UP TO 6"Δ) OTHERWISE 12" DEEP CONCRETE CURB ACCEPTABLE.
18. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT: (PDF AND CAD FILE TO BE PROVIDED OF EACH)
    18.1. STORMWATER VOLUME CONTROL FACILITIES.
        18.1.1. TOP OF SUBGRADE ELEVATIONS AT BIORETENTION FACILITY.
        18.1.2. TOP OF COARSE AGGREGATE ELEVATIONS AT BIORETENTION FACILITY.
        18.1.3. TOP OF SOIL MEDIA MIX AT BIORETENTION FACILITY.
        18.1.4. UNDERDRAIN ELEVATIONS AT BIORETENTION FACILITY
        18.1.5. TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
        18.1.6. STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
        18.1.7. AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION
    18.2. LAWN OR OPEN SPACE AREAS
        18.2.1. SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
        18.2.2. SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES
19. DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.



N

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01
1b	03-04-2026	IEPA Water Initial Submittal
3	03-20-2026	BP3 - ADDENDUM #3
4	03-27-2026	Major Site Plan Resubmittal 02

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GRADING PLAN - OVERALL

C16

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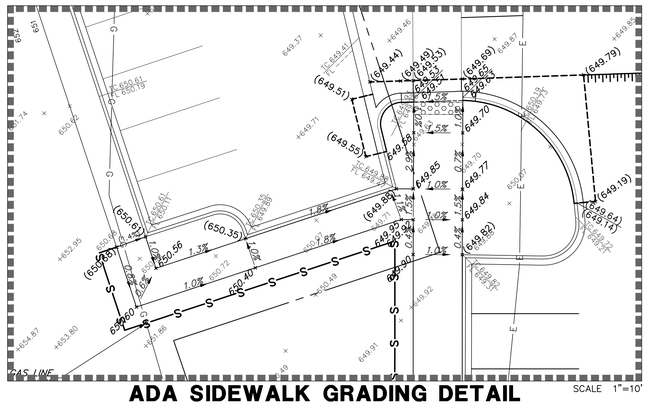
IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOT SIZE, THIS IS A 1:1 PLOT

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AND NUMBERS

File Location: G:\580\25887.151 Wheeling PD Aquatic Ctr\25887.151 PR-GRA / SAVE DATE: 3/26/2026 1:49 PM BY: hspencer / PLOT DATE: 3/27/2026 2:01 PM BY: Brian Spencer

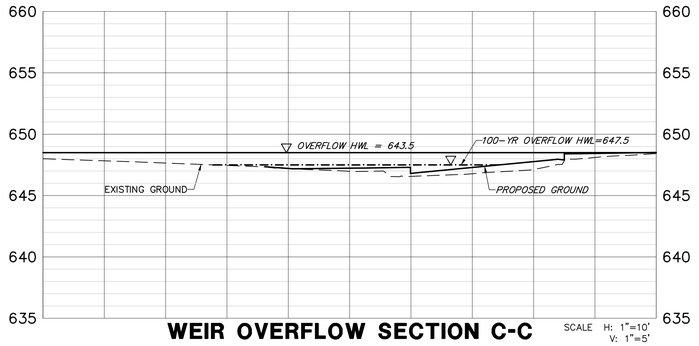
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOTTING SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED



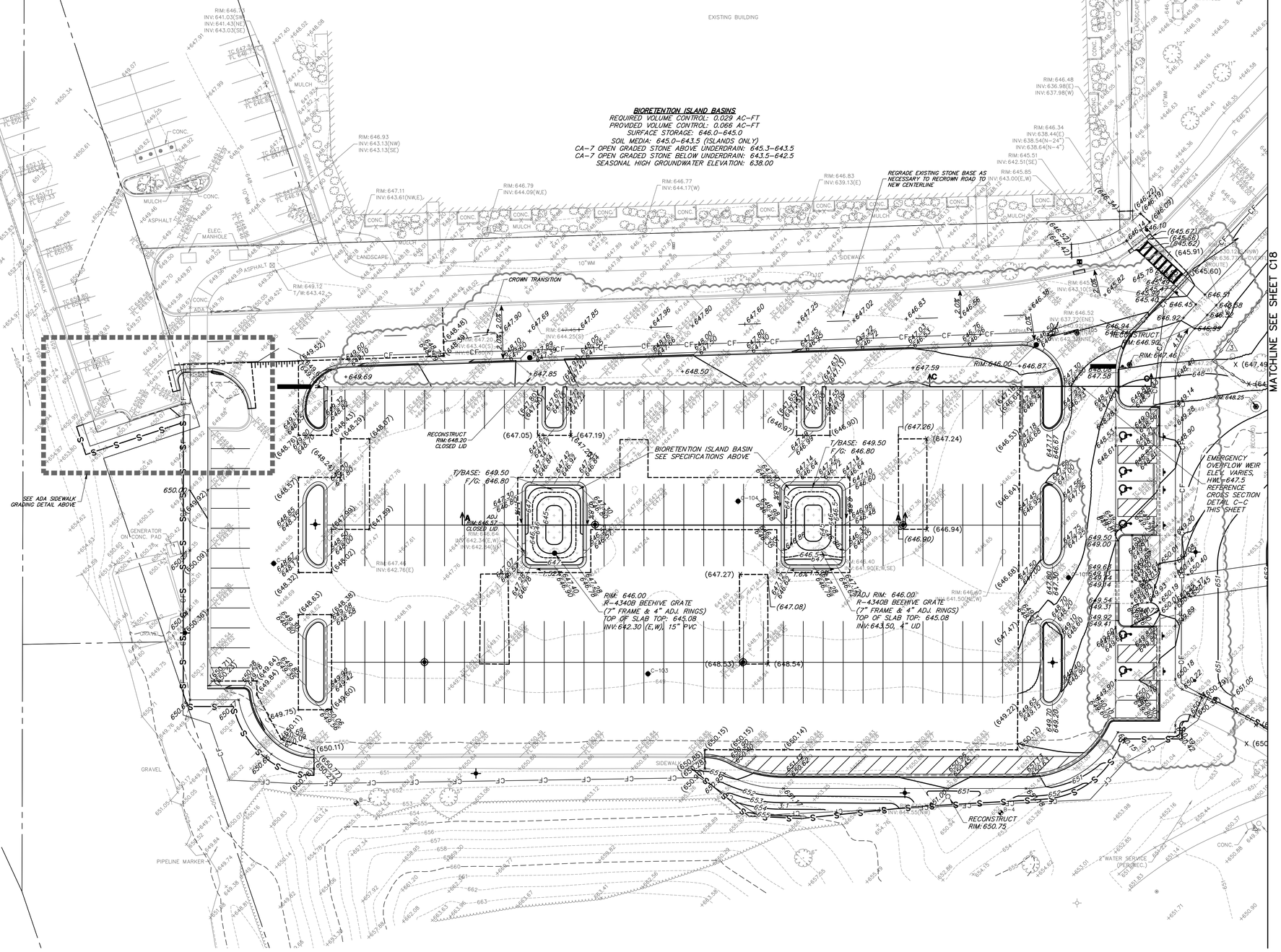
ADA SIDEWALK GRADING DETAIL

SCALE 1"=10'



WEIR OVERFLOW SECTION C-C

SCALE H: 1"=10'
V: 1"=5'



GRADING LEGEND

600.50 / 600.00	TOP OF CURB / FLOW LINE
+670.30	PROPOSED SPOT ELEVATION
XXX	CONTOUR
XXX.5	1/2 CONTOUR
AD.I: ####.## SUMMIT	STRUCTURE ADJUSTMENT
	SUMMITS
2.5%	SLOPES
	SWALES
	OVERLAND FLOW ROUTE
	DETECTABLE WARNINGS
	B6.12 CURB & GUTTER (REGULAR)
	B6.12 CURB & GUTTER (DEPRESSED)
	B6.12 CURB & GUTTER (REVERSE PITCH)
	10 YEAR FE: 640.6
	100 YEAR BFE: 642.7
	CONTROL POINT

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

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WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GRADING PLAN

C17

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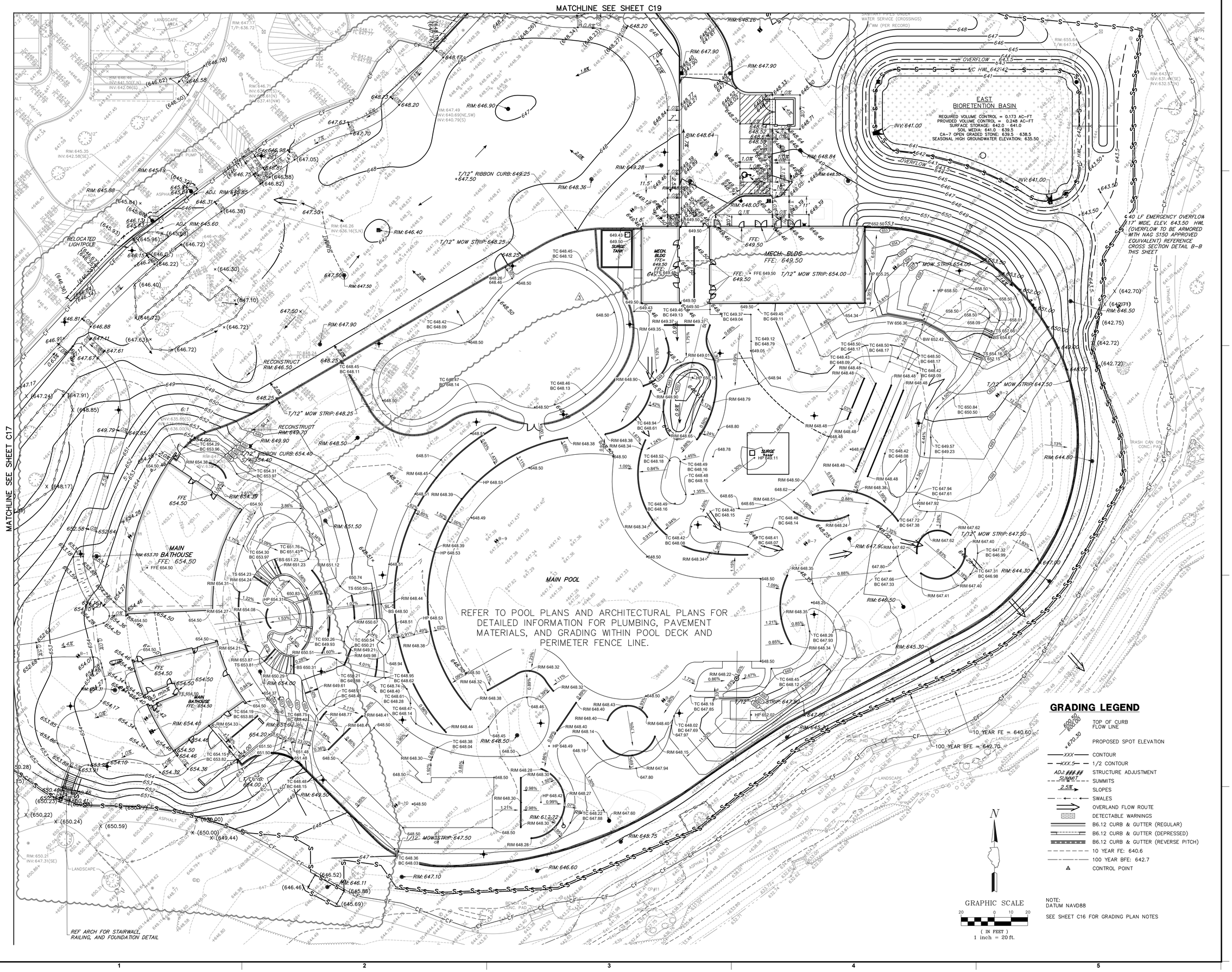

GRADING LEGEND

- TOP OF CURB / FLOW LINE
- PROPOSED SPOT ELEVATION
- CONTOUR
- 1/2 CONTOUR
- STRUCTURE ADJUSTMENT
- SUMMITS
- SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES

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Project Number	25070
Issue	Major Site Plan Resubmittal 02
Date	2026-03-27

GRADING PLAN

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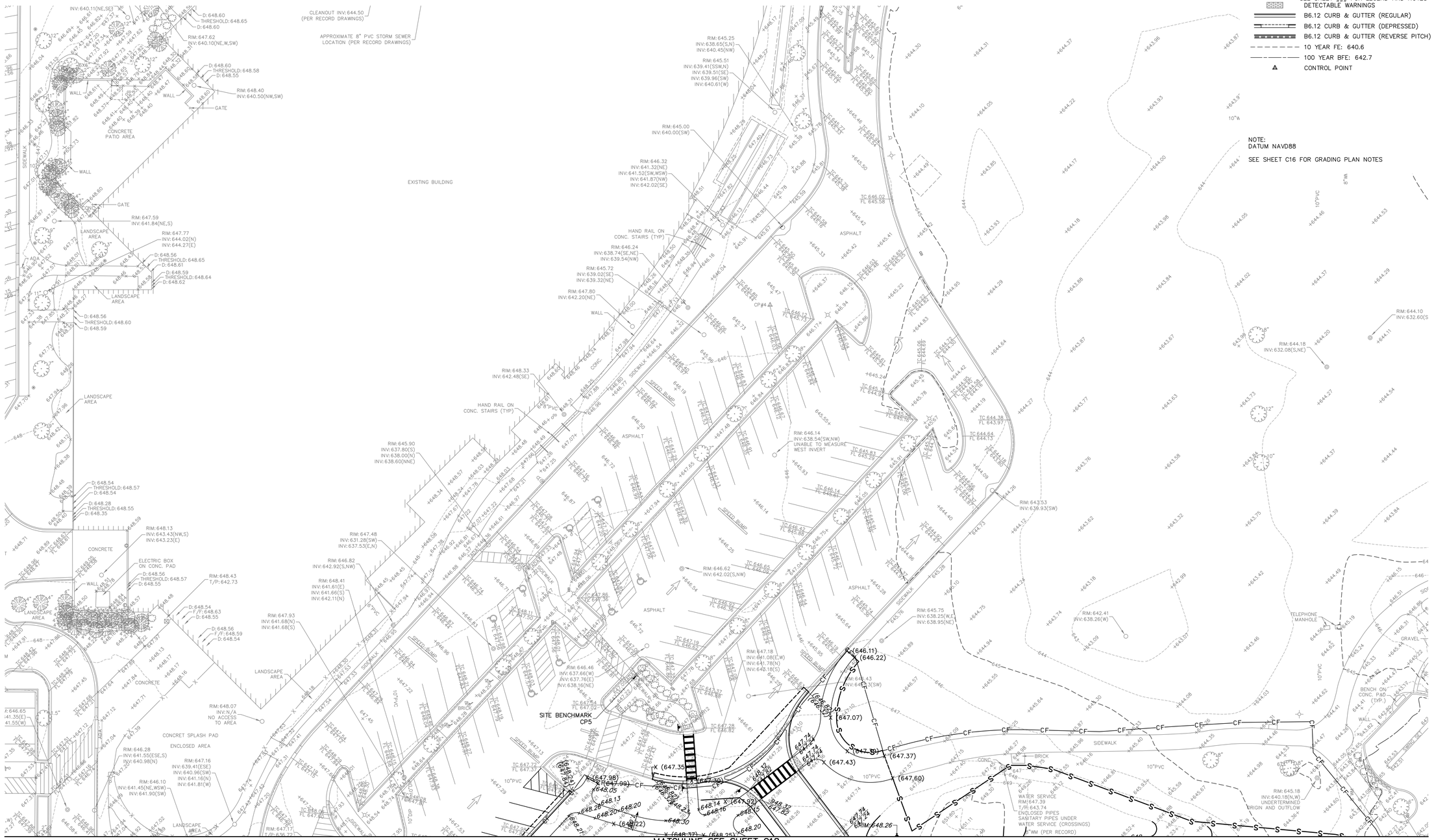

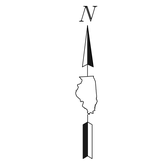

GRADING LEGEND

- 603.50 / 603.00 — TOP OF CURB FLOW LINE
- +670.30 — PROPOSED SPOT ELEVATION
- XXX — CONTOUR
- ADJ: ### ## — STRUCTURE ADJUSTMENT
- SUMMIT — SUMMITS
- 2.5% — SLOPES
- SWALES
- NOTE — OVERLAND FLOW ROUTE
- SEE SHEET ### FOR LEGEND AND NOTES — DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES

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AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

GRADING PLAN

C19

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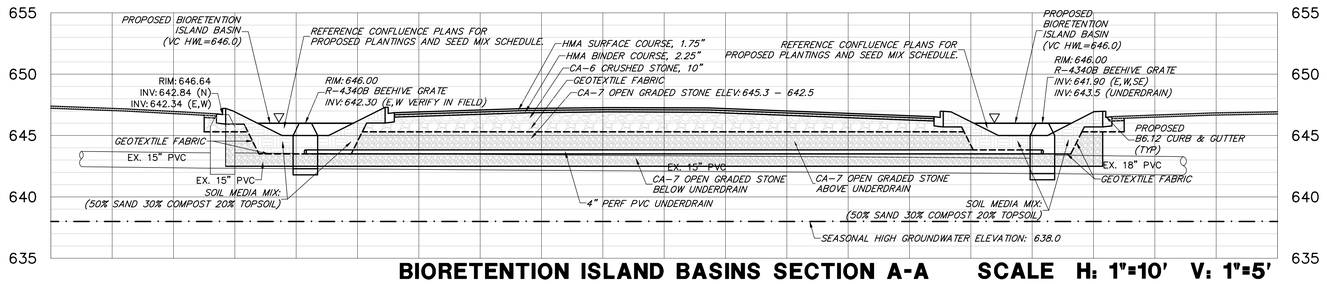
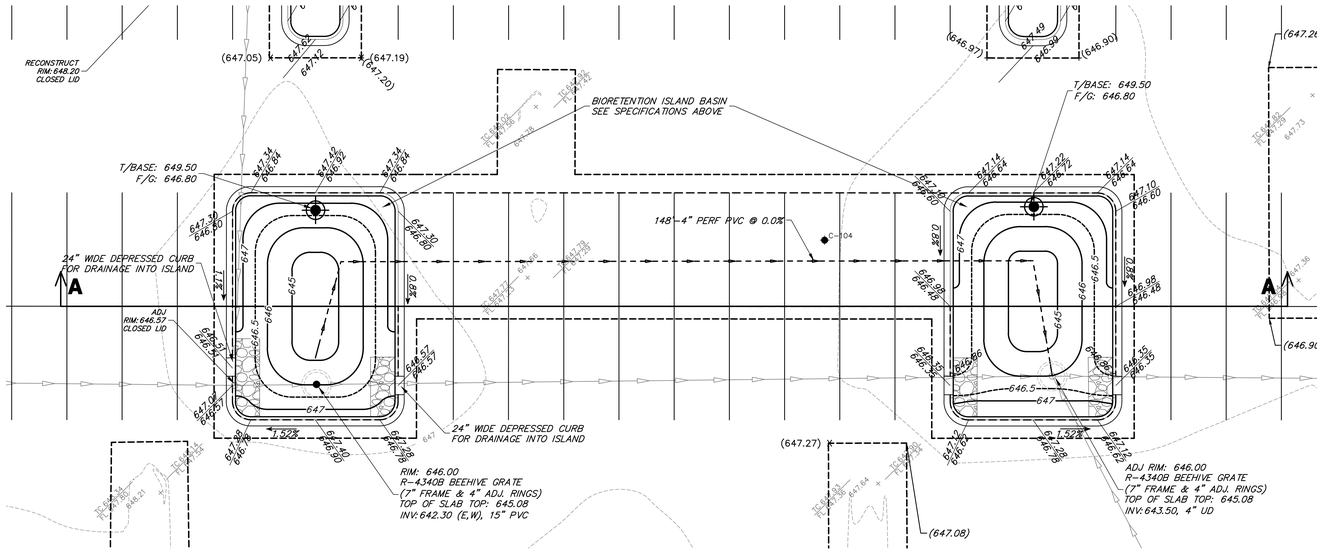
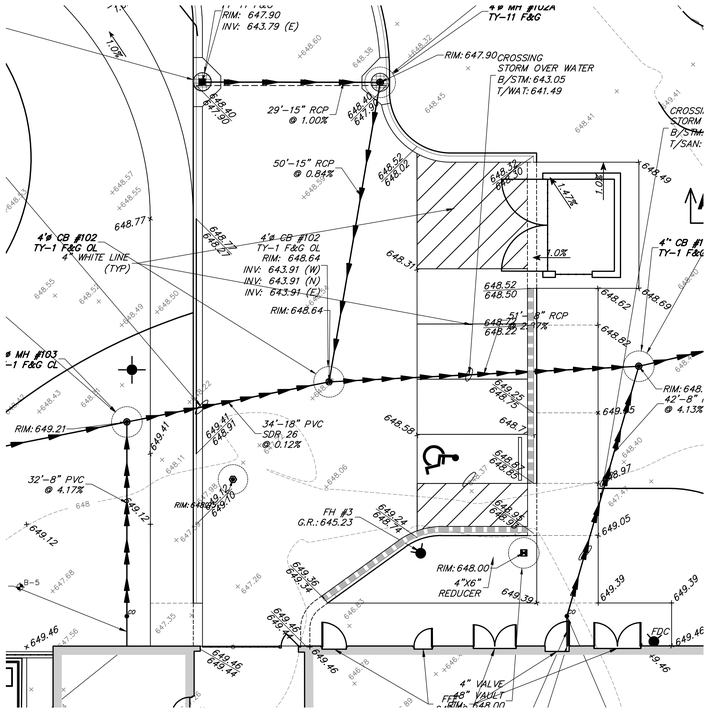


BIORETENTION ISLAND BASINS SECTION A-A SCALE H: 1"=10' V: 1"=5'



BIORETENTION ISLAND BASINS SCALE 1"=10'



MAINTENANCE BUILDING PARKING LOT SCALE 1"=10'

Stormwater Volume Control Volume Calculations - Bioretention Facilities and Stone Voids Underneath West Parking Lot

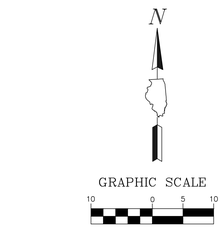
Volume Type	Elevations		Depth	Surface Area	Porosity	Storage Volume	Media Volume	
	High	Low	(feet)	(sf)		Formula	V_d (cf)	
Surface Storage	646.00	645.00	1.00	489	1.00	1.0 x V_d	489	
Soil Media (Above Invert)	645.00	643.50	1.50	917	0.25	0.5 x 0.25 x V_d	172	
Coarse Aggregate (Above Invert)	645.30	643.50	1.80	2,734	0.36	0.5 x 0.36 x V_d	886	
Coarse Aggregate (Below Invert)	643.50	642.50	1.00	3,651	0.36	0.36 x V_d	1,314	
						Total Provided	2,861	(CF)
							0.066	(Ac-Ft)

WEST VOLUME CONTROL REQUIRED: 0.029 (Ac-Ft)
WEST VOLUME CONTROL PROVIDED: 0.066 (Ac-Ft)

NOTES:
1. SEE SHEET C21 FOR ADDITIONAL BIOFILTRATION POND DETAILS.
2. CONTRACTOR REQUIRED TO MAINTAIN A DEWATERED CONDITION WITHIN ALL STORMWATER CONTROL BASINS UNTIL VEGETATION HAS BEEN FULLY ESTABLISHED

STORMWATER CONTROL FACILITY AS-BUILT REQUIREMENTS

1. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT: (PDF AND CAD FILE TO BE PROVIDED OF EACH)
   - 1.1. STORMWATER VOLUME CONTROL FACILITIES.
     - 1.1.1. TOP OF SUBGRADE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.2. TOP OF COARSE AGGREGATE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.3. TOP OF SOIL MEDIA MIX AT BIORETENTION FACILITY.
     - 1.1.4. UNDERDRAIN ELEVATIONS AT BIORETENTION FACILITY
     - 1.1.5. TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
     - 1.1.6. STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
     - 1.1.7. AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION
   - 1.2. LAWN OR OPEN SPACE AREAS
     - 1.2.1. SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
     - 1.2.2. SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES

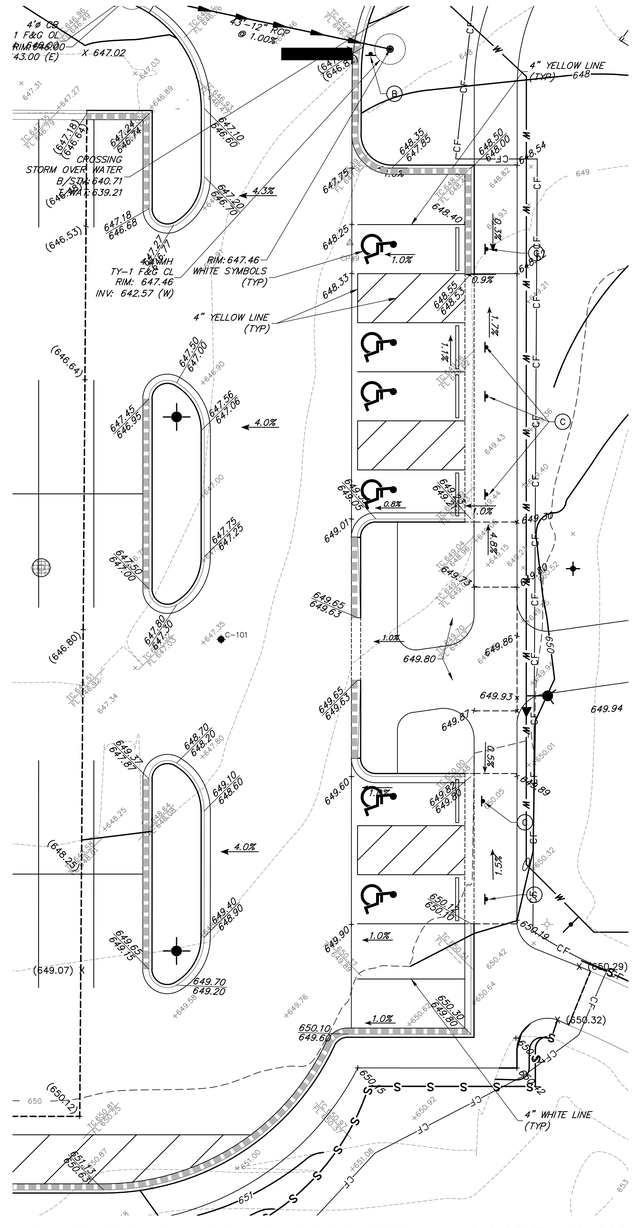


GRADING LEGEND

- TOP OF CURB / FLOW LINE
- PROPOSED SPOT ELEVATION
- XXX — CONTOUR
- ADJ: ###.## SUMMIT — STRUCTURE ADJUSTMENT
- SUMMITS
- 2.5% — SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- B6.12 CURB & GUTTER (REVERSE PITCH)
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

NOTE:
DATUM NAVD88

SEE SHEET C16 FOR GRADING PLAN NOTES



ADA PARKING AREA & DROP-OFF SCALE 1"=10'

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

GRADING - ENLARGEMENT

C20

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THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

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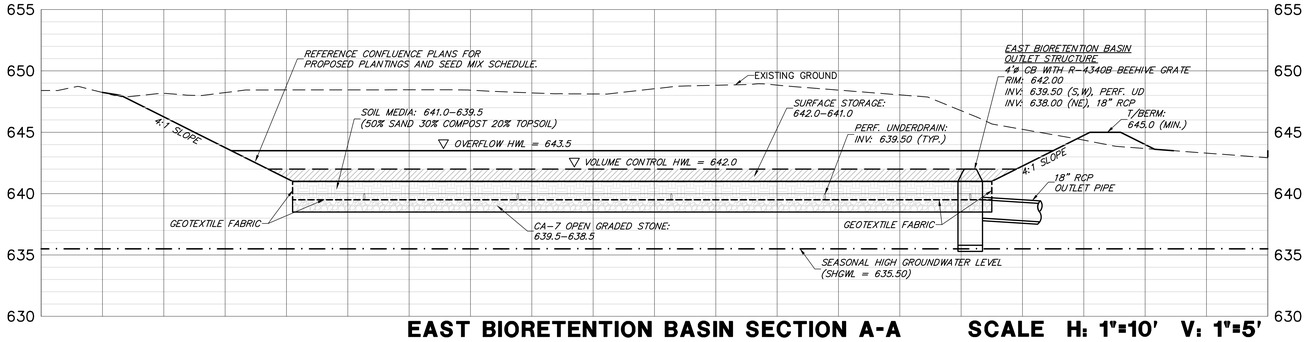


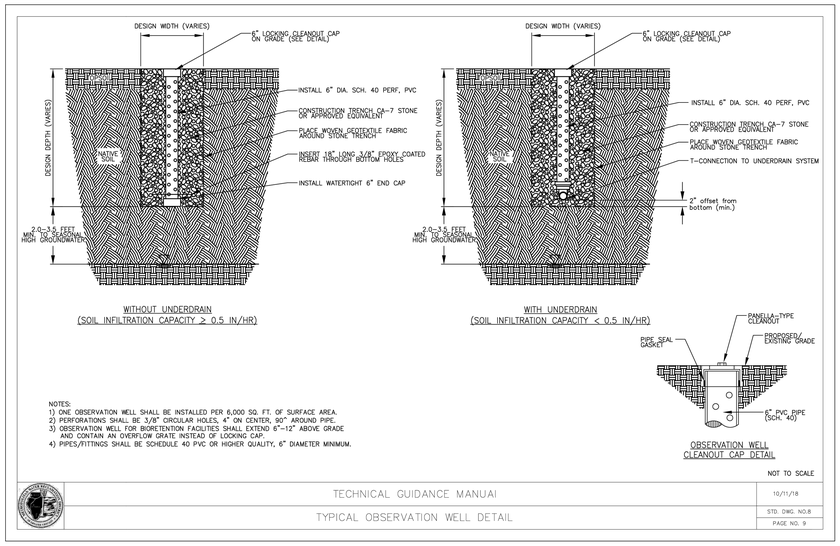
EAST BIORETENTION BASIN SECTION A-A SCALE H: 1"=10' V: 1"=5'

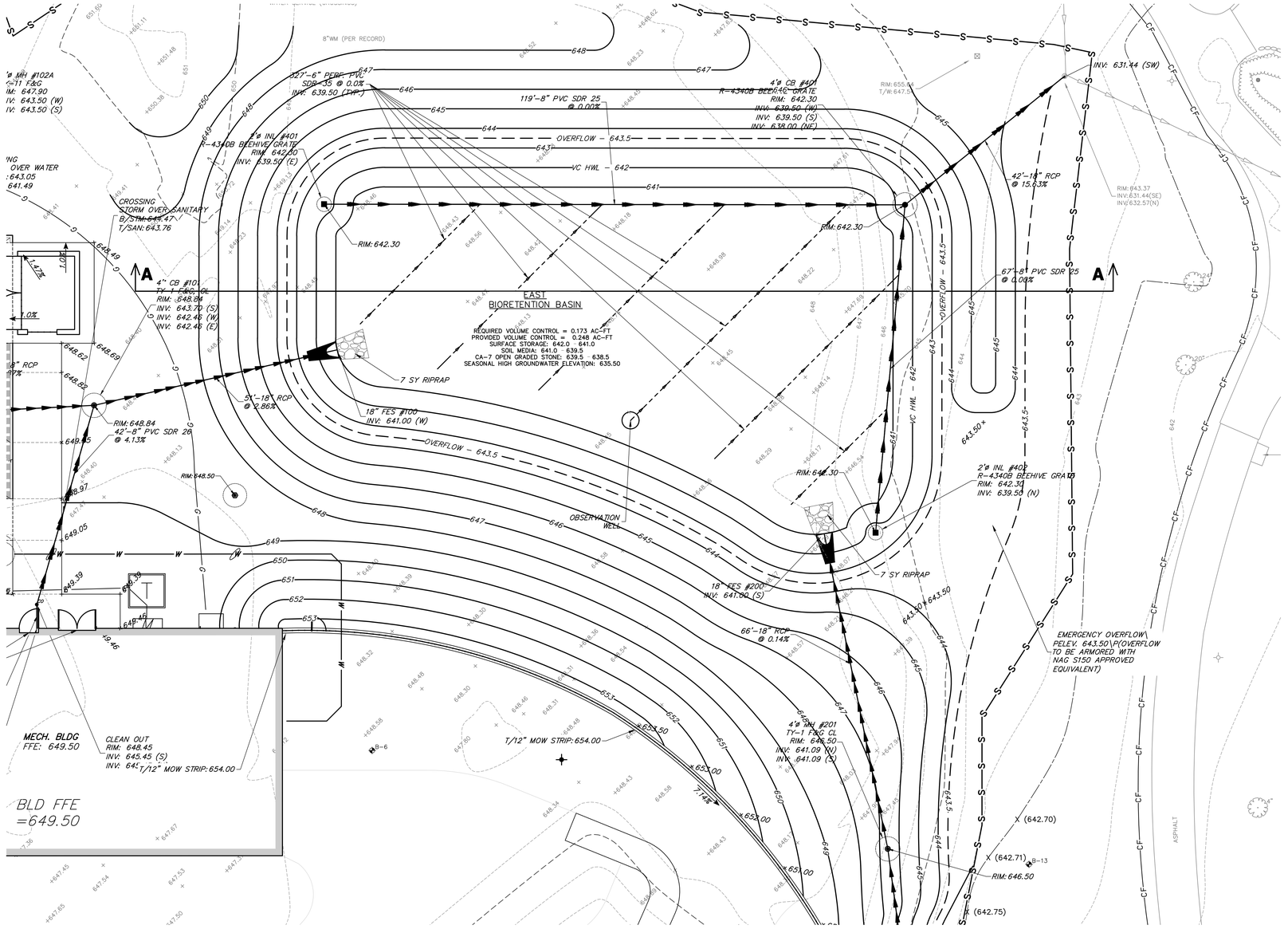
Stormwater Volume Control Volume Calculations - East Bioretention Facility

Volume Type	Elevations		Depth	Surface Area	Porosity	Storage Volume	Media Volume
	High	Low	(feet)	(sf)		Formula	V_d (cf)
Surface Storage	642.00	641.00	1.00	6,729	1.00	1.0 x V_d	6,729
Soil Media (Above Invert)	641.00	639.50	1.50	7,406	0.25	0.5 x 0.25 x V_d	1,389
Coarse Aggregate (Below Invert)	639.50	638.50	1.00	7,406	0.36	0.36 x V_d	2,666
						Total Provided	10,784 (CF)
							0.248 (Ac-Ft)

EAST VOLUME CONTROL REQUIRED: 0.173 (Ac-Ft)
EAST VOLUME CONTROL PROVIDED: 0.248 (Ac-Ft)

NOTE:
1. CONTRACTOR REQUIRED TO MAINTAIN A DEWATERED CONDITION WITHIN ALL STORMWATER CONTROL BASINS UNTIL VEGETATION HAS BEEN FULLY ESTABLISHED





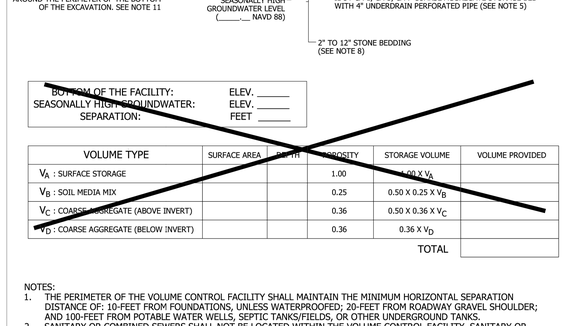
EAST BIORETENTION BASIN SCALE 1"=10'

STORMWATER CONTROL FACILITY AS-BUILT REQUIREMENTS

1. CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT: (PDF AND CAD FILE TO BE PROVIDED OF EACH)
   - 1.1. STORMWATER VOLUME CONTROL FACILITIES.
     - 1.1.1. TOP OF SUBGRADE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.2. TOP OF COARSE AGGREGATE ELEVATIONS AT BIORETENTION FACILITY.
     - 1.1.3. TOP OF SOIL MEDIA MIX AT BIORETENTION FACILITY.
     - 1.1.4. UNDERDRAIN ELEVATIONS AT BIORETENTION FACILITY
     - 1.1.5. TOP OF BERM, OVERFLOW, AND BOTTOM OF BASIN ELEVATIONS
     - 1.1.6. STRUCTURE AND FLARED END SECTIONS ELEVATIONS WITHIN BASIN
     - 1.1.7. AS-CONSTRUCTED VOLUMES WITHIN RESPECTIVE BASINS UP TO OVERFLOW ELEVATION
   - 1.2. LAWN OR OPEN SPACE AREAS
     - 1.2.1. SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
     - 1.2.2. SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES

N

GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 inch = 10 ft.



BOTTOM OF THE FACILITY: ELEV. _____
SEASONALLY HIGH GROUNDWATER: ELEV. _____
SEPARATION: FEET _____

VOLUME TYPE	SURFACE AREA	DEPTH	POROSITY	STORAGE VOLUME	VOLUME PROVIDED
V_A : SURFACE STORAGE			1.00	1.00 X V_A	
V_B : SOIL MEDIA MIX			0.25	0.50 X 0.25 X V_B	
V_C : COARSE AGGREGATE (ABOVE INVERT)			0.36	0.50 X 0.36 X V_C	
V_D : COARSE AGGREGATE (BELOW INVERT)			0.36	0.36 X V_D	
				TOTAL	

NOTES:
1. THE PERIMETER OF THE VOLUME CONTROL FACILITY SHALL MAINTAIN THE MINIMUM HORIZONTAL SEPARATION DISTANCE OF: 10-FEET FROM FOUNDATIONS, UNLESS WATERPROOFED; 20-FEET FROM ROADWAY GRAVEL SHOULDER; AND 100-FEET FROM POTABLE WATER WELLS, SEPTIC TANKS/FIELDS, OR OTHER UNDERGROUND TANKS.
2. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED WITHIN THE VOLUME CONTROL FACILITY. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED BELOW THE FOOTPRINT OF THE VOLUME CONTROL FACILITY. WHEN LOCAL CONDITIONS PREVENT THE SEWER FROM BEING LOCATED OUTSIDE THE FOOTPRINT OF THE FACILITY THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN QUALITY STANDARDS, OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
3. AVOID INSTALLATION ON SLOPES GREATER THAN 3.00%. AVOID COMPACTING NATIVE SOILS. SCARIFY ANY COMPACTED SOIL.
4. GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IUM MATERIAL SPECIFICATION 592. FOR WOVEN: APPARENT OPENING SIZE OF 0.50 MM (TABLE 1, CLASS 1). FOR NON WOVEN: APPARENT OPENING SIZE OF 0.30 MM (TABLE 2, CLASS II).
5. STONE STORAGE OPTIONS ARE IDOT CA-1, CA-3, CA-7, DISTRICT VULCAN MIX, OR APPROVED ALTERNATE. NO RECYCLED MATERIALS.
6. MINIMUM DISTANCE OF 2 FEET (3.5 FEET IN COMBINED SEWER AREAS) BETWEEN BOTTOM OF BMP AND SEASONALLY HIGH GROUNDWATER LEVEL.
7. UNDERDRAINS ARE REQUIRED IN TYPICAL CLAYEY SOILS WHERE INFILTRATION RATES ARE LESS THAN 0.5 INCH/HOUR. NO MORE THAN 1 UNDERDRAIN EVERY 30 FEET ON CENTER. PROVIDE A SOIL REPORT DOCUMENTING NATIVE INFILTRATION RATE TO FOREGO UNDERDRAINS. NO FILTER FABRIC COVER/SOCK.
8. MINIMUM UNDERDRAIN BEDDING OF 2 INCHES, MAXIMUM OF 12 INCHES.
9. MULCH LAYER SHALL BE HARDWOOD MULCH OR OTHER NON-FLOATING GROUND COVER.
10. FOLLOW THE REQUIRED PRETREATMENT MEASURES LISTED ON THE VOLUME CONTROL PRETREATMENT MEASURES DETAIL.
11. CHOKING STONE MAY BE SUBSTITUTED FOR GEOTEXTILE FABRIC, PER APPROVAL BY THE ENGINEER.

NOT TO SCALE

TECHNICAL GUIDANCE MANUAL — 10/11/18
BIORETENTION FACILITY DETAIL — STD. DWG. NO.1 — PAGE NO.1

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VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

GRADING - ENLARGEMENT

C21

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IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT THIS PLOT SCALE IS CORRECT

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

SEDIMENTATION AND EROSION CONTROL NOTES

A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE SOIL REOSION AND SEDIMENT CONTROL PLANS, THE STANDARD DETAILS, THE PLAN NARRATIVE, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE (SWPPP) AND THE ILLINOIS GENERAL CONSTRUCTION PERMIT (ILR10) AND BECOME FAMILIAR WITH THEIR CONTENTS AND SIGN THE CERTIFICATION FORMS.

C. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, PROJECT ENGINEER OR OWNER.

D. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

E. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

F. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

G. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

H. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. WATER USE MUST NOT CAUSE ADDITIONAL EROSION.

I. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

J. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE (SWPPP), SHALL BE INITIATED AS SOON AS PRACTICABLE.

K. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT, WASHING SHALL BE IMPLEMENTED AND PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

L. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED BY THE END OF THE DAY.

M. ON-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

N. ERODIBLE STOCKPILES MUST BE ENCLOSED WITH SILT FENCE BY THE END OF THE WORK DAY.

O. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

P. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

Q. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES

R. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

S. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.

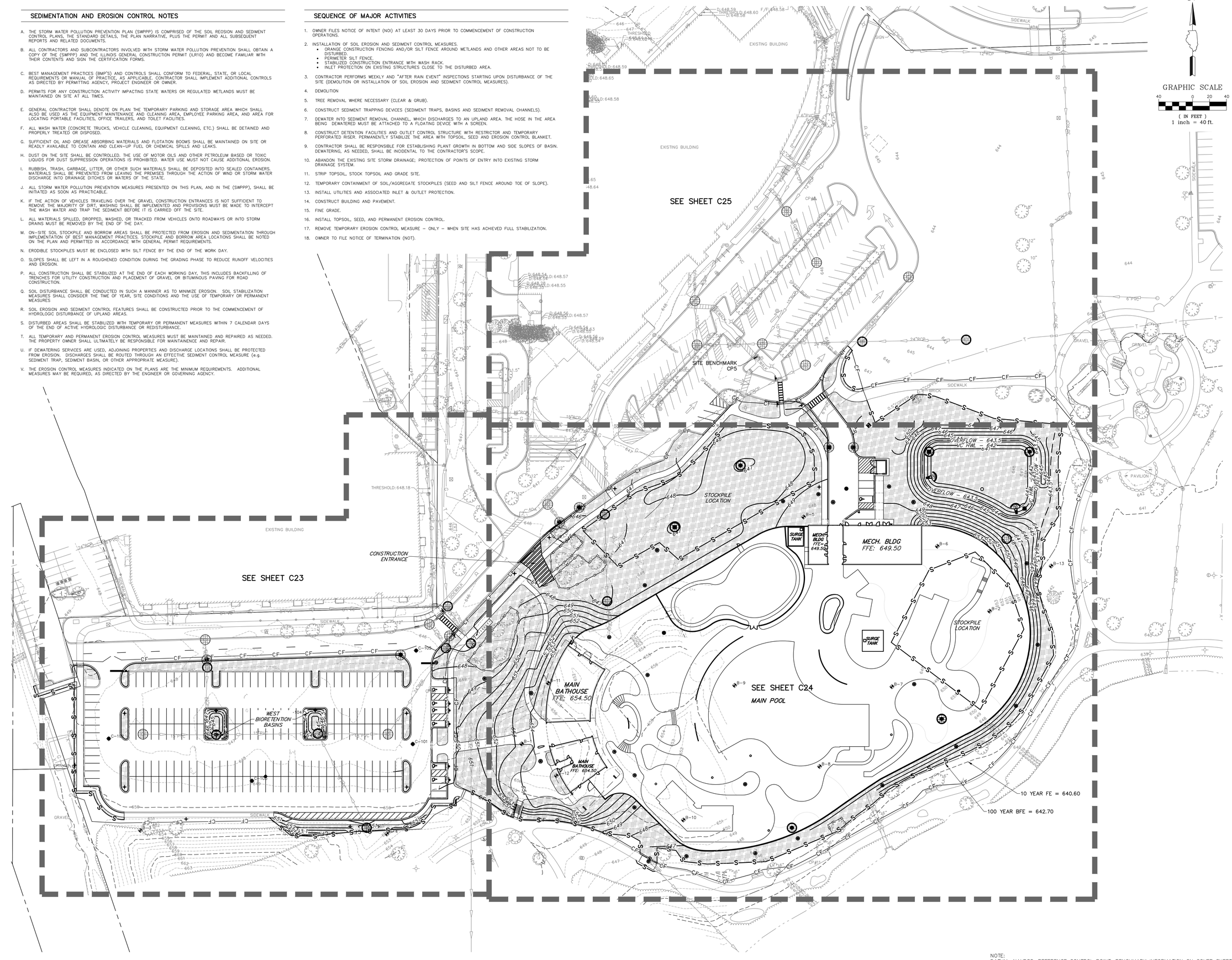
T. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL ULTIMATELY BE RESPONSIBLE FOR MAINTAINENCE AND REPAIR.

U. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).

V. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

SEQUENCE OF MAJOR ACTIVITIES

1. OWNER FILES NOTICE OF INTENT (NOI) AT LEAST 30 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
2. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES.
   - ORANGE CONSTRUCTION FENCING AND/OR SILT FENCE AROUND WETLANDS AND OTHER AREAS NOT TO BE DISTURBED.
   - PERIMETER SILT FENCE.
   - STABILIZED CONSTRUCTION ENTRANCE WITH WASH RACK.
   - INLET PROTECTION ON EXISTING STRUCTURES CLOSE TO THE DISTURBED AREA.
3. CONTRACTOR PERFORMS WEEKLY AND "AFTER RAIN EVENT" INSPECTIONS STARTING UPON DISTURBANCE OF THE SITE (DEMOLITION OR INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES).
4. DEMOLITION
5. TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB).
6. CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS AND SEDIMENT REMOVAL CHANNELS).
7. DEWATER INTO SEDIMENT REMOVAL CHANNEL, WHICH DISCHARGES TO AN UPLAND AREA. THE HOSE IN THE AREA BEING DEWATERED MUST BE ATTACHED TO A FLOATING DEVICE WITH A SCREEN.
8. CONSTRUCT DETENTION FACILITIES AND OUTLET CONTROL STRUCTURE WITH RESTRICTOR AND TEMPORARY PERFORATED RISER. PERMANENTLY STABILIZE THE AREA WITH TOPSOIL, SEED AND EROSION CONTROL BLANKET.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING PLANT GROWTH IN BOTTOM AND SIDE SLOPES OF BASIN. DEWATERING, AS NEEDED, SHALL BE INCIDENTAL TO THE CONTRACTOR'S SCOPE.
10. ABANDON THE EXISTING SITE STORM DRAINAGE; PROTECTION OF POINTS OF ENTRY INTO EXISTING STORM DRAINAGE SYSTEM.
11. STRIP TOPSOIL, STOCK TOPSOIL AND GRADE SITE.
12. TEMPORARY CONTAINMENT OF SOIL/AGGREGATE STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE).
13. INSTALL UTILITIES AND ASSOCIATED INLET & OUTLET PROTECTION.
14. CONSTRUCT BUILDING AND PAVEMENT.
15. FINE GRADE.
16. INSTALL TOPSOIL, SEED, AND PERMANENT EROSION CONTROL.
17. REMOVE TEMPORARY EROSION CONTROL MEASURE – ONLY – WHEN SITE HAS ACHIEVED FULL STABILIZATION.
18. OWNER TO FILE NOTICE OF TERMINATION (NOT).



NOTE:
DATUM: NAVD88, REFERENCE CONTROL POINT, BENCHMARK INFORMATION ON COVER SHEET.

N

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

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SOIL EROSION AND SEDIMENT CONTROL PLAN - OVERALL

C22

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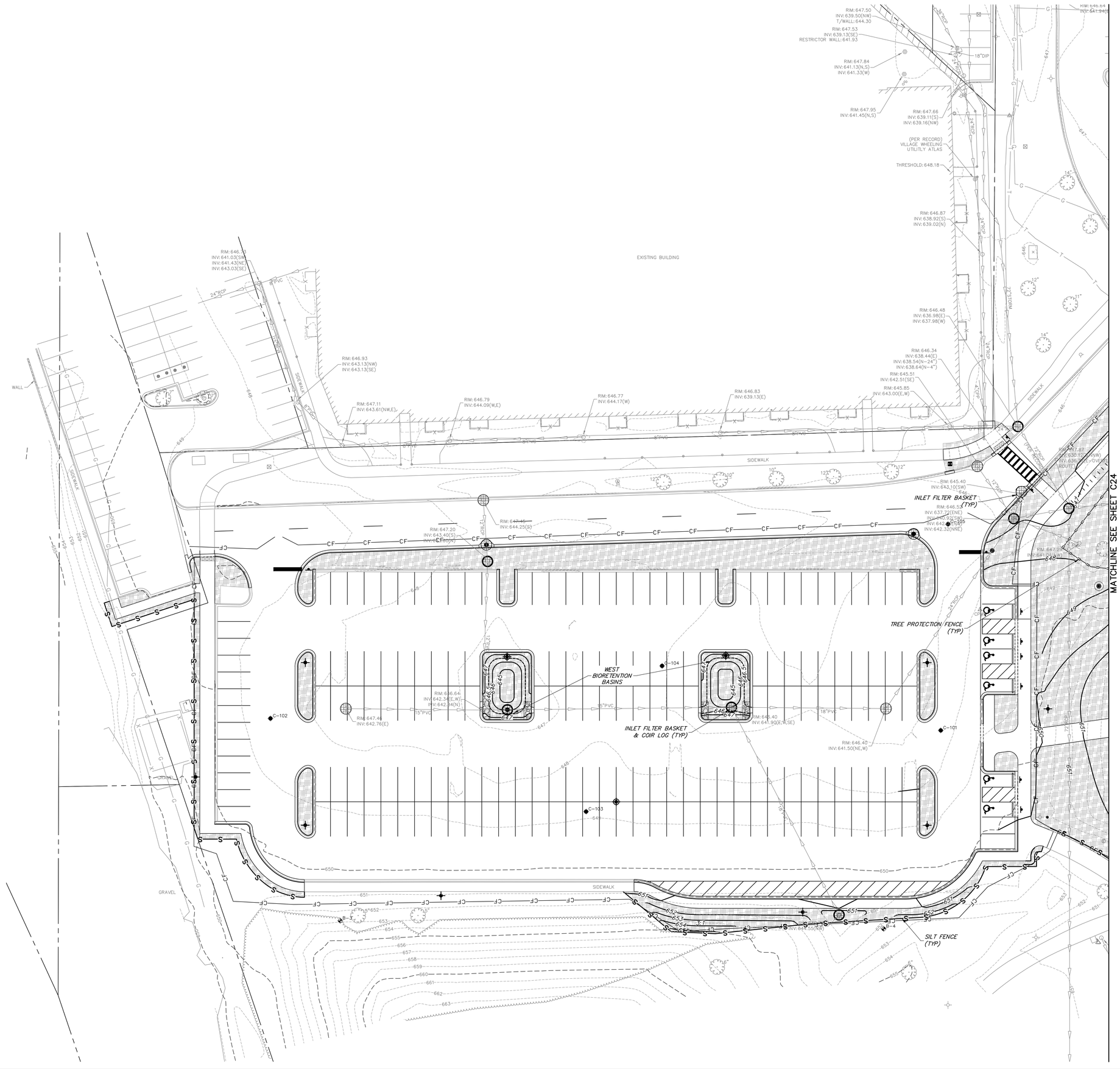

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

SESC LEGEND

- TOPSOIL FURNISH AND PLACE, 6" MIN. – EROSION CONTROL BLANKET NAG S75 (WHERE SLOPE IS 5:1 OR GREATER)
- STONE RIP-RAP, GRAD NO. RR3
- ROCK CONSTRUCTION ENTRANCE
- SILT FENCE INSTALLATION
- TREE PROTECTION FENCE
- STORM SEWER INLET PROTECTION: – INLET FILTER BASKET
- – INLET FILTER BASKET & COIR LOG
- COIR LOG
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

NOTE:
SEE SHEET C22 FOR SEDIMENTATION AND EROSION CONTROL NOTES

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SOIL EROSION AND SEDIMENT CONTROL PLAN

C23

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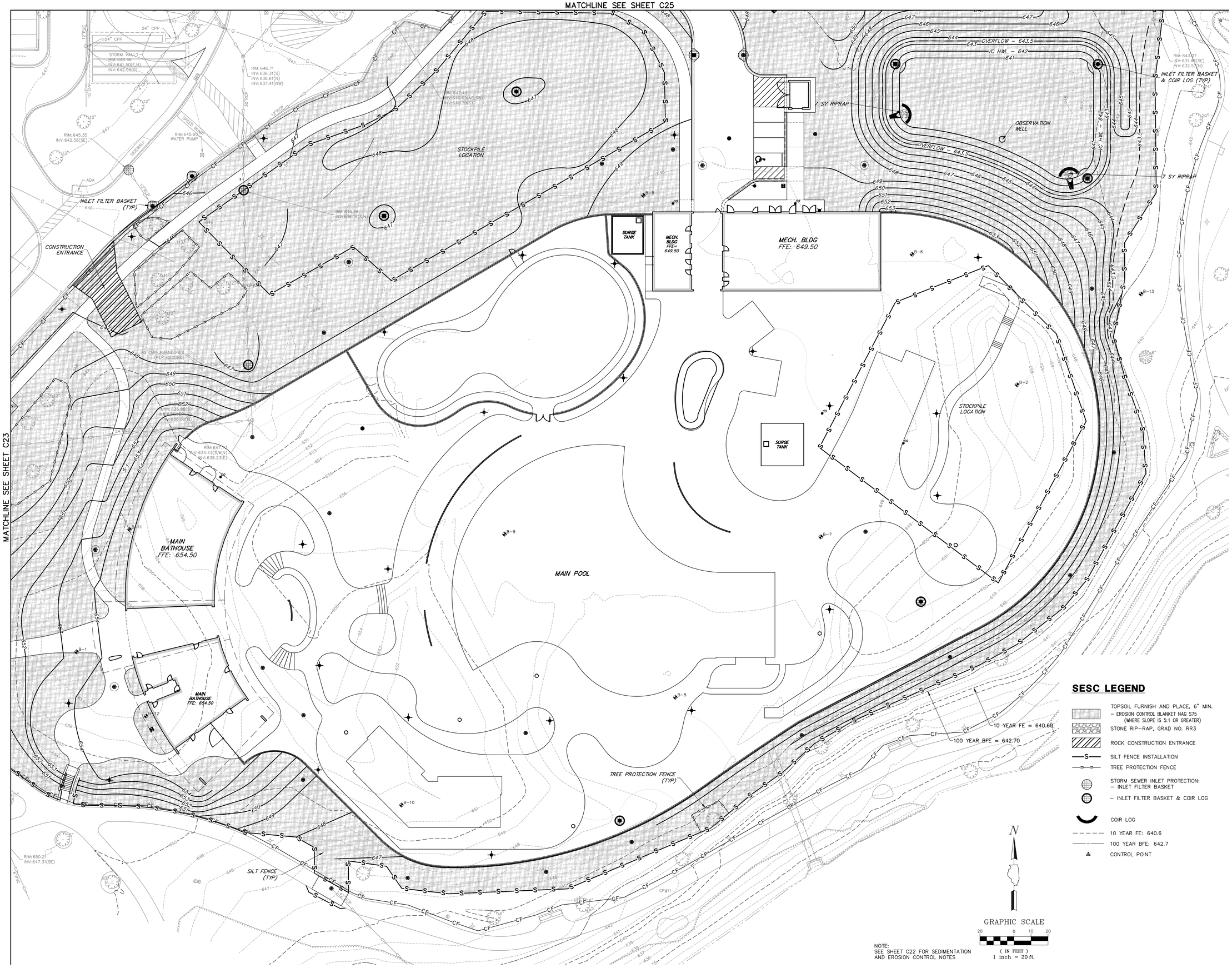
MATCHLINE SEE SHEET C25

MATCHLINE SEE SHEET C23



SESC LEGEND

- TOPSOIL FURNISH AND PLACE, 6" MIN. – EROSION CONTROL BLANKET NAG S75 (WHERE SLOPE IS 5:1 OR GREATER)
- STONE RIP–RAP, GRAD NO. RR3
- ROCK CONSTRUCTION ENTRANCE
- SILT FENCE INSTALLATION
- TREE PROTECTION FENCE
- STORM SEWER INLET PROTECTION: – INLET FILTER BASKET
- – INLET FILTER BASKET & COIR LOG
- COIR LOG
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

N

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

NOTE:
SEE SHEET C22 FOR SEDIMENTATION AND EROSION CONTROL NOTES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL SCALE

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

SOIL EROSION AND SEDIMENT CONTROL PLAN

C24

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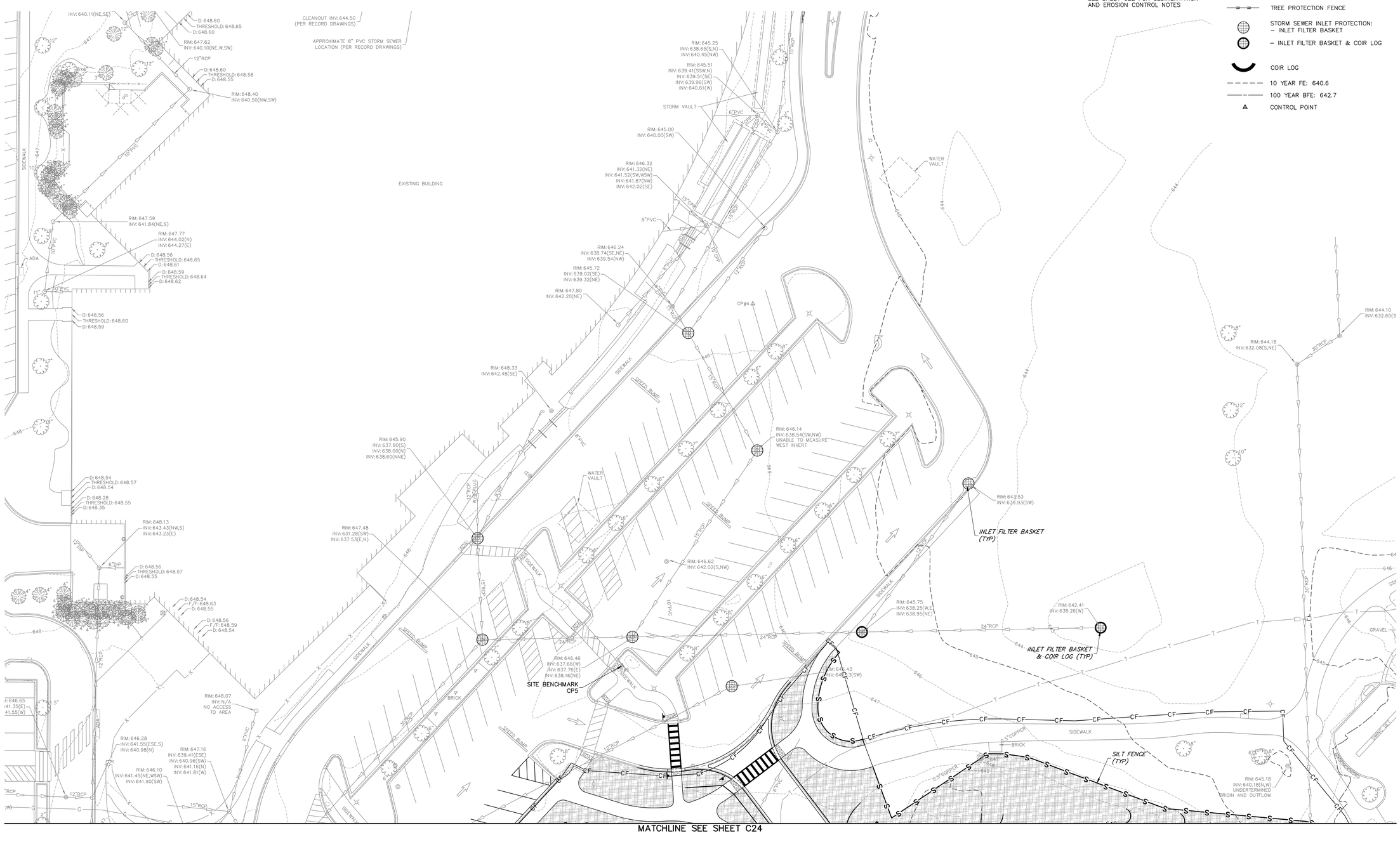
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 1/8 INCH SCREEN DISPLAY SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN PROPER PROPORTION



NOTE:
SEE SHEET C22 FOR SEDIMENTATION AND EROSION CONTROL NOTES

N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

SESC LEGEND

- TOPSOIL FURNISH AND PLACE, 6" MIN.
  - EROSION CONTROL BLANKET NAG S75 (WHERE SLOPE IS 5:1 OR GREATER)
- STONE RIP-RAP, GRAD NO. RR3
- ROCK CONSTRUCTION ENTRANCE
- SILT FENCE INSTALLATION
- TREE PROTECTION FENCE
- STORM SEWER INLET PROTECTION:
  - INLET FILTER BASKET
  - INLET FILTER BASKET & COIR LOG
- COIR LOG
- 10 YEAR FE: 640.6
- 100 YEAR BFE: 642.7
- CONTROL POINT

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LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
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ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

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SOIL EROSION AND SEDIMENT CONTROL PLAN

C25

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PERMIT COVERAGE AND REQUIREMENTS

The management practices, controls and other provisions contained in this Storm Water Pollution Prevention Plan (SWPPP) are at least as protective as the requirements contained in the Illinois Environmental Protection Agency (IEPA) NPDES ILR10 permit, and the Illinois Urban Manual, both latest editions. Requirements specified in plans or permits for this project approved by local officials that are applicable to protecting surface water resources are, upon submittal of a NOI to be authorized to discharge under the ILR10 permit, incorporated by reference and are enforceable under the ILR10 permit even if they are not specifically included in the storm water pollution prevention plan. This provision does not apply to provisions of master plans, comprehensive plans, non–enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for this project.

CONTROL IMPLEMENTATION SCHEDULE

Perimeter controls of the site and stabilized construction entrance shall be installed prior to demolition, clearing and grubbing. Perimeter controls shall be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Existing storm sewer inlets that will function during the construction process should have the sediment control measures installed as indicated prior to land – disturbing activities, including demolition and site clearing. In addition, sediment control measures shall be installed in newly constructed inlets immediately after their installation is complete. Erosion control blanket may be used to stabilize the construction areas where the final grade has been reached but cannot be permanently stabilized due to planting season restrictions. Permanent controls, such as riprap, shall be installed at each storm sewer outfall structure prior to any storm water discharge. Temporary perimeter controls shall only be removed after final stabilization of those portions of the site upward of the perimeter control. Temporary drop–in sediment bags will be installed in all inlets to prevent infiltration of sediment–laden ground water into existing and proposed structures. Sediment bags shall remain in place until placement of base course in paved areas or until vegetation has taken hold. Care shall be taken when removing sediment bags to avoid release of sediment into the storm sewer.

POST CONSTRUCTION STORM WATER MANAGEMENT

Storm water management devices installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed may include storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). Velocity dissipation devices shall be located (i.e. riprap) at discharge locations and along the length of any outfall channel as necessary to provide a non–erosive velocity flow from the structure to the water course so that the natural physical and biological characteristics and functions are maintained and protected. Structural measures should be placed on upland soils to the degree attainable. The contractor is responsible for the installation and maintenance of storm water management measures until final stabilization of the site.

SOIL EROSION AND SEDIMENT CONTROLS

The appropriate soil erosion and sediment controls shall be implemented onsite and shall be modified to reflect the current phase of construction. All damaged or defective temporary sediment and erosion control measures must be repaired or replaced as soon as possible to maintain NPDES compliance.

Unless otherwise indicated, all vegetative and structural erosion and sediment control practices shall be installed according to the Standard Practice. The contractor shall be responsible for the installation of any additional erosion and sediment control measures necessary to prevent erosion and sedimentation as determined by the engineer, owner, or permitting authority.

1. Stabilization Practices
Areas that will not be paved or covered with non–erosive material shall be stabilized as indicated on the erosion control plan using procedures in substantial conformance with the Illinois Urban Manual. Stabilization practices may include: temporarily seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, staged or staggered development, and other appropriate measures.

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas must be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible but not later than 14 days from the initiation of stabilization work in an area. Exceptions to these time frames are specified below:

(i) Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
(ii) On areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method can be used. Temporary stabilization techniques and materials shall be described in the SWPPP.

2. Structural Practices
Structural practices will be utilized to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins.

Structural practices should be placed on upland soils to the degree practicable. The installation of these devices may be subject to Section 404 of the CWA.

(i) The following design requirements apply to sediment basins if such structural practices will be installed to reduce sediment concentrations in storm water discharges:
  a. When discharging from the sediment basin, utilize outlet structures that withdraw water from the surface in order to minimize the discharges.
  b. Prevent erosion of the sediment basin using stabilization controls (e.g., erosion control blankets), at the inlet and outlet using erosion controls and velocity dissipation devices.
  c. Sediment basins shall be designed to facilitate maintenance, including sediment removal from the basins, as necessary.

(ii) The following requirements apply to protecting storm drain inlets:
  a. Install inlet protection measures that removes sediment from discharges prior to entry into any storm drain inlet that carries stormwater flow from your site to a water of the U.S., provided you have authority to access the storm drain inlet.
  b. Clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there Is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same business day in which it is found or by the end of the following business day if removal by the same business day is not feasible.

OFF–SITE VEHICLE TRACKING

A stabilized pad of aggregate underlain with filter fabric shall be located at any point where traffic will be entering or leaving the construction site to or from a public right–of–way, street, alley, sidewalk, or parking area to help reduce vehicle tracking of sediments. Roads shall be swept as needed to reduce excess sediment, dirt or stone tracked from the site. Accumulated sediment and stone shall be removed from the stabilized construction entrance as needed. Water runoff from such washing area shall be periodically inspected and repaired as necessary throughout the life of the project. Vehicles hauling erodible material to and from the construction site should be covered with a tarp. The stabilized construction entrance shall be installed prior to any soil disturbance (including demolition) and removed prior to any paving.

DUST CONTROL

As requested, a water truck will be used to limit the amount of dust leaving the site. The following list of control measures may also be implemented on–site to limit the generation of dust as needed: Sprinkling/irrigation, Vegetative cover, Mulch, Spray–on soil treatments, Tillage, Stone.

WASTE MANAGEMENT

No solid materials, including building materials, shall be discharged to protected natural areas, a storm sewer system or Waters of the State (except as authorized by a Section 404 permit). All waste materials shall be collected and stored in approved receptacles. No wastes shall be placed in any location other than in the approved containers appropriate for the materials being discarded. There shall be no liquid wastes deposited into dumpsters or other containers which may leak. Receptacles with deficiencies shall be replaced as soon as possible and the appropriate clean–up procedure shall take place, if necessary. Construction waste material is not to be buried on site. Waste disposal should comply with all local, State and Federal regulations. Hazardous material shall not be stored on site. Any hazardous waste should be disposed of in the manner specified by local or State regulation or by the manufacturer.

MATERIAL STORAGE

Materials and or contaminants shall be stored in a manner that minimizes the potential to discharge into storm drains or watercourses. An on–site area shall be designated for material delivery and storage. All materials kept on–site shall be stored in their original containers with legible labels, and if possible, under a roof or other enclosure. Labels should be replaced if damaged or difficult to read. Bermed–off storage areas are an acceptable control measure to prevent contamination of storm water. MSD sheets shall be available for referencing cleanup procedures. Any release of chemicals/contaminants shall be immediately cleaned up and disposed of properly. Contractors shall immediately report all spills to the Primary Contact, who shall notify the appropriate agencies, if needed. To reduce the risks associated with hazardous materials on–site, hazardous products shall be kept in original containers unless they are not re–sealable. The original labels and MSD data shall be retained on–site at all times. Hazardous materials and all other materials on–site shall be stored in accordance with manufacturer's MSDS specifications. When disposing of hazardous materials, follow manufacturers' or local and State recommended methods on Local, State and Federal regulations.

DE–WATERING OPERATIONS

During de–watering/pumping operations, only uncontaminated water should be allowed to discharge to protected natural areas, Waters of the State or to a storm sewer system. Inlet hoses should be placed in a stabilized sump pit or floated at the surface of the water with a screen in order to limit the amount of sediment intake. Pumping operations may be discharged to a stabilized area that consists of an energy dissipating device (i.e. stone) on a stabilized surface, sediment filter bag on a stabilized surface or a sediment removal channel. Adequate erosion controls should be used during de–watering operations as necessary. Stabilized conveyance channels should be installed to direct water to the desired location as applicable. Additional erosion control and sediment control measures may be installed at the outlet area at the discretion of the Primary Contact or Engineer.

SANITARY FACILITIES

To the extent practicable, sanitary facilities shall be located at a minimum 8 feet behind the curb and gutter of the internal roads and be located in an area that does not drain to any protected natural area, Waters of the State or storm water structures. Sanitary facilities shall be anchored to the ground to prevent tipping over. Sanitary facilities located on impervious surfaces shall be placed on top of a secondary containment device or be surrounded by a control device (i.e. gravel–bag berm).

CONCRETE WASTE MANAGEMENT

Concrete mixer trucks shall only perform washouts in designated areas. Concrete waste or washout is not allowed in the street or allowed to reach a storm water drainage system or watercourse. A sign shall be posted at each location to identify the washout. Concrete washout areas should be located at least 50 feet from a storm water drainage inlets or watercourse. Concrete washout areas shall be located at least 10 feet behind the curb, if the washout area is adjacent to a paved road. A stabilized entrance as detailed on the erosion control plan shall be installed at each washout area. The washout areas shall be of sufficient volume to completely contain all liquid and concrete waste materials including enough capacity for anticipated levels of rainwater. The dried concrete waste material shall be picked up and disposed of properly when 75% of the capacity is reached. Hardened concrete can be properly recycled and reused on–site or hauled off–site to an appropriate facility.

SPILL PREVENTIONS

Discharges of hazardous substances or oil caused by a spill are not authorized by the ILR10 permit. If a spill occurs, notify the Primary Contact immediately. The construction site shall have the capacity to control, contain and remove spills if they occur. Spills shall be cleaned up immediately in accordance with MSD sheets and shall not be buried on–site or washed into storm sewer drainage inlets, drainageways or Waters of the State.

Spills in excess of Federal Reportable Quantities (as established under 40 CFR Parts 110, 117 or 302) shall be reported to the National Response Center by calling (800) 424–8802. MSDS often include information on federal Reportable Quantities for materials. Spills of toxic or hazardous materials shall be reported to the appropriate State or local government IEPA, regardless of size. When cleaning up a spill, the area shall be kept well ventilated and appropriate personal protective equipment shall be used to minimize injury from contact with a hazardous substance.

In addition to proper Waste Management, Concrete Waste Management, Concrete Cutting, Vehicle Storage and Maintenance, Material Storage and Sanitary Station protection, the following minimum practices shall be followed to reduce the risk of spills:
- Petroleum products shall be stored in tightly sealed and clearly labeled containers.
- All paint containers shall be tightly sealed and stored when not required for use. Excess paint shall be disposed of according to the manufacturer's instructions or State and local regulations and shall not be discharged to the storm sewer.
- Contractors shall follow manufacturers' recommendations for proper use and disposal of materials.

CONCRETE CUTTING

Concrete waste management should be implemented to contain and dispose of saw–cutting slurries. Concrete cutting shall not take place during or immediately after a rainfall event. Waste generated from concrete cutting should be cleaned up and disposed into the concrete washout facility described above.

VEHICLE STORAGE AND MAINTENENCE

When not in use, vehicles utilized in the development operations of the site shall be stored in a designated upland area away from any natural or created watercourse, pond, drainage–way or storm drain. Whenever possible, vehicle maintenance, fueling, and washing will occur off–site. If allowed on–site, vehicle maintenance (including both routine maintenance as well as on–site repairs) shall be made within the designated area to prevent the migration of mechanical fluids (oil, antifreeze, etc.) into watercourses, wetlands or storm drains. Drip pans or absorbent pads shall be used for all vehicle and equipment maintenance activities that involve grease, oil, solvents or other vehicle fluids. Construction vehicles shall be inspected frequently to identify any leaks. Leaks shall be repaired immediately, or the vehicle should be removed from the site. Dispose of all used oil, antifreeze, solvents and other automotive–related chemicals according to manufacturer MSDS instructions. Contractors shall immediately report spills to the Primary Contact.

NON–STORM WATER DISCHARGES

Authorized Discharges

The following non–storm water discharges may be authorized by this permit provided the non–storm water component of the discharge is in compliance with Part IV.D.6 (Non–Storm Water Discharges) of the ILR10 permit:
- Discharges from firefighting activities
- Water main flushing
- Fire hydrant flushing
- Watering for Dust Control
- Irrigation drainage for vegetative growth for seeding, etc.
- Uncontaminated groundwater

The pollution prevention measures described below will be implemented for non–storm water components of the discharge:
- The fire hydrant and water main should not be flushed directly on the exposed area or subgrade of the pavement. Hoses should be used to direct the flow onto a stabilized area.
- Erosion due to irrigation of seeding shall be minimized.

Prohibited Discharges

The following non–storm water discharges are prohibited by this permit:
- Concrete and wastewater from washout of concrete (unless managed by an appropriate control)
- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials, fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
- Soaps, solvents, detergents
- Toxic or hazardous substances from a spill or other release

DISCHARGES TO RECEIVING WATERS WITH AN APPROVED TMDL

Discharges to waters for which there is an approved Total Maximum Daily Load (TMDL) waste load allocation for sediment or a parameter that addresses sediment (total suspended solids, turbidity or siltation) are not eligible for coverage under the ILR10 permit unless the owner/operator develops and certifies a SWPPP that is consistent with allocations listed in the TMDL. To be eligible for coverage under the ILR10 permit, operators must incorporate into their SWPPP any conditions and/or Best Management Practices (BMPs) applicable to their discharges necessary for consistency with the TMDL within any timeframes established in the TMDL. If a specific numeric allocation has been established that would apply to the project's discharges, the operator must incorporate that allocation into its SWPPP and implement necessary steps to meet it.

INSPECTIONS

Qualified personnel (provided by the permittee or contractor– see Table 1.) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days, and within 24 hours of the end of a storm or by the end of the following business or work day that is 0.5 inches or greater.
- Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions (when ground and/or air temperatures are at or below 32°F). Weekly inspections will recommence when construction activities are conducted, or if there is a 0.5 inches or greater rain event, or a discharge due to snowmelt occurs.
- Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWPPP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- Based on the results of the inspection, the description of potential pollutant sources identified in the SWPPP and the pollution prevention control measures identified in the SWPPP shall be revised as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.
- A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the permit coverage expires or is terminated. All inspection reports shall be retained at the construction site. The reports shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit. Any flooding or other unsafe conditions that delay inspections shall be documented in the inspection report.
- The permittee (or qualified inspector) shall notify the appropriate Agency Field Operations Section office by email at epa.swnoncomp@illinois.gov, telephone or fax within 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention plan observed during any inspection conducted, or for violations of any condition of this permit.
- The permittee (or qualified inspector) shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the SWPPP observed during an inspection conducted, including those not required by the SWPPP. Submission shall be on forms provided by the IEPA and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact, which may have resulted from the noncompliance. Corrective actions must be undertaken immediately to address the identified non–compliance issue(s).
- All reports of non–compliance shall be signed by a responsible authority as defined in Part VI.G (Signatory Requirements).
- After the initial contact has been made with the appropriate Agency Field Operations Section Office, all reports of noncompliance shall be mailed to the IEPA at the following address:

  Illinois Environmental Protection Agency
  Division of Water Pollution Control
  Compliance Assurance Section
  1021 North Grand Avenue East
  Post Office Box 19276
  Springfield, Illinois 62794–9276

CORRECTIVE ACTIONS

The Contractor must take corrective actions to address any of the following conditions identified on site:
(i) A stormwater control needs repair or replacement
(ii) A stormwater control necessary to comply with the requirements of this permit was never installed or was installed incorrectly.
(iii) Site discharges are causing an exceedance of applicable water quality standards.
(iv) A prohibited discharge has occurred.

Corrective Actions shall be completed as soon as possible and documented within seven (7) days in an Inspection Report or report of noncompliance. If it is infeasible to complete the installation or repair within 7 calendar days, you must document in your records why it is infeasible to complete the installation or repair within the 7–day timeframe and document your schedule for installing the stormwater control(s) and making it operational as soon as feasible after the 7–day timeframe.

RECORDKEEPING

The permittee shall retain copies of the SWPPP and all reports and notices required by the ILR10 permit, and records of all data used to complete the Notice of Intent to be covered by the ILR10 permit, for a period of at least three years from the date that the permit coverage expires or is terminated unless extended by request of the IEPA. In addition, the contractor shall retain a copy of the SWPPP required by the ILR10 permit at the construction site from the date of project initiation to the date of final stabilization.

LOG OF MAJOR GRADING AND CONSTRUCTION ACTIVITIES

A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in this SWPPP.

KEEPING PLANS CURRENT

The permittee or contractor shall amend the SWPPP whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for discharge of pollutants to Waters of the State and which has not otherwise been addressed in the SWPPP or if the SWPPP proves to be ineffective in eliminating or significantly minimizing pollutants, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the SWPPP by signing the contractor's certification statement.The SWPPP and site map must be modified within 7 days for any changes to construction plans, stormwater controls or other activities at the site that are no longer accurately reflected in the SWPPP. Any revisions of the documents for the SWPPP shall be kept on site at all times.

FINAL STABILIZATION

Final Stabilization has occurred when all soil disturbing activities at the site have been completed, and either of the two following conditions have been met:

(i) A uniform (e.g. evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
(ii) Equivalent permanent stabilization measures (such as the use of riprap, gabions or geotextiles) have been employed.

For individual lots in residential construction, final stabilization has occurred when either:

(i) The homebuilder has completed final stabilization as specified above, or
(ii) The homebuilder has established temporary stabilization including perimeter controls for individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need to, and the benefits of, final stabilization.

When the site has been finally stabilized and all storm water discharges from construction sites that are authorized by the ILR10 permit are eliminated, the permittee of the facility must submit a completed Notice of Termination that is signed in accordance with Part VI.G (Signatory Requirements) of the ILR10 permit. Elimination of storm water discharges associated with industrial activity means that all disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated.

BMP Operation and Maintenance

Silt Fence

Silt fences shall be removed when they have served their usefulness, but not before the upslope areas have been permanently stabilized.

Silt fences shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.

Should the fabric decompose or become ineffective prior to the end of the expected usable life and the fence still is necessary, the fabric or the entire system shall be replaced promptly.

Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one–half the height of the silt fence.

Any sediment deposits remaining in place after the silt fence is no longer required shall be dressed to conform to the existing grade, a seedbed prepared, and the site vegetated.

Stabilized Construction Entrance

The entrance shall be maintained in a condition that will prevent tracking of sediment onto public right–of–ways or streets. This may require periodic top dressing with additional aggregate. All sediment spilled, dropped, or washed onto public right–of–ways must be removed immediately. Periodic inspection and needed maintenance shall be provided after each rain.

Inlet Protection

Each inlet protection practice or device shall be inspected after every runoff event. Accumulated sediment shall be removed per manufacturers' directions but not less than when the capacity for sediment storage has been reduced by half. Sediment that has been removed shall be placed such that it will not reenter the storm drain system.

Repairs or replacement of inlet protection devices shall be made immediately.

For devices to be kept in place in the winter season, areas shall be cleared of any sediment accumulation and prepared or protected for snow removal operations.

Inlet protection practices shall be removed upon job completion.

Erosion Control Blanket

Inspect all erosion control blankets periodically and after rainstorms to check for damage due to water running under the blanket or if the blankets that have been displaced by wind. Any areas where water seeped under the blanket, more staples may be needed per given area or more frequent anchoring trenches installed with better compaction. If significant erosion has occurred under the blanket, regrading and reseeding may also be necessary. Any erosion control blankets that have been displaced will need to be re–installed and re–stapled. This may indicate that the wrong type of blanket was chosen. One may need to revisit the site characteristics and then select a different type of erosion control blanket or chose a different practice.

Temporary Concrete Washout Facility

Temporary concrete washout facilities shall be maintained to provide adequate holding capacity with a minimum freeboard of 100 mm (4 in.) for above grade facilities and 300 mm (12 in.) for below grade facilities. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete or slurry and returning the facilities to a functional condition.

Existing facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is two–thirds full.

Temporary concrete washout facilities shall be inspected for damage (e.g. tears in plastic liner, missing sand bags, etc.). Damaged facilities shall be repaired promptly.

Portable Sediment Tank

The tank shall be cleaned out when one–third of the storage volume is filled with sediment. All sediment collected in the tank shall be disposed of in an approved sediment trapping device (i.e. temporary sediment trap) or on the construction site or as approved by the engineer/inspector.

Temporary Sediment Trap

Inspect temporary sediment traps after each period of significant rainfall. Remove sediment and restore the trap to its original dimensions when the sediment has accumulated to one–half the design depth of the permanent pool. Place the sediment that is removed in the designated disposal area and replace the contaminated part of the gravel facing.

Check the structure for damage from erosion or piping. Periodically check the depth of the spillway to ensure it is a minimum of 1.5 feet below the low point of the embankment to slightly above the design grade. Any rip rap displaced from the spillway must be replaced immediately.

After all sediment–producing areas have been permanently stabilized, remove the structure and all unstable sediment. Smooth the area to blend with the adjoining areas and stabilize properly.

Ditch Check (Manufactured)

Manufactured ditch check shall be inspected every 7 days and after each 1/2" rainfall or snow equivalent.

Sediment shall be removed from the upstream of the ditch check when sediment has reached one–half the height of the ditch check. Inspect any fabric for tears or dislodging after the sediment is removed and repair or replace immediately. Additional requirements may apply per manufacturer specifications or permit requirements.

Products shall be maintained in same condition as when installed. Rolled erosion control ditch checks must be replaced whenever tears, splits, unraveling or compressed straw or excelsior is apparent.

Any fabric used as a base or apron underneath the plastic permeable or synthetic porous runoff control structure ditch checks that is torn or dislodged must be replaced or repaired.

Remove debris (litter, cornstalks) when observed.

Water or sediment going around the ditch check indicates incorrect installation or maintenance is required. The flow of water over the center of the ditch check or through the device must be reestablished. The manufactured ditch check may need length up the side slope, sediment removed from pores, or the flow velocities are too great for the type of ditch check.

Manufactured ditch checks are not designed to be a part are not designed to be part of the permanent storm water management system. Their material components are not conducive to being incorporated into soils once they have reached their useful life.

Remove manufactured ditch checks once all upslope areas are stabilized, and swale or ditch stabilization is complete. The biodegradable form of plastic permeable ditch checks can be left in place on top of the permanent stabilization such as blankets to provide velocity reductions, provided they are not a hazard to mowing operations. Vegetated ditch checks may remain in place within the ditch or swale if permanent vegetation is desired such as in the case of establishing a vegetated swale.

Rock Check Dam

On active construction sites, the rock check dams shall be inspected at least once every 7 days and within 24 hours of a rainfall of 0.5 inches or more. If any erosion has taken place around the or below the rock check dam or if rocks have been dislodged, repairs shall be made to prevent further damage. Sediment shall be removed once has accumulated to one–half the height of the rock check dam. The center of the rock check dam shall also be inspected periodically to ensure that the center of the dam is lower than the sides.

Unless they will be incorporated into permanent stormwater management control, rock check dams must be removed when useful life has been completed. In temporary ditches and swales, rock check dams should be removed, and the ditch filled in when they are no longer needed. In permanent structures rock check dams should be removed when the grass has matured sufficiently to protect the ditch or swale. The area beneath the rock check dams should be seeded and mulched immediately after they are removed.

For rock check dams that are made a part of stormwater management control, regular inspections should be made to see if any erosion has occurred around or below the dam and if any rock has been dislodged. Immediately make all needed repairs to prevent further damage. If sediment trapping is to be a continuing function of the rock check dam, the sediment shall be removed when it has accumulated to one–half the depth of the rock check dam.

Rock Outlet Protection

Inspect outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs.

Dewatering

The frequency of inspections shall depend on the dewatering method, amount of discharge, potential damage, and quality of the receiving bodies of water.

1. Inspections shall be conducted to ensure proper operation and compliance with any permits or water standards.
2. Accumulated sediment shall be removed from the flow area and temporary diversions shall be repaired, as required.
3. Outlet areas shall be checked, and repairs shall be made in a timely manner, as needed.
4. Pump outlets shall be inspected for erosion, and sumps shall be inspected for accumulated sediment.
5. Dewatering bags shall be stopped and replaced when half full of sediment or when the pump discharge has reduced to an impractical rate.
6. If the receiving area is showing any signs of cloudy water, erosion, or sediment accumulation, discharges shall be stopped immediately once safety and property damage concerns have been addressed.
7. Sediment shall be disposed in accordance with all applicable laws and regulations.

Discharges from Dewatering Activities

Discharges from dewatering activities, including from dewatering of trenches and excavations, are allowable if managed by appropriate controls:
- Dewatering discharges shall be treated or controlled to minimize discharge of pollutants.
- The discharge shall not include visible floating solids or foam.
- An oil–water separator (or suitable filtration device) shall be used to treat oil, grease, or other similar products if dewatering water is found to contain these materials.
- To the extent feasible, use vegetated, upland areas of the site to infiltrate dewatering water before discharging.
- Backwash water (water used to clean any filters used as part of stormwater treatment) must be properly treated or hauled off site for disposal.
- Dewatering treatment devices shall be properly maintained as described above.

Natural Buffers

For any stormwater discharges from construction activities within 50 feet of a Waters of the United States, except for activities for water–dependent structures authorized by a Section 404 permit, the permittee shall:
(i) Provide a 50–foot undisturbed natural buffer between the construction activity and the Waters of the United States; or
(ii) Provide additional erosion and sediment controls within that area.

TABLE 1	
ACTION	RESPONSIBLE PARTY
Provide qualified personnel for weekly and 0.5 inch rain event inspections	Contractor ☐ Permittee/Owner ☐
Install and maintain erosion control practices and address Corrective Actions	Contractor ☐

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number 25070
Issue BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date 02-26-2026

STORMWATER POLLUTION PREVENTION PLAN NOTES

C26

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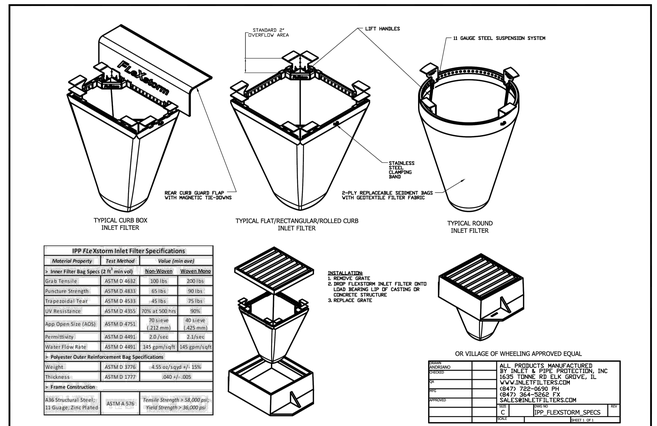
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY
File Location: G:\5900\5987.151 Wheeling PD Aquatic Cntr\5987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pswiatek / PLOT DATE: 2/26/2026 3:50 PM BY: Brian Spencer

IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOT SCALE, SHEET IS ANSI D

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR BLACK AND WHITE PRINTS



IPP FLEXstorm Inlet Filter Specifications

Material Property	Test Method	Value (min ave)	
> Inner Filter Bag Spec (2 ft² min roll)		Non-Woven	Woven Mono
Grab Tensile	ASTM D 4632	100 lbs	200 lbs
Puncture Strength	ASTM D 4833	65 lbs	90 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 Hrs	90%
Appl Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0 /sec	2.5/sec
Water Flow Rate	ASTM D 4491	145 gpm/sq ft	145 gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.50 oz/sqyd +/- 15%	
Thickness	ASTM D 1777	.040 +/-.005	
> Frame Construction			
AISI Structural Steel, 13 Gauge, Zinc Plated	ASTM A 536	Tensile Strength = 58,000 psi; Yield Strength = 36,000 psi	

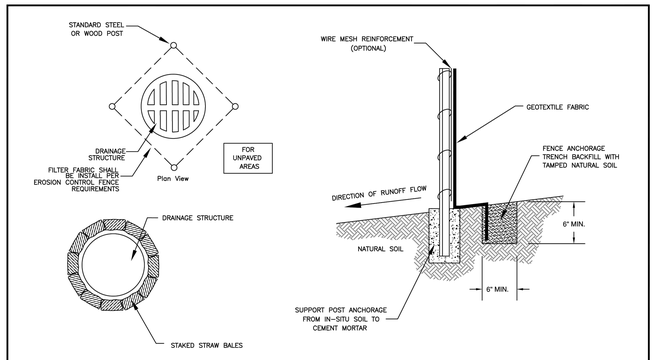
INSTALLATION
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

OR VILLAGE OF WHEELING APPROVED EQUAL

NONE		ALL PRODUCTS MANUFACTURED BY: INLET & PIPE PROTECTION, INC
ZONING		6635 TINNIE RD ELK GROVE, IL
PC		WWW.INLETPROTECTION.COM
SEC.		(847) 722-0090 PH
ENGRG		(847) 364-5262 FX
		SALES@INLETFILTERS.COM
	CK	DWG. NO. IPP_FLEXSTORM_SPECS
	DATE	SHEET 1 OF 1

INLET AND FILTER PROTECTION STANDARD

VILLAGE OF WHEELING	REVISIONS		DETAIL NO.
SPECIFICATIONS AND DETAILS	S.W.	01-30-03 AUTOCAD FILE	ERO-1
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS			



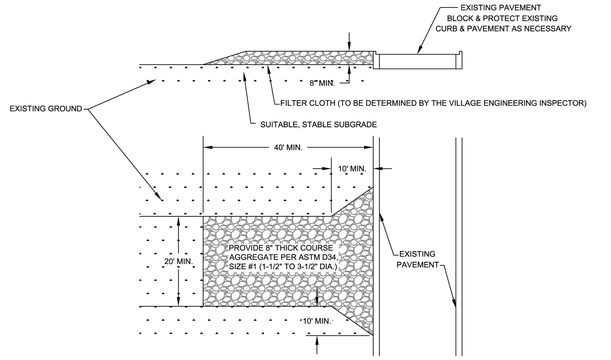
STRAW BALE INSTALLATION FOR EROSION CONTROL AROUND A DRAINAGE STRUCTURE

Inlet Protection Details

NOTE: DEPENDING UPON CONFIGURATION, ATTACH FABRIC TO WIRE MESH W/HOG RINGS, STEEL POSTS W/TIE WIRES, WOOD POSTS W/NAILS.

SILT FENCE INSTALLATION STANDARD

VILLAGE OF WHEELING	REVISIONS		DETAIL NO.
SPECIFICATIONS AND DETAILS	S.W.	09-07-00 AUTOCAD FILE	ERO-2
FILE LOCATION	S.W.	11-07-01 PER COMMENTS	
T:\ENGINEERING\STANDARDS	C.J.C.	01-29-08 AUTOCAD FILE	
	K.A.G.	12-20-18 INLET PROTECTION	

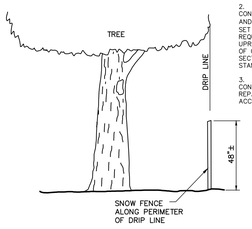


TEMPORARY CONSTRUCTION ENTRANCE STANDARD

VILLAGE OF WHEELING	REVISIONS		DETAIL NO.
SPECIFICATIONS AND DETAILS	P.F.	06-16-99	ERO-4
FILE LOCATION	C.J.C.	10-01-08 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS			

NOTES:

1. EXISTING TREES TO BE PROTECTED SHALL HAVE SNOW FENCE INSTALLED AT THE DRIP LINE OF THE TREE TO PREVENT THE STOCKPILING OF EXCAVATED OR CONSTRUCTION MATERIALS UNDER THE TREE, AND PROHIBIT VEHICULAR TRAFFIC OR EXCESSIVE FOOT TRAFFIC WITHIN THE DRIP LINE.
2. SNOW FENCE SHALL BE WEBBED HDPE CONSTRUCTION FENCING, COLORED ORANGE AND SUPPORTED WITH STEEL "TEE" POSTS SET AT MAX. 15' INTERVALS, OR AS REQUIRED TO MAINTAIN THE FENCE IN AN UPRIGHT POSITION THROUGHOUT THE TERM OF CONSTRUCTION, IN CONFORMANCE WITH SECTION 201.05a OF THE HIGHWAY STANDARDS.
3. TREES THAT MAY BE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE VILLAGE.



ELEVATION

03.15.2016

TREE PROTECTION FENCING DETAIL

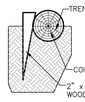
NOTES:

1. DO NOT SCALE DRAWING.
2. REFER TO MANUFACTURER'S PRODUCT SPECIFICATIONS TO ENSURE QUALITY OF THE PRODUCTS

PLAN VIEW



SECTION VIEW



DROP INLET OR MANHOLE
INLET PROTECTION FOR DROP INLETS OR MANHOLES

* USE 9LB DENSITY 12" DIAMETER, 20' LONG COIR LOG POLYNET FOR STANDARD CIRCULAR DRAINAGE STRUCTURES. PLACE THE COIR LOG AROUND THE STRUCTURE AND JOIN THE ENDS TOGETHER WITH COIR TWINE. USE 2"x2"x24" WOODEN STAKES SPACED 3' APART TO HOLD DOWN LOG POLYNET.

MAINTENANCE
1. CLEAN OUT SEDIMENT BEHIND LOG WHEN ½ FULL
2. RESECURE LOOSE LOGS
3. REPLACE LOGS AS NEEDED
4. REMOVE WHEN NOT NEEDED

03.15.2016

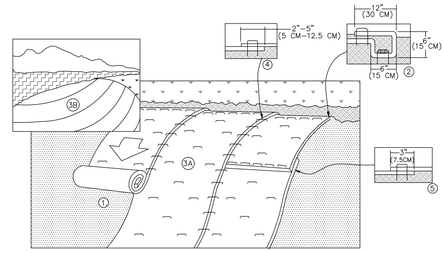
COIR ROLL DETAIL INLET PROTECTION

NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"–5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE:

*IN LOOSE SOIL, CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED PLACEMENTS.

03.15.2016

EROSION CONTROL BLANKET SLOPE INSTALLATION

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
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625 Forest Edge Drive
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AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

SOIL EROSION AND SEDIMENT CONTROL DETAILS

C27

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File Location: G:\95005987.151 Wheeling RD Aquatic Cnt\9987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pswalek / PLOT DATE: 2/26/2026 3:50 PM BY: Brian Spencer

IF THE SQUARES ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOT SCALE, THIS IS A 1" SCALE DRAWING

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR CONTRAST

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
2. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
5. ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
8. IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
9. THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
10. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

UTILITY NOTES

1. UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
2. MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
3. SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.
4. ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
5. ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
6. STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.
7. ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.
8. THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER IN THE FIELD.
9. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT.

PROJECT SPECIFIC NOTES

1. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES, RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.
2. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
3. ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
4. ALL PUBLIC WATER MAINS AND SANITARY SEWER MAINS MUST BE ACCEPTED BY THE VILLAGE OF WHEELING PUBLIC WORKS DEPT.
5. THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE VILLAGE OF WHEELING BEFORE WORK IS STARTED.
6. CONTRACTOR SHALL NOTIFY THE VILLAGE OF WHEELING (847) 459-2620 AND THE PROJECT ENGINEER (630-701-4242) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
7. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
8. THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
9. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
11. STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
12. PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
13. CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
14. ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
15. ALL CONNECTIONS TO EXISTING STORM MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
16. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
17. ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE MEETING REQUIREMENTS OF SECTION 1020. ALL SIDEWALKS, CURBS AND POST FOUNDATIONS SHALL BE CLASS SI 3,500 PSI @ 14 DAYS. ALL PAVEMENT SHALL BE CLASS PV 3,500 PSI @ 14 DAYS. WHERE NOTED ON THE PLANS HIGH EARLY CONCRETE SHALL BE CLASS PV TYPE III 3,500 PSI CONCRETE @ 3 DAYS. ALL CONCRETE REQUIRING A CURE TIME FASTER THAN 3 DAYS SHALL HAVE A MIX DESIGN SUBMITTED TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED BY THE MUNICIPALITY, FLY ASH SHALL NOT BE USED IN THE MIX DESIGN. SLUMP SHALL BE 2-4" AND AIR CONTENT SHALL BE BETWEEN 5-8% UNLESS MODIFIED BY ARTICLE 1020.04.
18. ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
19. 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
20. UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
21. ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
22. ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)
23. SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
24. ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.
25. ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.
26. ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.

SPECIAL PROVISIONS

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

WORK UNDER THIS ITEM SHALL BE PERFORMED IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) GUIDELINES IN EFFECT AT THE TIME OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL ARRANGEMENTS FOR COORDINATION AND SUBMISSION OF THE NECESSARY DOCUMENTS WITH THEIR CHOSEN CCDD OR OTHER SUITABLE DISPOSAL FACILITY. WRITTEN CONFIRMATION OF PRELIMINARY APPROVAL MUST BE PROVIDED FROM THE DISPOSAL FACILITY AND CONFIRMED BY THE OWNER AS ACCEPTABLE. ALL SURPLUS, CLEAN MATERIAL GENERATED FROM THE CONTRACTOR'S ACTIVITIES MUST BE DISPOSED OF AT AN IEPA PERMITTED CCDD OR OTHERWISE ACCEPTABLE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION TO THE OWNER FOR EACH LOAD HAULED OFF-SITE SHOWING THE QUANTITY OF MATERIAL AND THE LOCATION THE MATERIAL WAS DISPOSED OF. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED COMPLYING WITH THESE REQUIREMENTS INCLUDING BUT NOT LIMITED TO; DELAYS, INCONVENIENCE, OR INTERRUPTIONS IN THE WORK RESULTING FROM COMPLIANCE WITH THESE REQUIREMENTS. ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND DISPOSAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

AS-BUILT DOCUMENTS

THE CONTRACTOR IS REQUIRED TO SUBMIT "AS-BUILT PLANS", i.e. - RECORD DRAWINGS OF ALL PROJECTS THAT INCLUDE THE INSTALLATION OF STORM SEWER, SANITARY SEWER, WATERMAIN AND WATER SERVICES, STORMWATER MANAGEMENT FACILITIES AND SITE GRADING. THE EXISTING ELEVATIONS SHALL BE LINED-THROUGH AND THE AS-CONSTRUCTED GRADES WRITTEN NEXT TO THEM. THE "AS-BUILT PLANS" MUST BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR AND/OR A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO GHA FOR REVIEW. THE AS-BUILT PLANS SHALL FURTHER:

A. SHOW THE RIM AND INVERT ELEVATIONS FOR ALL MANHOLES, CATCH BASINS, INLETS AND FLARED END SECTIONS.
B. WHEN SURFACE DETENTION IS PROVIDED ON A PAVED SURFACE SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME AND HIGH-WATER ELEVATION WAS ACHIEVED.
C. WHEN SURFACE DETENTION IS PROVIDED IN A DETENTION OR RETENTION POND, SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME WAS ACHIEVED. THE AS-CONSTRUCTED GRADES SHALL INCLUDE THE TOP OF THE BERM AND EMERGENCY OVERFLOW.
D. RESTRICTOR STRUCTURES SHALL BE LOCATED AND THE SIZE, TYPE AND ELEVATION OF THE RESTRICTOR SHALL BE PROVIDED ALONG WITH ANY INTERIOR OVERFLOW WEIRS, LOW-FLOW NOTCHES, ETC.

PARTICULAR CARE SHALL BE GIVEN TO INSTALLATION OF ALL IMPROVEMENTS WITHIN THE ADA ROUTES INCLUDING RAMPS, LEVEL LANDINGS, TRANSITION PANELS, CURBS AND TACTILE SURFACES. THE CONTRACTOR SHALL ENSURE THAT ALL CROSS SLOPES AND LANDINGS DO NOT EXCEED 2% EXCEPT IN CHICAGO WHICH CANNOT EXCEED 1.56% RUNNING SLOPES ON ADA ROUTES GREATER THAN 5% REQUIRE HANDRAILS. THE CONTRACTOR SHALL INFORM THE ENGINEER WHEN THE STATED SLOPES ARE EXCEEDED IN THE FIELD

VOLUME CONTROL AS-BUILTS

1. UPON COMPLETION OF THE PROJECT, RECORD DRAWINGS OF ALL PLAN SHEET(S) SHALL BE SUBMITTED TO THE DISTRICT.
2. ALL RECORD DRAWINGS SHALL CONTAIN BENCHMARK INFORMATION AND REFERENCE A VERTICAL DATUM.
3. RECORD DRAWING CALCULATIONS SHALL BE SUBMITTED TO THE DISTRICT FOR THE FOLLOWING:
   A. AS-BUILT VOLUME OF CONSTRUCTED VOLUME CONTROL PRACTICES, DETENTION FACILITIES, AND COMPENSATORY STORAGE; AND
   B. ACREAGE OF CONSTRUCTED NATIVE PLANTING CONSERVATION AREAS, WETLAND MITIGATION AREAS, AND RIPARIAN ENVIRONMENT MITIGATION AREAS.
4. IF THE CONSTRUCTED GRADES, GEOMETRIES, INVERTS, ACREAGE, OR VOLUMES OF CONSTRUCTED STORMWATER FACILITIES, VOLUME CONTROL PRACTICES, DETENTION FACILITIES, COMPENSATORY STORAGE, NATIVE PLANTING CONSERVATION AREAS, WETLAND MITIGATION AREAS, OR RIPARIAN ENVIRONMENT MITIGATION AREAS ARE NOT IN CONFORMANCE WITH THE APPROVED PLANS, THE APPLICANT SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS REQUIRED FOR COMPLIANCE WITH THIS ORDINANCE.
5. RECORD DRAWINGS SHALL BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER OR A PROFESSIONAL LAND SURVEYOR. THE RECORD CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER.

UTILITY TABLE, SPECIFICATIONS, AND TESTING REQUIREMENTS

STORM SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
	PVC SDR 26	PIPE:ASTM D-3034	JOINT:ASTM D-3212
	RCP CL HV	PIPE:ASTM C-76	JOINT:ASTM C-990
	PERFORATIONS	HOLE PATTERN:ASTM D-2729	
FINGERDRAINS	PVC SDR 35	PIPE:ASTM D-3034	SOLVENT WELD JOINT
UNDERDRAINS			
	PVC SDR 35	PIPE:ASTM D-3034	JOINT:ASTM D-3212
WATER MAIN CLASS			
	DIP CL 52	PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4	JOINT:ANSI/AWWA A21.11/C-111
MANHOLES	TYPE A	48" MINIMUM INSIDE DIAMETER	
FRAME & GRATE/LID	PAVED AREAS	OPEN LID:NEENAH R-2015; NF-2015 T17	CLOSED LID:NEENAH R-1713; NF-1015 T45 * All closed lids shall have the words "Village of Wheeling - Storm" casted in it as per standard detail.
	CURB STRUCTURES	OPEN LID:NEENAH R-2015; NF-2015 T17	CLOSED LID:N/A
	GRASS AREAS	OPEN LID:NEENAH R-4340-B UNLESS OTHERWISE NOTED	CLOSED LID:NEENAH R-1713; NF-1015 T45 * All closed lids shall have the words "Village of Wheeling - Storm" casted in it as per standard detail.
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM	
PIPE BEDDING MATERIAL	CA7/CA-11		
TRENCH BACKFILL	CA7/CA-11		
TRENCH BACKFILL UNDERDRAIN	CA7/CA-11	CRUSHED CONCRETE NOT ALLOWED, ALL STONE MUST BE WASHED	
TRENCH BACKFILL FINGERDRAIN	CA7/CA-11	CRUSHED CONCRETE NOT ALLOWED, ALL STONE MUST BE WASHED	

WATER MAIN	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
	DIP CL 52	PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4X	JOINT:ANSI/AWWA A21.11/C-111 COVER: 5.5' MIN, 8-FT MAX
FRAME & GRATE/LID	PAVED AREAS	CLOSED LID:NEENAH R-1713	
	GRASS AREAS	CLOSED LID:NEENAH R-1713	
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM	
VALVE BOXES	5.25" TWO PIECE SCREW	LID EMBOSSED WATER, RUBBER STABILIZER REQUIRED	
WATER VALVES	AWWA C-515	RESILIENT WEDGE GATE VALVE; All valves shall be installed in a minimum, 60 inch diameter precast concrete water-tight vaults *UNLESS OTHERWISE NOTED*	
WATER MAIN FITTINGS	AWWA C-153	ALL FITTINGS MUST BE MANUFACTURED IN THE USA	
PIPE BEDDING MATERIAL	CA-11	*CRUSHED CONCRETE NOT ALLOWED*	
TRENCH BACKFILL	CA-6	*CRUSHED CONCRETE NOT ALLOWED*	
CURB STOP	NO LEAD BRASS	MUELLER B-25154, FORD B22-444	
CURB BOX	1-1/2" Mueller or Ford telescopic B-box	with "WATER" imprinted on the lid of the box and a brass pentagon plug.	
CORPORATION VALVE	NO LEAD BRASS	MUELLER H-15000, FORD F600	
SERVICE SADDLE	DOUBLE STRAP SADDLE	MUELLER SS SERIES SS DBLE STRAP, FORD FS323, ROMAC 306	
FIRE HYDRANT	RED 6' MUELLER A-423 SUPER CENTURION	AWWA C502, 5.25" VALVE OPENINGS, NST, TWO 2.5" PORTS WITH VENTED CAPS AND ONE 4.5" PORT, STAINLESS STEEL HARDWARE, TRAFFIC TYPE, PAINTED RED, 250 PSI OPERATING PRESSURE	
THRUST BLOCKS	PCC	MIN. 12" THICK, REQUIRED ON BENDS 22.5° AND GREATER	
FITTING FASTENER HARDWARE	STAINLESS STEEL	All fastener hard ware (i.e., nuts, bolts and washers) associated with fittings shall be stainless steel. Fittings shall be restrained by thrust resistant wedge, retainer glands, manufactured with torque limiting twist off nuts.	
WATER SERVICE PIPE	TYPE K COPPER	PIPE:ASTM B-88	ALL WATER SERVICES TO BE INSTALLED PER VILLAGE STANDARD

SANITARY SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
	PVC SDR 26	PIPE:ASTM D-3034	JOINT:ASTM D-3212 AND F-477
WATER MAIN CLASS			
	DIP CL 52	PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4	JOINT:ANSI/AWWA A21.11/C-111
FRAME & GRATE/LID	PAVED AREAS	CLOSED LID: NEENAH R-1713; NF-1015 T47	
	GRASS AREAS	CLOSED LID: NEENAH R-1713; NF-1015 T47	
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM	
PIPE BEDDING MATERIAL	CA-11	*CRUSHED CONCRETE NOT ALLOWED*	
TRENCH BACKFILL	CA-6	*CRUSHED CONCRETE NOT ALLOWED*	
MANHOLES	TYPE A	48" MINIMUM INSIDE DIAMETER	
MANHOLE CHIMNEY SEAL	CRETEX	ASTM: C-923	
MANHOLE CONNECTIONS		ASTM: C-923	

TESTING REQUIREMENTS	
WATER MAIN	ALL WATER MAIN SHALL HAVE A PRESSURE AND LEAKAGE TEST PERFORMED IN ACCORDANCE WITH SECTION 41-2.14 OF STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS All water mains shall be pressure tested per requirements of the Village of Wheeling. Leakage test method shall be used to pressure test the watermain. The pressure shall be 150 psi and 200 psi held for 2 hours for domestic water and fire suppression line, respectively. All water mains shall be chlorinated per the following requirements. Initial chlorine concentration shall be 50 mg/l during disinfection and shall be maintained at a minimum of 25 mg/l free chlorine. The chlorinated water shall be retained in the main for a period of at least 24 hours. At the end of the 24 hour period, the treated water shall contain no less than 10 mg/l free chlorine throughout the main. Fire sprinkler and water lines must be pressure tested and chlorinated from the point of connection at the existing watermain to the valve inside the building. Contact Village of Wheeling Public Works Utility Division at (847) 279-6900, at least 48 hours prior to tap
SANITARY SEWER	ALL SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. ALL RIGID SANITARY SEWER PIPE SHALL BE TESTED BY EITHER METHOD A, B OR C AS OUTLINED IN SECTION 31-1.12. ALL FLEXIBLE SANITARY SEWER PIPE SHALL BE TESTED BY METHOD D AND EITHER METHOD A, B OR C. ALL SANITARY SEWER MUST BE TESTED BY METHOD E. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A COPY OF THE VIDEO ON A DIGITAL VIDEO DISC. THE VIDEO MUST BE IN COLOR AND PROCEED NO FASTER THAN 1 FOOT PER SECOND. All sanitary sewers shall be televised, air tested mandrel tested and manholes vacuum tested as required by the Village of Wheeling and the Metropolitan Water Reclamation District of Greater Chicago.
SEWER WATER MAIN CROSSINGS	ALL SEWERS THAT CROSS OR RUN PARRALEL TO WATER MAINS SUBJECT TO IEPA REQUIREMENTS FOR WATER MAIN QUALITY PIPE MUST BE PRESSURE TESTED ACCORDING TO 41-2.14 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS
SANITARY MANHOLES	ALL SANITARY MANHOLES SHALL BE TESTED BY EITHER ASTM C-969 OR ASTM C-1244

NON-WOVEN	STYLE DESCRIPTION	STANDARDS/REQUIREMENTS
LIGHT DUTY	UNDERDRAIN FABRIC	3.5 oz
		MINIMUM GRAD TENSILE ASTM D4632 = 90 LBS
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 40 LBS
		MINIMUM FLOW RATE ASTM D4491 = 150 GAL/MIN/SQFT
MEDIUM DUTY	UNDERDRAIN FABRIC	6 oz
		MINIMUM GRAD TENSILE ASTM D4632 = 160 LBS
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 60 LBS
		MINIMUM FLOW RATE ASTM D4491 = 110 GAL/MIN/SQFT
HEAVY DUTY	SUBGRADE/SUBBASE SEPARATION	10 oz
		MINIMUM GRAD TENSILE ASTM D4632 = 250 LBS
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 100 LBS
		MINIMUM FLOW RATE ASTM D4491 = 75 GAL/MIN/SQFT

Village of Wheeling - General Notes

1) It shall be the responsibility of the developer (owner) and the contractor to abide by, adhere to and perform all work in accordance with the requirements, specifications, standards, practices, policies and codes of the Village of Wheeling which includes but is not limited to labor, materials, procedures and safety.
2) Underground construction shall comply with the applicable ordinances and requirements of the Village of Wheeling and the Illinois Department of Transportation "Specifications for Road and Bridge Construction", latest edition, and the Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition. All construction shall conform to the Illinois Recommended Standards for Sewerage Works, latest edition, published by the Illinois Environmental Protection Agency (I.E.P.A.) except for conflicts with the Metropolitan Water Reclamation District of Greater Chicago (M.W.R.D.G.C.) Sewer Permit and Manual of Procedures Ordinances. In case of a conflict the most restrictive standards and requirements shall govern.
3) All paving and excavation work shall comply with the applicable ordinances of the Village of Wheeling and the Illinois Department of Transportation "Specifications for Road and Bridge Construction" latest edition. In case of a conflict, the most restrictive standards and requirements shall govern.
4) The contractor shall field check and verify all existing utility locations, dimensions and elevations in the field prior to the commencement of construction of the improvements or proposed work. All existing utility locations on the plans have been shown based on best available information. Notify the engineer immediately if discrepancies are found.
5) Any changes, revisions or substitutions to the plans, specifications, materials, requirements or work shall be submitted to the Village Engineer, in writing, with written approval by the Village Engineer received prior to beginning said work. All materials and construction whether implicitly or explicitly stated or covered within the requirements, codes or specifications, shall be approved by the Village Engineer, prior to commencing the installation and construction.
6) The contractor must contact J.U.L.I.E. at 1-800-892-0123 at least 48 hours prior to starting work. All other agencies shall also be notified as required.
7) The contractor shall notify the Village of Wheeling Engineering Division at (847) 459-2620 and the Metropolitan Water Reclamation District of Greater Chicago (708) 588-4055 two (2) business days prior to the start of construction.
8) It shall be the responsibility of the contractor to call the Village at 847-459-2620 at least 48 hours in advance and set up the necessary and proper inspection(s) for all work to be performed.
9) One set of stamped approved plans shall be on site at all times during construction of the project.
10) It is the responsibility of the contractor to maintain and keep at the job site, an up to date set of "Record Drawings" showing all changes from the original plans. The contractor shall deliver the "Record Drawings" to the engineer at the conclusion of the project, prior to any final inspections. The engineer will transfer the information to the original plans by incorporating the Village of Wheeling As-Built requirement list and furnish the Village one (1) sets of complete "Record Drawings," and, if required, one (1) set of electronic version of the Record Drawings and Site Information at the completion of the project.

T:\Engineering\General Not

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A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * VILLAGE OF WHEELING MUNICIPAL CODE;
   * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
2. THE VILLAGE OF WHEELING ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ~~CONVERSION FACTOR IS ________ FT.~~
2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC. FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    a.) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    b.) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    c.) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   a.) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   b.) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

10/13/2022

STD. DWG. NO.18

PAGE NO. 19

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CAMOSY CONSTRUCTION
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Zion, IL 60099
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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

MWRD GENERAL NOTES

C29

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File Location: G:\5900\5987.151 Wheeling PD Aquatic Cntr\5987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pswiatek / PLOT DATE: 2/26/2026 3:50 PM BY: Brian Spencer

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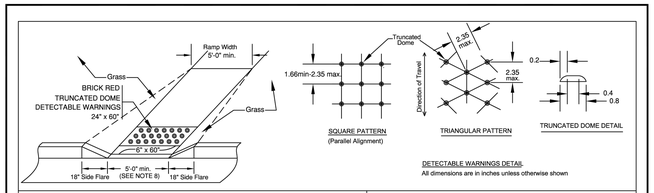
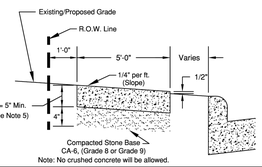


SIDEWALK RAMP



PUBLIC SIDEWALK

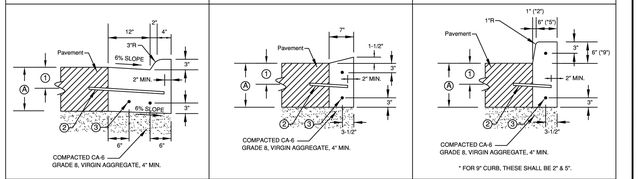
NOTE:
1. TO BE FORMED WITH 2" x 6" BOARDS OR BY 5" WIDE STEEL FORMS.
2. TOOLED JOINTS SHALL BE 1/2" AT 5' CENTERS.
3. EXPANSION JOINTS SHALL BE 3/4" THICK X 5" WIDE BITUMINOUS IMPREGNATED FIBERBOARD AT 50' CENTERS, AT DRIVEWAYS AND OTHER CONCRETE JOINTS.
4. PROVIDE BROOM FINISH EXCEPT AT TRUNCATED DOME.
5. D = 6" AT RESIDENTIAL DRIVEWAY
   D = 8" AT COMMERCIAL/INDUSTRIAL DRIVEWAYS
6. SIDEWALK RAMPS AT DRIVEWAYS SHALL BE BUILT PER THE VILLAGE STANDARD.
7. THE CONCRETE SHALL BE A 6 BAG MIX AND SHALL NOT CONTAIN CHLORIDE OR FLY ASH. THE COMPRESSIVE STRENGTH SHALL MEET OR EXCEED I.D.O.T.'S REQUIREMENTS FOR "SI" CONCRETE (MINIMUM 3500 PSI @ 14 DAYS)
8. PROVIDE DEPRESSED CURBS AT ALL WALKS, 5' MINIMUM WIDTH ON DEPRESSION.
9. ALL SIDEWALKS, CURB/GUTTER AND PAVEMENT TO BE SAW-CUT AS REQUIRED.
10. MAXIMUM SLOPE OF RAMP NOT TO EXCEED 8%.
11. DRIVEWAY APRON REMOVAL & REPLACEMENT SHALL INCLUDE THE INSTALLATION OF A TRUNCATED DOME HANDICAPPED SIDEWALK RAMP ON BOTH SIDES OF THE APRON UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER.
12. TRUNCATED DOME CONSTRUCTION FOR DETECTABLE WARNINGS SHALL BE ARMOR-TILE TACTILE SYSTEMS FEDERAL #22144 OR TUFTILE DETECTABLE WARNING TILES, BRICK RED AND SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE I.D.O.T. STANDARDS. NO SURFACE MOUNT PANELS ALLOWED.

PUBLIC SIDEWALK

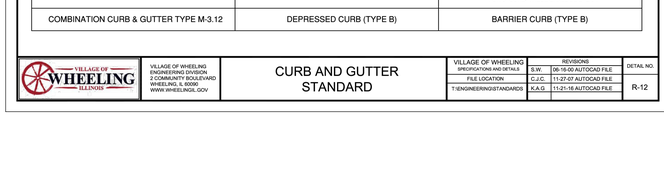
VILLAGE OF WHEELING ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
WWW.WHEELINGIL.GOV

PUBLIC SIDEWALK STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	K.R.G.	9-11-06 AS PER T.W.M.	
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	C.J.C.	08-08-08 AS PER K.R.G.	R-3
	L.S.	06-04-14 AS PER IDOT	
	K.A.G.	12-21-16 AUTOCAD FILE	



COMBINATION CURB & GUTTER TYPE B-6.12 | COMBINATION DEPRESSED CURB & GUTTER



COMBINATION CURB & GUTTER TYPE M-3.12 | DEPRESSED CURB (TYPE B) | BARRIER CURB (TYPE B)

Ⓐ PAVEMENT DEPTH OR 9" MIN.

① TO BE CENTERED OR SET AS REQUIRED IN FIELD.

② 1/2" DIA. STEEL TIE BAR AT 2'-6" CENTERED WHEN PAVEMENT IS CONCRETE. OMIT WHEN ADJACENT PAVEMENT IS FLEXIBLE.

③ 5/8" DIA. STEEL REBAR CONTINUOUS (TYPICAL).

NOTES:

PROVIDE DEPRESSED CURBS AT DRIVEWAYS, CROSSWALKS, AND SIDEWALKS, ETC.

ALL CONCRETE SHALL HAVE 4,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 606 UNLESS OTHERWISE NOTED HEREIN.

CURB AND GUTTER STANDARD

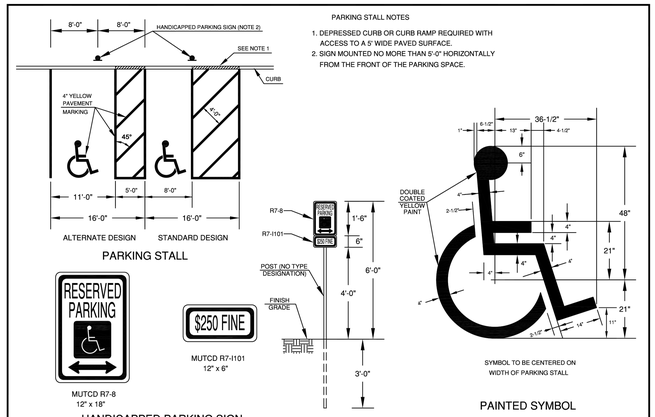
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	06-16-00 AUTOCAD FILE	
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.A.G.	11-21-16 AUTOCAD FILE	R-12



NOTES:
1. NO HANDICAPPED PARKING ALLOWED 30° AND PARALLEL.
2. HANDICAPPED DIMENSIONS SEE HANDICAPPED PARKING STANDARD.

PARKING STALL STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	06-01-00 AUTOCAD FILE	
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.A.G.	01-12-16 AUTOCAD FILE	R-7



HANDICAPPED PARKING STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	3-10-00 AUTOCAD FILE	
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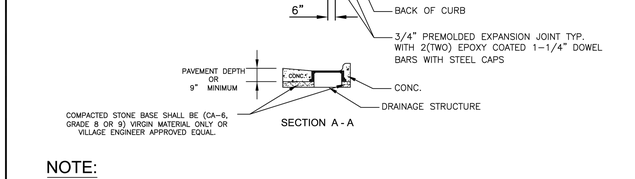
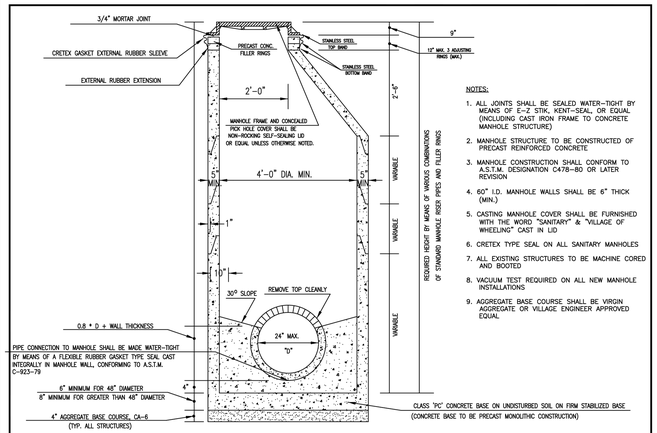


NOTE:

CONCRETE REPLACEMENT WILL BE MONOLITHIC POUR WITH EXPANSON MATERIAL AT CONSTRUCTION JOINT.

MODIFIED CURB DRAINAGE STRUCTURE PRIVATE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	K.R.G.	02-19-09 AGG. BASE	
FILE LOCATION	M.T.P.	09-29-09 AGG. BASE	
T:\ENGINEERING\STANDARDS			R-16



NOTES:
1. ALL JOINTS SHALL BE SEALED WATER-TIGHT BY MEANS OF E-Z STIK, KENT-SEAL, OR EQUAL (INCLUDING CAST IRON FRAME TO CONCRETE MANHOLE STRUCTURE)
2. MANHOLE STRUCTURE TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE
3. MANHOLE CONSTRUCTION SHALL CONFORM TO A.S.T.M. DESIGNATION C478-80 OR LATER REVISION
4. 60" I.D. MANHOLE WALLS SHALL BE 6" THICK (MIN.)
5. CASTING MANHOLE COVER SHALL BE FURNISHED WITH THE WORD "SANITARY" & "VILLAGE OF WHEELING" CAST IN LID
6. CRETEX TYPE SEAL ON ALL SANITARY MANHOLES
7. ALL EXISTING STRUCTURES TO BE MACHINE CORED AND BOOTED
8. VACUUM TEST REQUIRED ON ALL NEW MANHOLE INSTALLATIONS
9. AGGREGATE BASE COURSE SHALL BE VIRGIN AGGREGATE OR VILLAGE ENGINEER APPROVED EQUAL

SANITARY MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	02-27-03 PER COMMENTS	
FILE LOCATION	P.F.	06-16-06 PER COMMENTS	
T:\ENGINEERING\STANDARDS	C.J.C.	11-27-07 AUTOCAD FILE	SAN-1
	K.A.G.	1-04-18 STEPS REMOVED	

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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

C30

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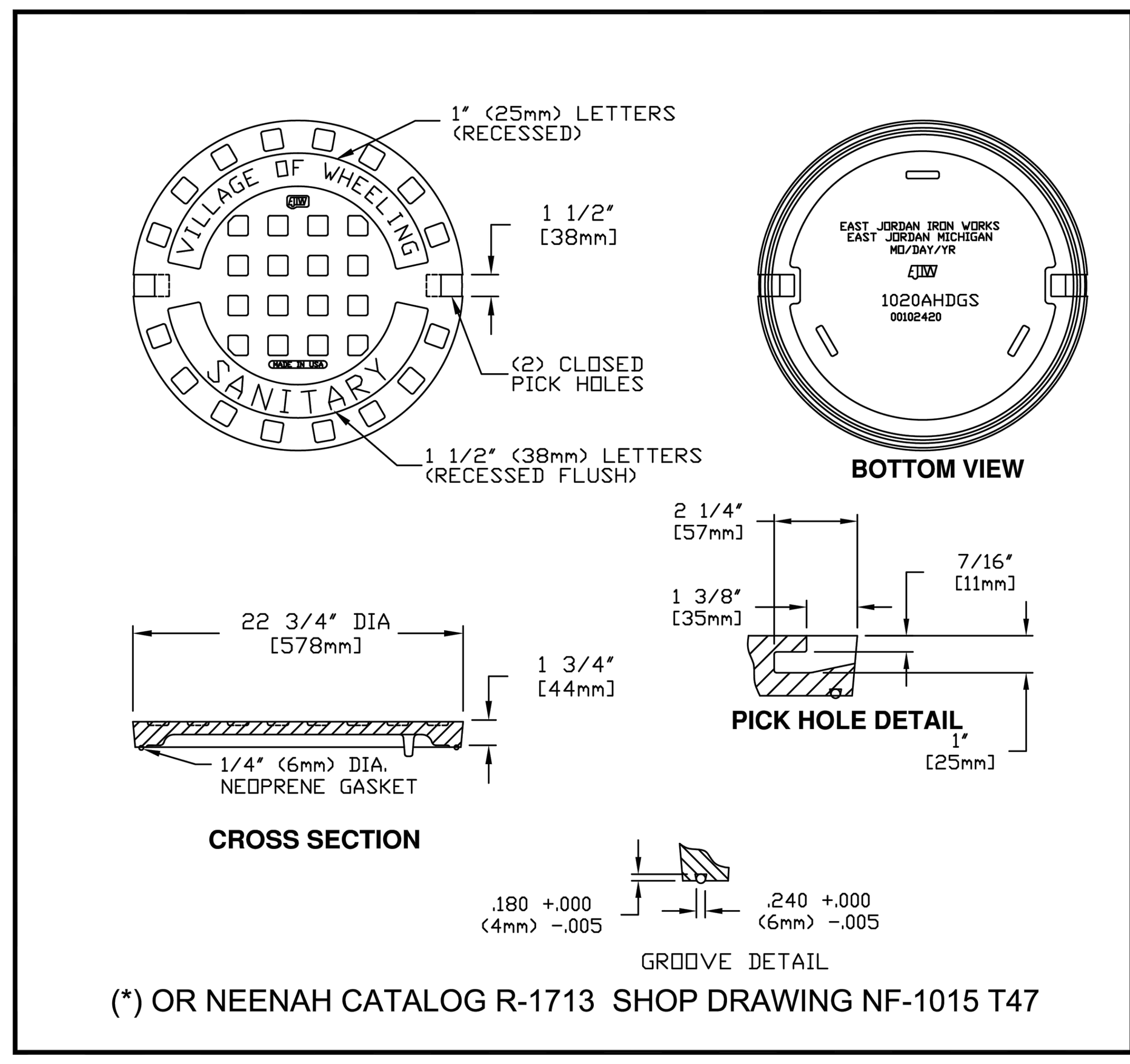
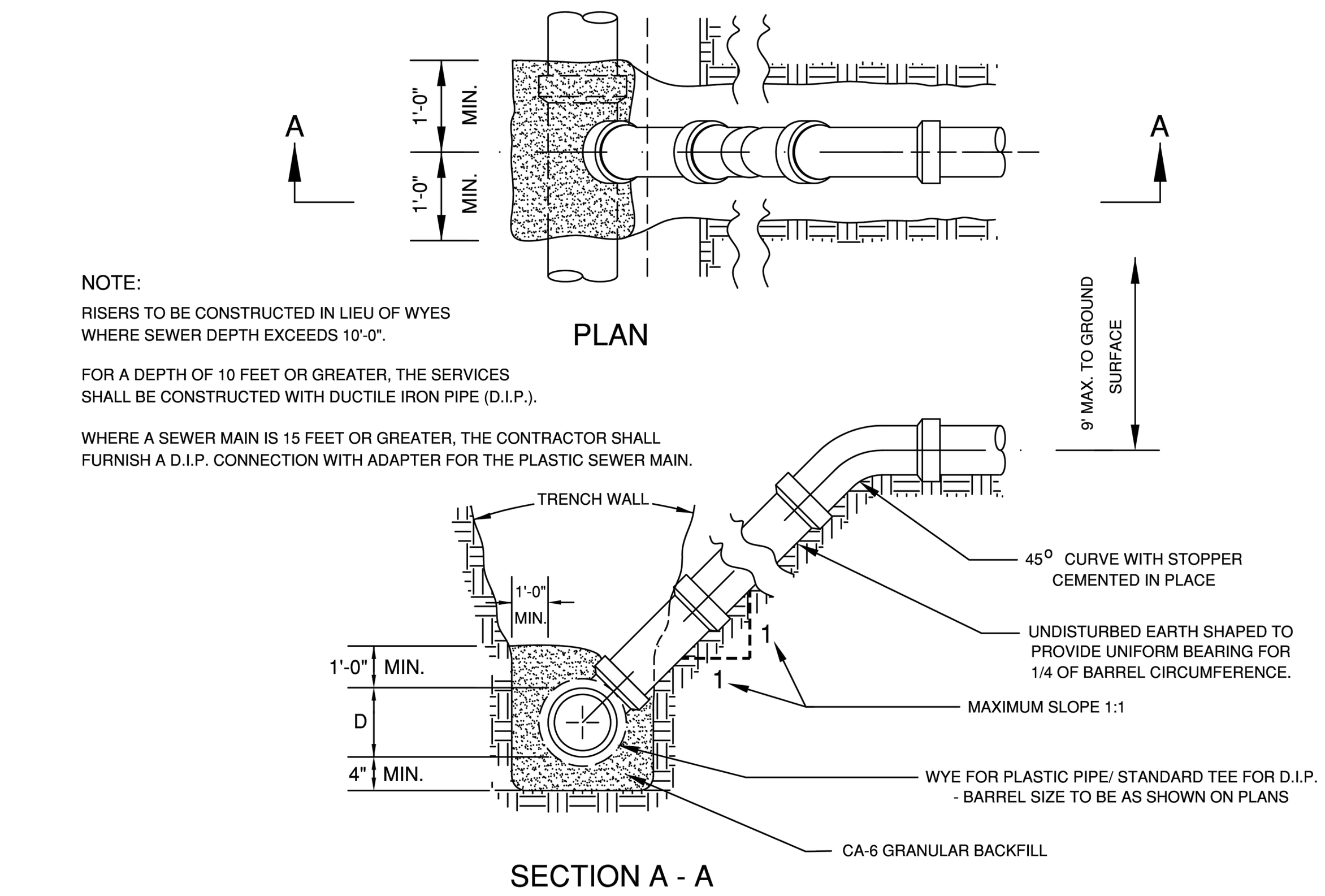


(*) OR NEENAH CATALOG R-1713 SHOP DRAWING NF-1015 T47

(*) EAST JORDAN IRON WORKS, INC. P.O. BOX 439 EAST JORDAN, MI. 49727 1-800-874-4100 FAX 231-536-4458	
DRAWN SMH	DATE 11/11/02
APPROVED	DATE
SPECIAL LETTERED COVER	
(*) PRODUCT NO. 00102420	
CATALOG NO. (*) 1020AGS	
REF. PRODUCT DRAWING 00102108	
EST. WT. COVER WT: 115 LBS. (52 kg)	
OPEN AREA N/A	
MAT'L SPEC. COVER - GRAY IRON ASTM A48 CL 35	
LOAD RATING HEAVY DUTY	

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND CLOSED LID SANITARY STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-24-00 AUTOCAD FILE; S.W. 11-12-02 NPDES PHASE II; S.W. 02-07-03 ADDING NEENAH; C.J.C. 11-27-07 AUTOCAD FILE	DETAIL NO. SAN 3

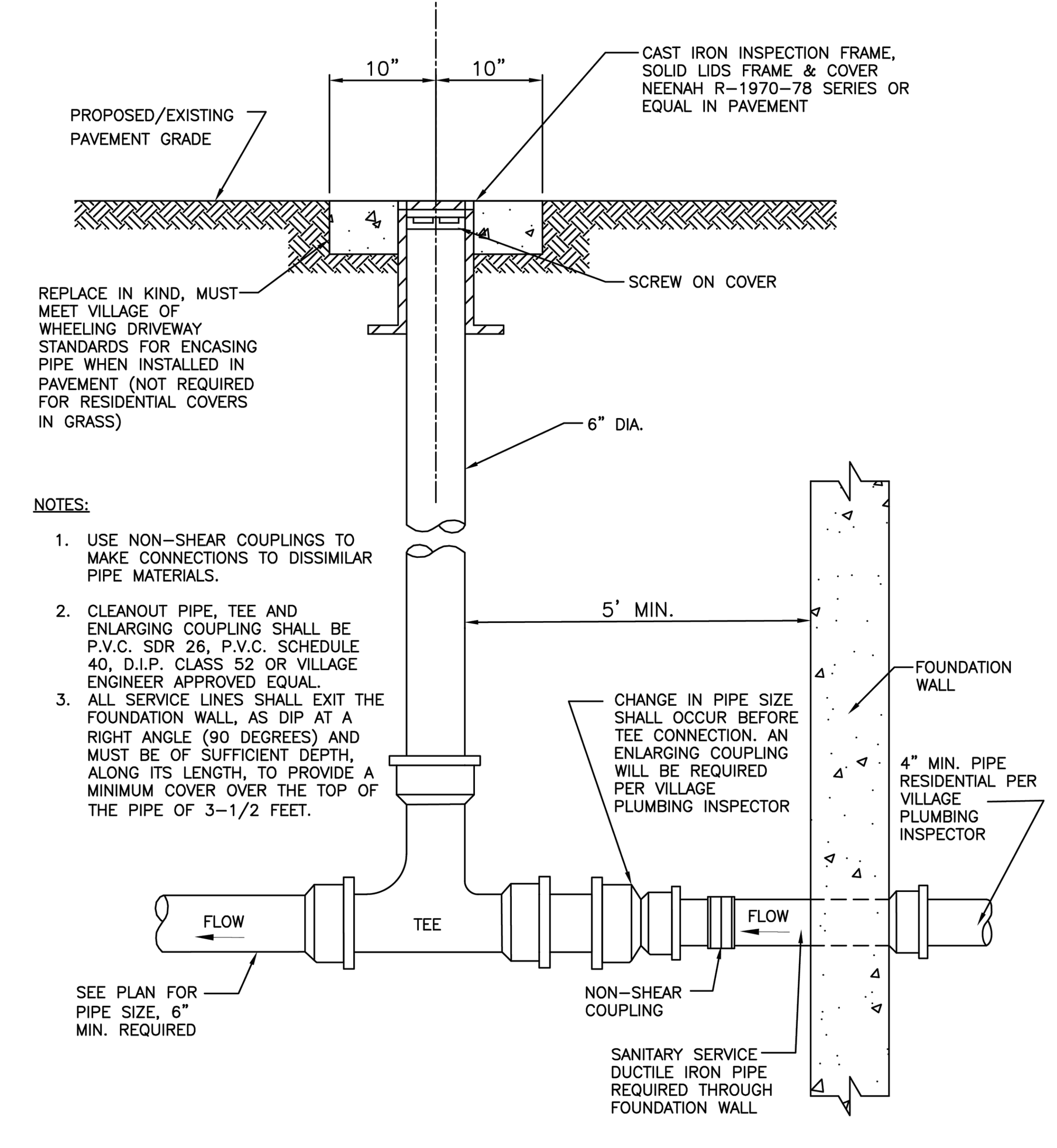


NOTE:
RISERS TO BE CONSTRUCTED IN LIEU OF WYES WHERE SEWER DEPTH EXCEEDS 10'-0".

FOR A DEPTH OF 10 FEET OR GREATER, THE SERVICES SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE (D.I.P.).

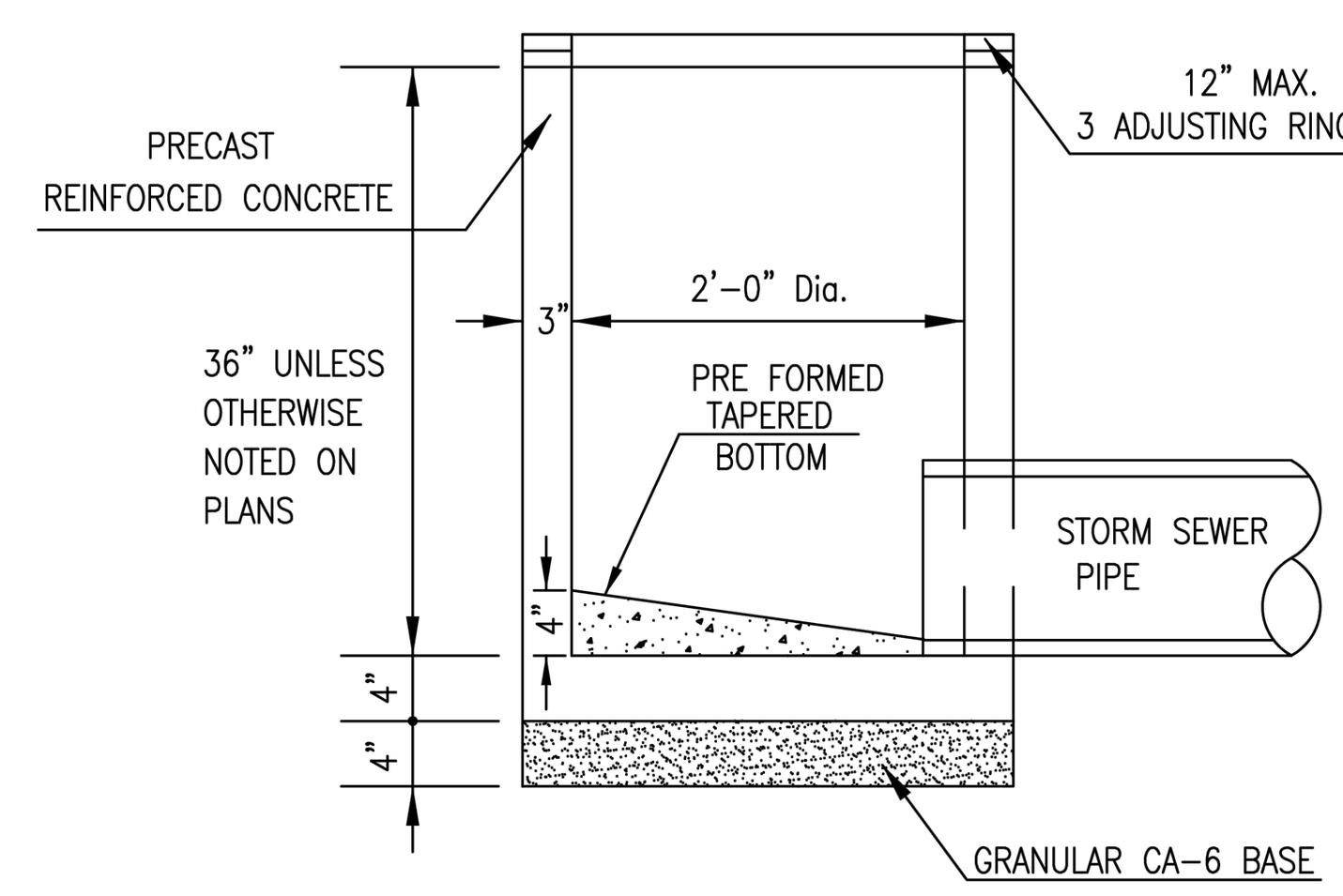
WHERE A SEWER MAIN IS 15 FEET OR GREATER, THE CONTRACTOR SHALL FURNISH A D.I.P. CONNECTION WITH ADAPTER FOR THE PLASTIC SEWER MAIN.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	SANITARY SERVICE RISER STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 9-8-00 AUTOCAD FILE; C.J.C. 11-27-07 AUTOCAD FILE	DETAIL NO. SAN-5



NOTES:
1. USE NON-SHEAR COUPLINGS TO MAKE CONNECTIONS TO DISSIMILAR PIPE MATERIALS.
2. CLEANOUT PIPE, TEE AND ENLARGING COUPLING SHALL BE P.V.C. SDR 26, P.V.C. SCHEDULE 40, D.I.P. CLASS 52 OR VILLAGE ENGINEER APPROVED EQUAL.
3. ALL SERVICE LINES SHALL EXIT THE FOUNDATION WALL, AS DIP AT A RIGHT ANGLE (90 DEGREES) AND MUST BE OF SUFFICIENT DEPTH, ALONG ITS LENGTH, TO PROVIDE A MINIMUM COVER OVER THE TOP OF THE PIPE OF 3-1/2 FEET.

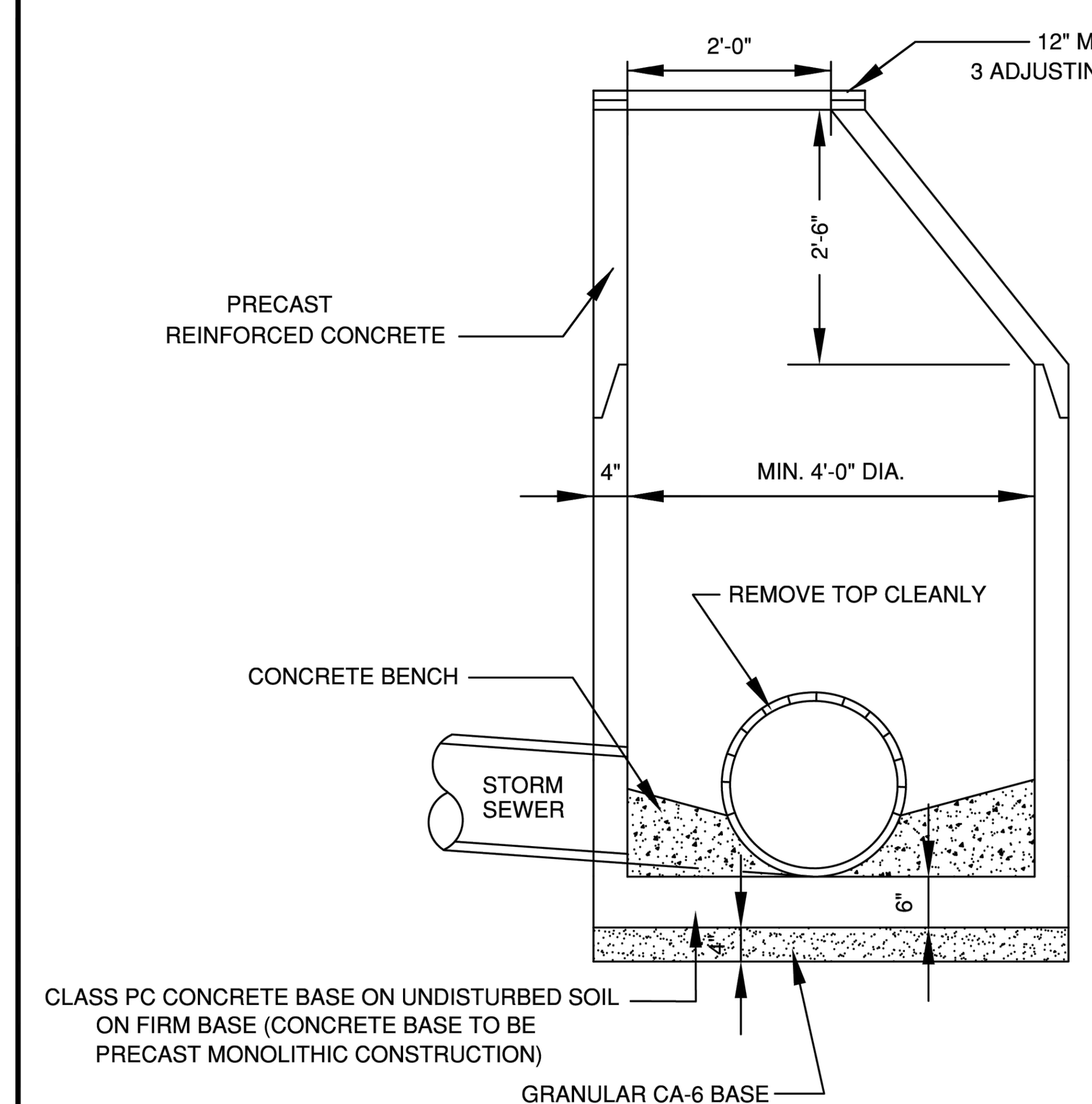
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	SANITARY SEWER CLEANOUT STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: C.J.C. 11-27-07 AUTOCAD FILE; C.J.C. 08-08-08 VILLAGE REVISIONS; K.R.G. 08-31-11 TEE REVISIONS	DETAIL NO. SAN-6



INLET (TYPE A)

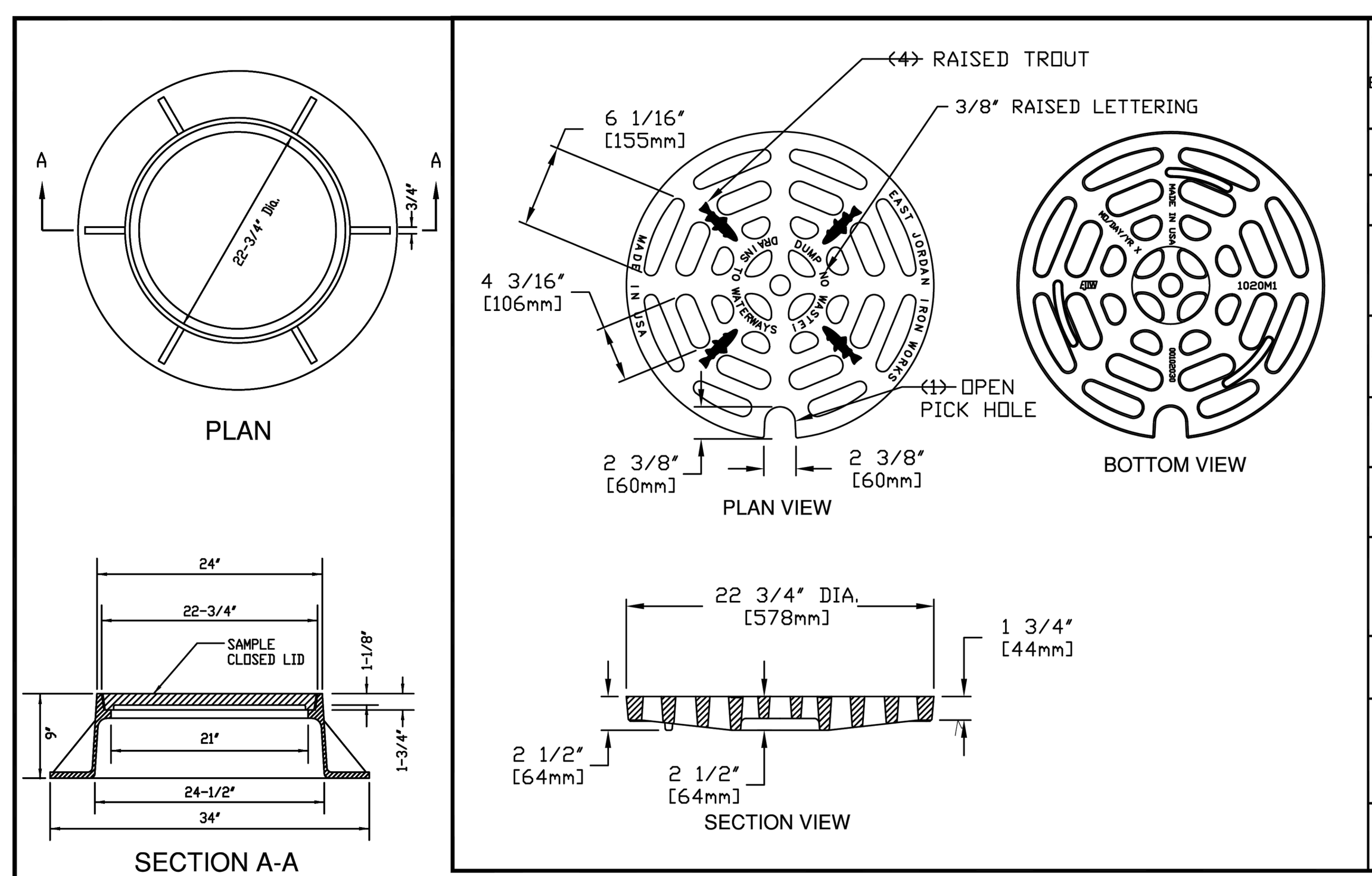
NOTE:
1. STORM SEWER PIPES IN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE AS PER SECTION 550 OF THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
2. STORM SEWER ON PRIVATE PROPERTY MAY BE PVC-SDR26, DUCTILE IRON, OR RCCP.
3. ALL OTHER PIPE MATERIAL MUST BE APPROVED BY THE VILLAGE ENGINEER.
4. JOINTS FOR RCCP SHALL BE PREFORMED, FLEXIBLE, O-RING GASKET TYPE OR TYLOX SUPER SEAL GASKET (ASTM C-361).
5. INLET SHALL BE CONNECTED TO A STORM SEWER AFTER FLOWING THROUGH A CATCH BASIN AND SHALL NOT DISCHARGE DIRECTLY TO THE STORM SEWER.
6. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	INLET STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 5-17-00 AUTOCAD FILE; S.W. 9-21-01 PER COMMENTS; C.J.C. 01-29-08 AUTOCAD FILE; K.A.G. 01-04-18 ADDED NOTES	DETAIL NO. ST-1



NOTE:
1. STORM SEWER PIPES IN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE AS PER SECTION 550 OF THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
2. STORM SEWER ON PRIVATE PROPERTY MAY BE PVC-SDR26, DUCTILE IRON, OR RCCP.
3. ALL OTHER PIPE MATERIAL MUST BE APPROVED BY THE VILLAGE ENGINEER.
4. JOINTS FOR RCCP SHALL BE PREFORMED, FLEXIBLE, O-RING GASKET TYPE OR TYLOX SUPER SEAL GASKET (ASTM C-361).
5. INLET SHALL BE CONNECTED TO A STORM SEWER AFTER FLOWING THROUGH A CATCH BASIN AND SHALL NOT DISCHARGE DIRECTLY TO THE STORM SEWER.
6. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 9-21-01 PER COMMENTS; S.W. 2-27-03 PER COMMENTS; K.R.G. 9-11-06 AUTOCAD FILE; K.A.G. 1-04-18 NOTES ADDED	DETAIL NO. ST-4

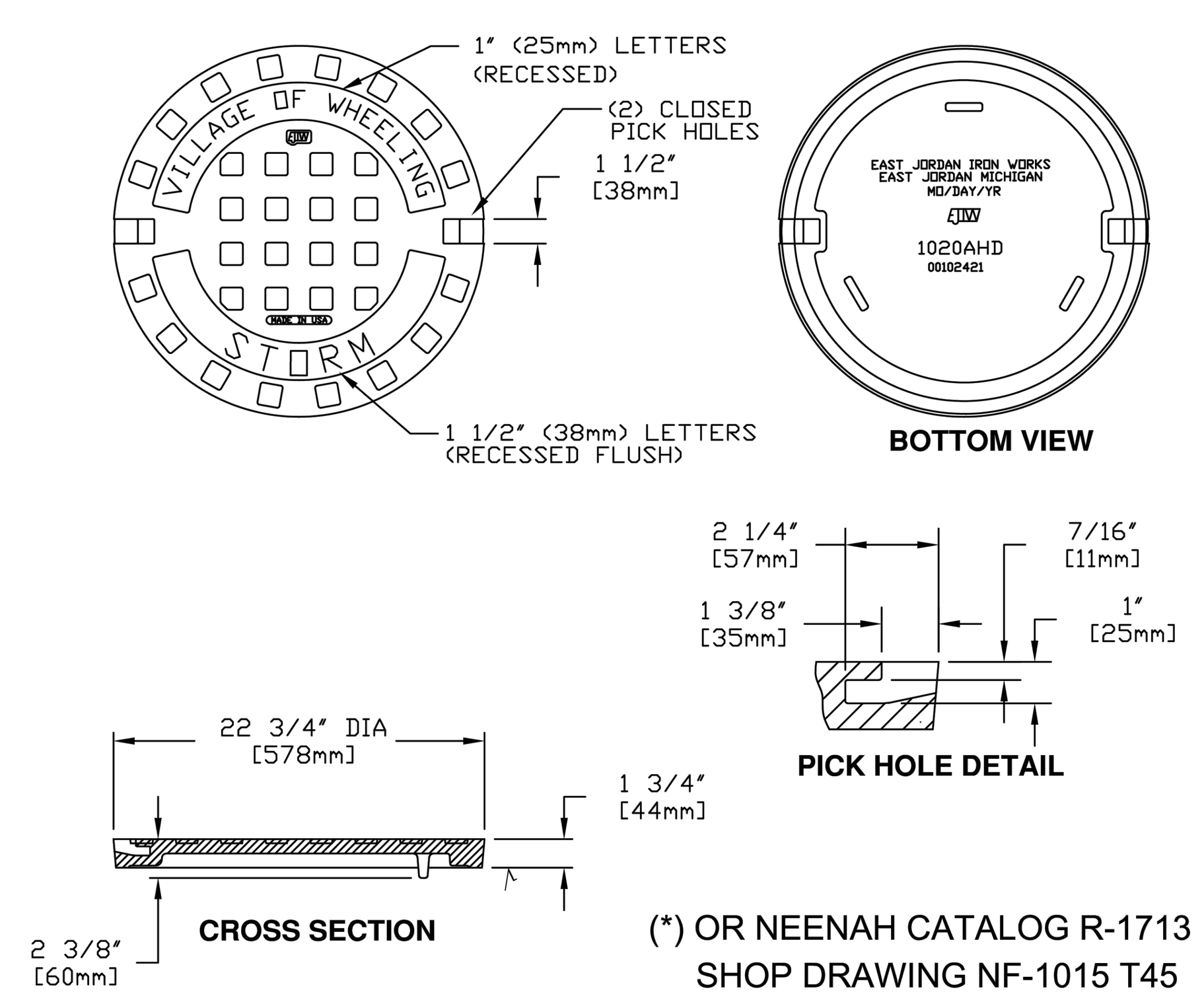


(*) EAST JORDAN IRON WORKS, INC. P.O. BOX 439 EAST JORDAN, MI. 49727 1-800-874-4100 FAX 231-536-4458	
DRAWN TCL	DATE 09/26/02
APPROVED	DATE
CATCH BASIN GRATE	
PRODUCT NO. (*) 00102030 DIPPED	
CATALOG NO. (*) 1020M1	
REF. PRODUCT DRAWING 102031	
EST. WT. GRATE: 124 LBS (56 kg)	
OPEN AREA 120 SQ. INCHES (774 SQ. cm)	
MAT'L SPEC. GRATE - GRAY IRON ASTM A45 CL 35B	
LOAD RATING EXTRA HEAVY DUTY	

FURNISH HEAVY DUTY CASTING AS REQUIRED BY THE VILLAGE ENGINEER

(*) or NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND OPEN LID STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-24-00 AUTOCAD FILE; S.W. 9-19-01 PER COMMENTS; S.W. 11-12-02 NPDES PHASE II; S.W. 02-07-03 ADDING NEENAH; K.R.G. 9-11-06 AUTOCAD FILE	DETAIL NO. ST-6

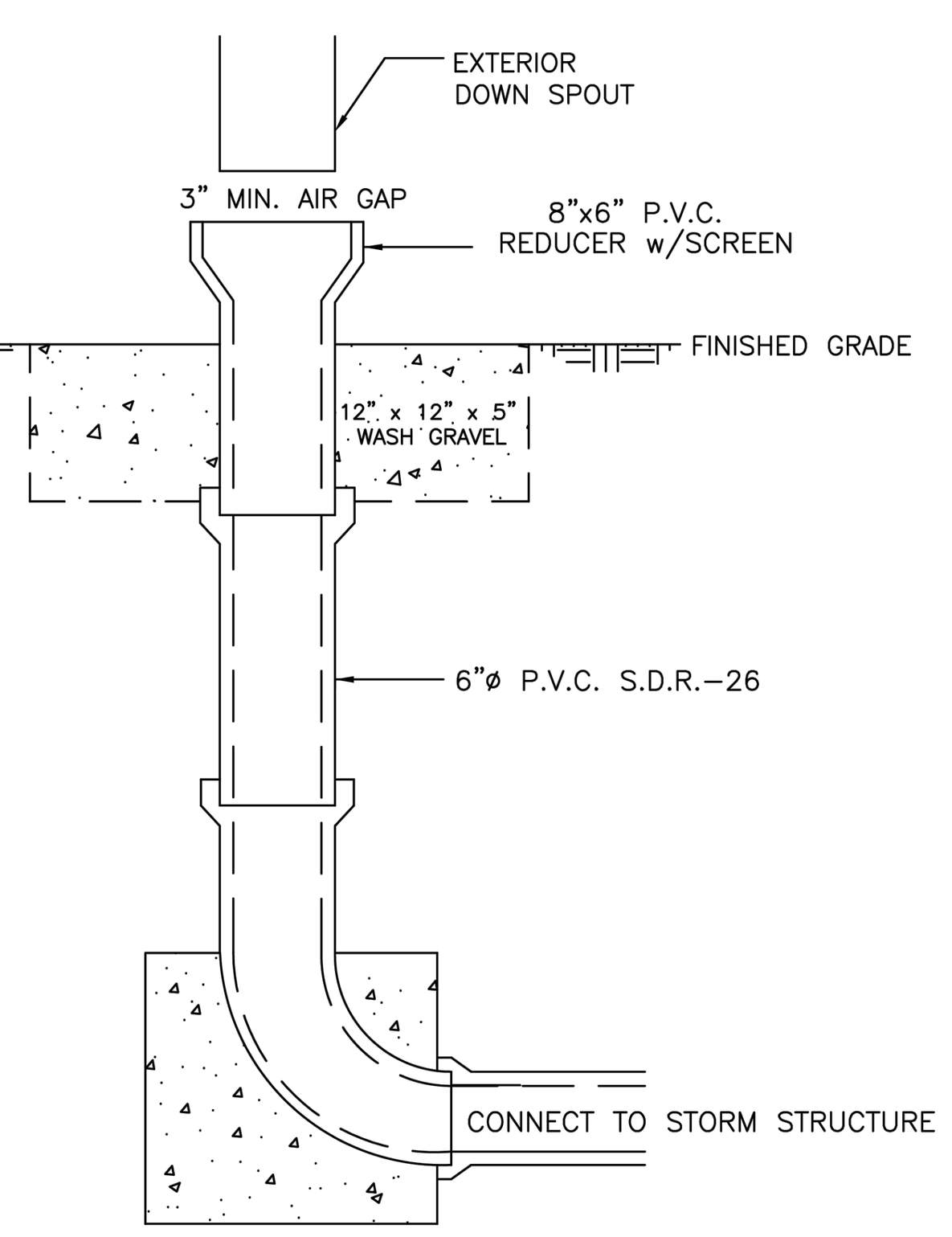


(*) OR NEENAH CATALOG R-1713 SHOP DRAWING NF-1015 T45

√ MACHINED SURFACE

EAST JORDAN IRON WORKS, INC. P.O. BOX 439 EAST JORDAN, MI. 49727 1-800-874-4100 FAX 231-536-4458	
DRAWN SMH	DATE 11/11/02
APPROVED	DATE
SPECIAL LETTERED COVER	
(*) PRODUCT NO. 00102421	
CATALOG NO. (*) 1020A	
REF. PRODUCT DRAWING 102067	
EST. WT. COVER WT: 115 LBS. (52 kg)	
OPEN AREA N/A	
MAT'L SPEC. COVER - GRAY IRON ASTM A48 CL 35	
LOAD RATING HEAVY DUTY	

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND CLOSE LID STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-24-00 AUTOCAD FILE; S.W. 9-19-01 PER COMMENTS; S.W. 11-12-02 NPDES PHASE II; S.W. 02-07-03 ADDING NEENAH; C.J.C. 01-29-08 AUTOCAD FILE	DETAIL NO. ST-7



NOTE:
1. IF DOWN SPOUT DISCHARGE IS NOT INTO THE STORM SEWER SYSTEM, IT MUST BE TERMINATED NO MORE THAN 10 FT FROM THE BUILDING BUT NOT CLOSER THAN 3 FT FROM THE ADJACENT PROPERTY OR WITH THE DIRECTION OF FLOW ONTO ADJACENT PROPERTY.
2. IF CONNECTING DOWN SPOUT DISCHARGE TO VILLAGE STORM SEWER STRUCTURE, CONNECTION MUST BE CORED AND RUBBER BOOTED.
3. DOWNSPOUT PIPE MATERIAL ON PRIVATE PROPERTY MAY BE PVC OR PE (POLYETHYLENE) PLASTIC PIPE.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	DOWNSPOUT CONNECTION STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 5-17-00 AUTOCAD FILE; S.W. 11-07-02 PER COMMENTS; K.R.G. 9-11-06 AUTOCAD FILE; K.A.G. 1-04-18 NOTES ADDED	DETAIL NO. ST-11

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CIVIL ENGINEER
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Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
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100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

C31

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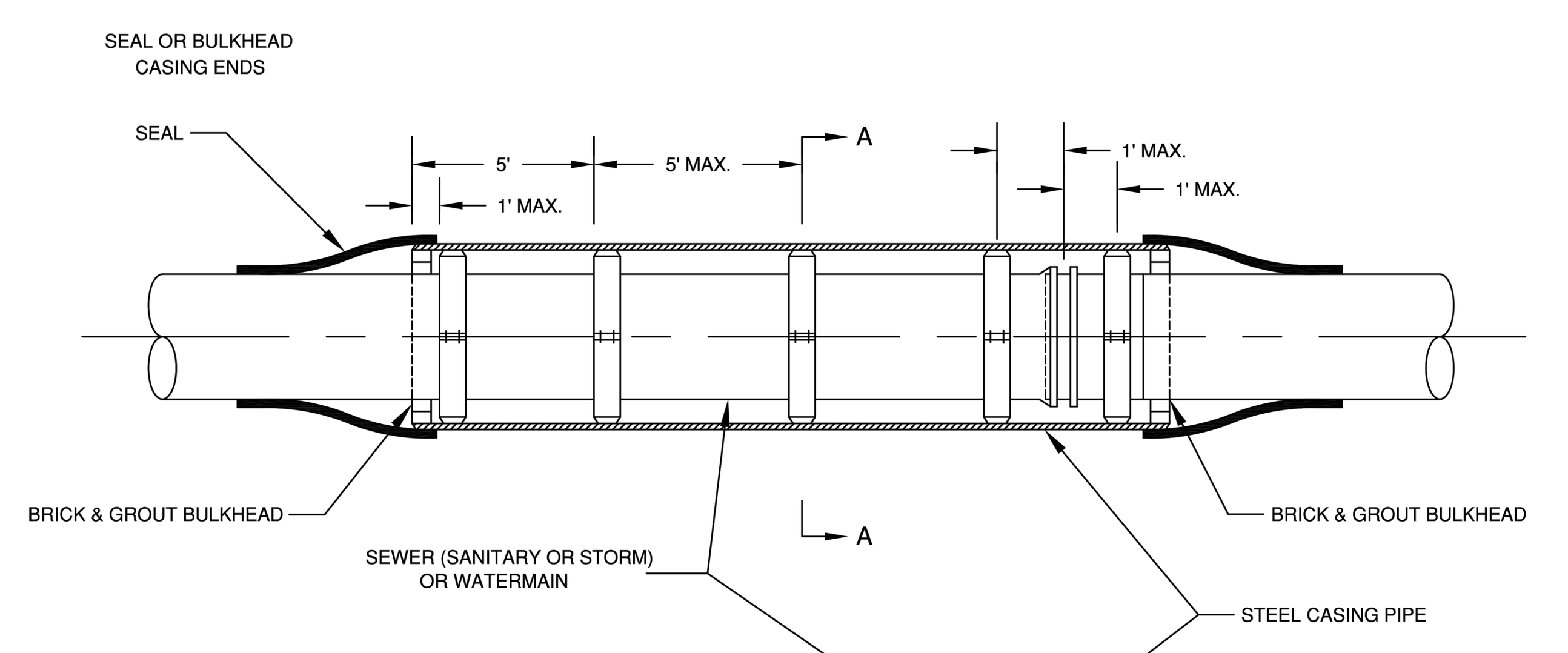
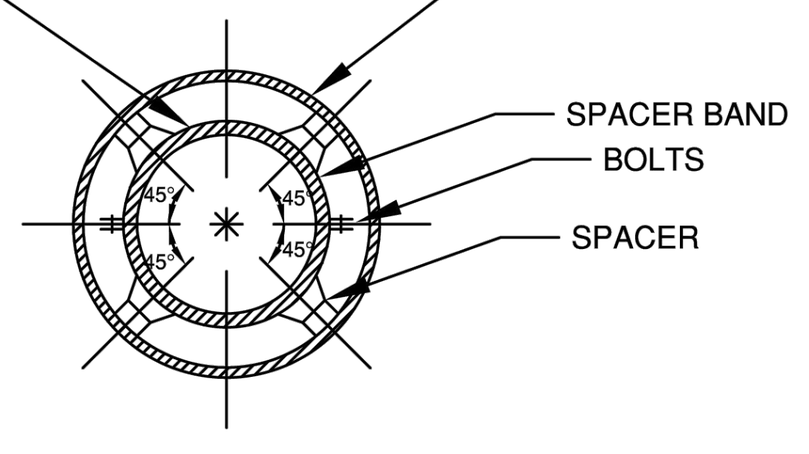
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY



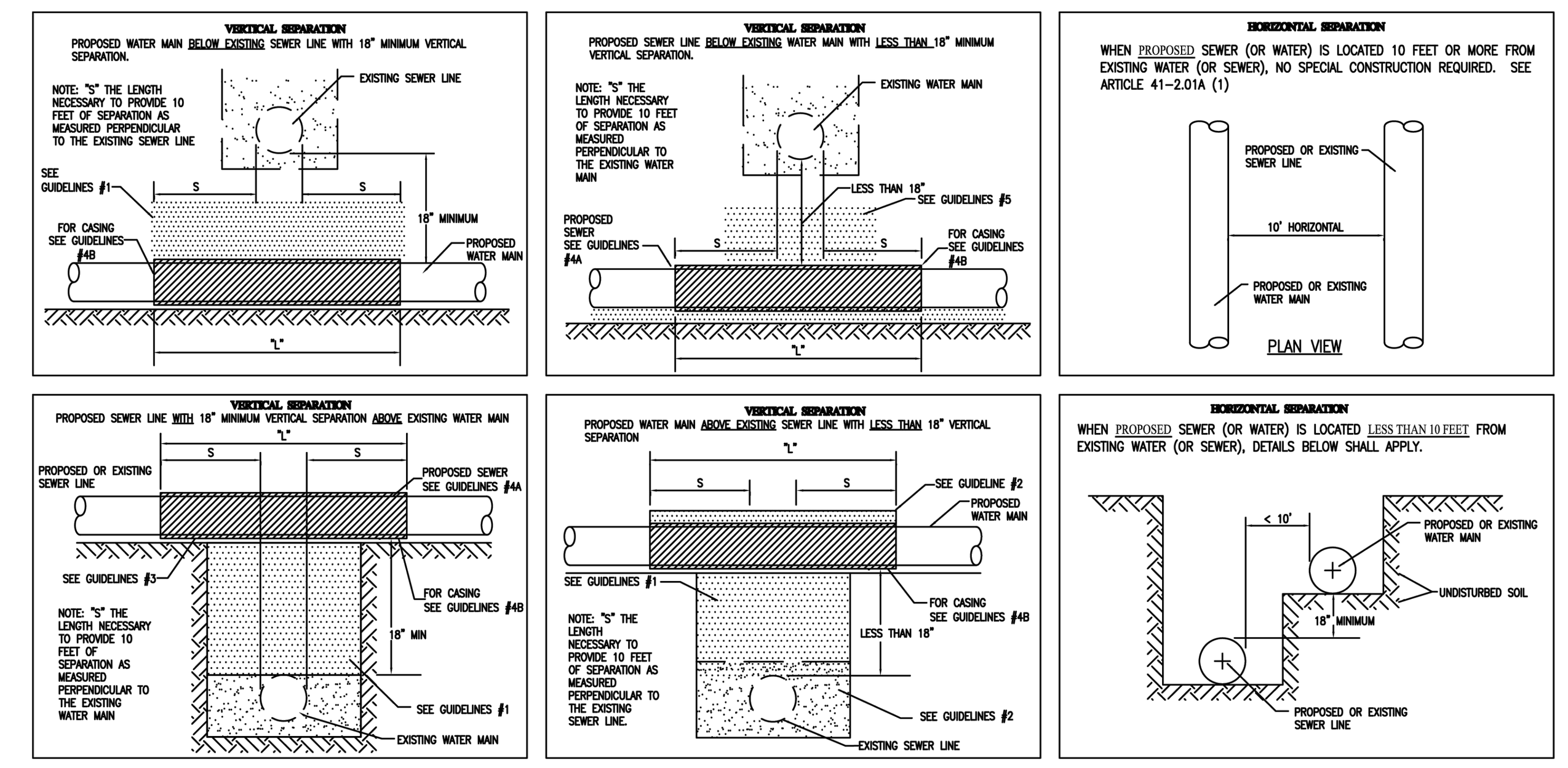
NOTE:

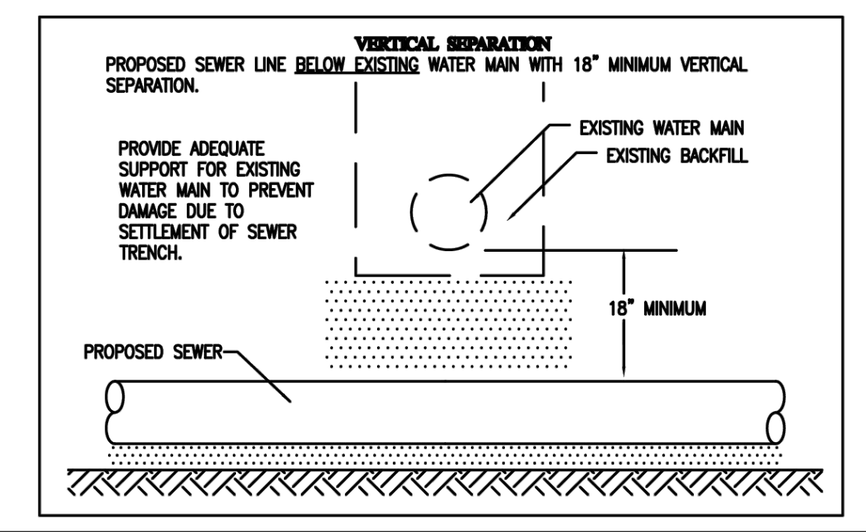
1. THE CASING SPACER SHALL BE THE CENTERED AND RESTRAINED TYPE.
2. THE SPACER BANDS SHALL BE STAINLESS STEEL.
3. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH THE CASING SPACERS SHALL BE STAINLESS STEEL.
4. THE SPACERS SHALL BE STAINLESS STEEL OR VILLAGE APPROVED EQUAL.



SECTION A - A

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	UNDERGROUND UTILITY CASING PIPE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 4-17-00 AUTOCAD FILE; S.W. 6-11-04 SPACER RQRMNT.; K.R.G. 9-11-06 AUTOCAD FILE	DETAIL NO. UTL-3

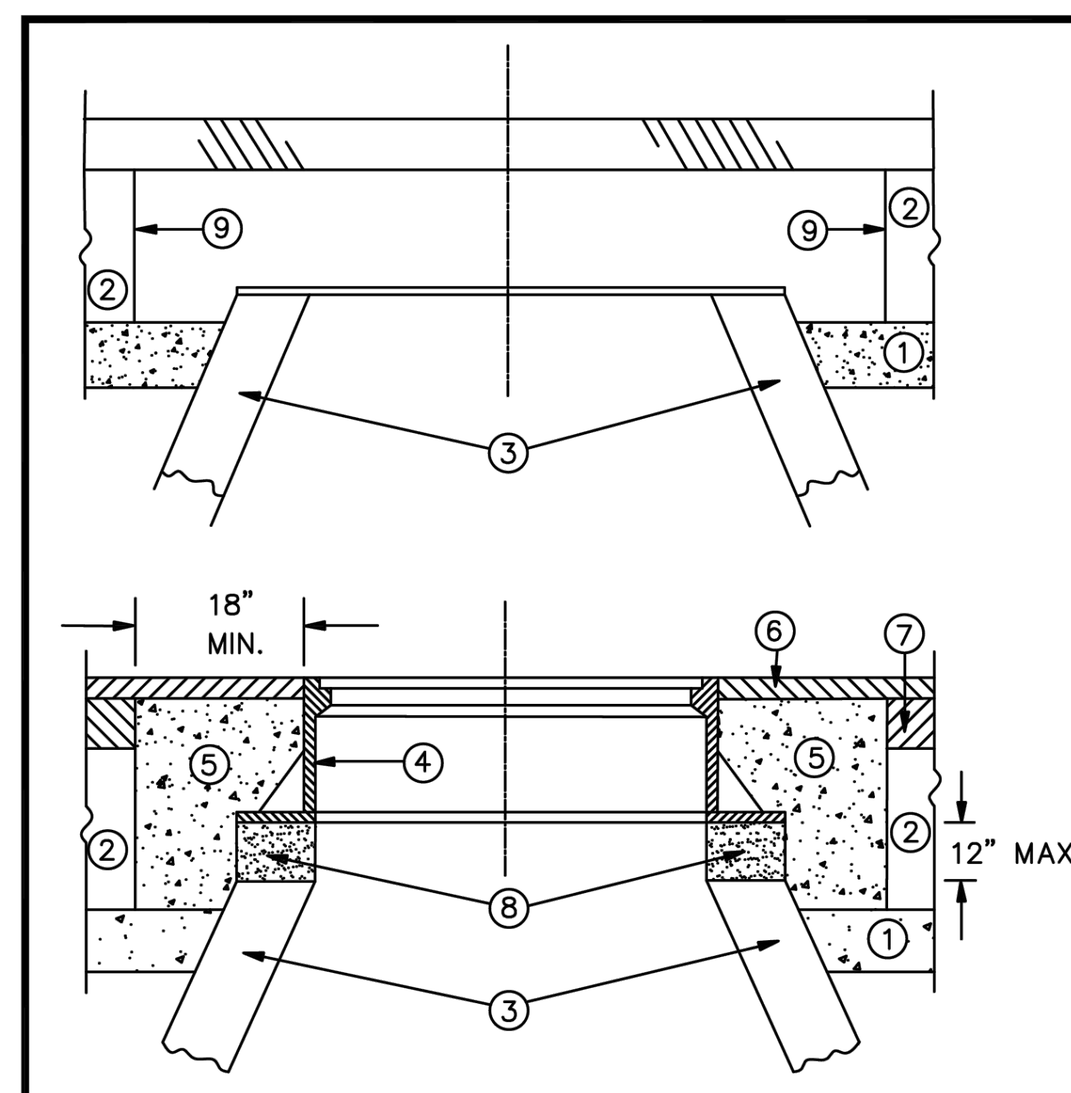




VERTICAL SEPARATION GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
2. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
3. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
4. A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;
   B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
5. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR "S" FEET ON EACH SIDE OF WATER MAIN.
6. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
7. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	UTILITY SEPARATION STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-6-06 AUTOCAD FILE; K.R.G. 9-11-06 AUTOCAD FILE; K.A.G 11-07-16 AUTOCAD FILE	DETAIL NO. UTL-4



LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. EXISTING STRUCTURE
4. FRAME AND LID (SEE NOTES)
5. CLASS SI CONCRETE
6. PROPOSE HMA SURFACE COURSE
7. PROPOSE HMA BINDER COURSE
8. PROPOSED MORTAR, STEEL SHIMS & ADJUSTING RINGS 12" MAXIMUM
9. FULL DEPTH SAW CUT

NOTES:

EXISTING FRAMES AND LIDS SHALL BE REMOVED AND RETURNED TO THE VILLAGE OF WHEELING BY THE COTNRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.

VILLAGE OF WHEELING CASTINGS ARE THE PROPERTY OF THE VILLAGE AND THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF REMOVAL AND DISPOSITION OF THE CASTINGS.

INSTALLATION OF NEW OR ADJUSTMENTS TO EXISTING FRAMES & LIDS WILL NOT BE PAID FOR SEPARATELY BUT ARE INCLUDED AS PART OF THE COST PER EACH ARE INCLUDED AS PART OF THE COST PER EACH ADJUSTED.

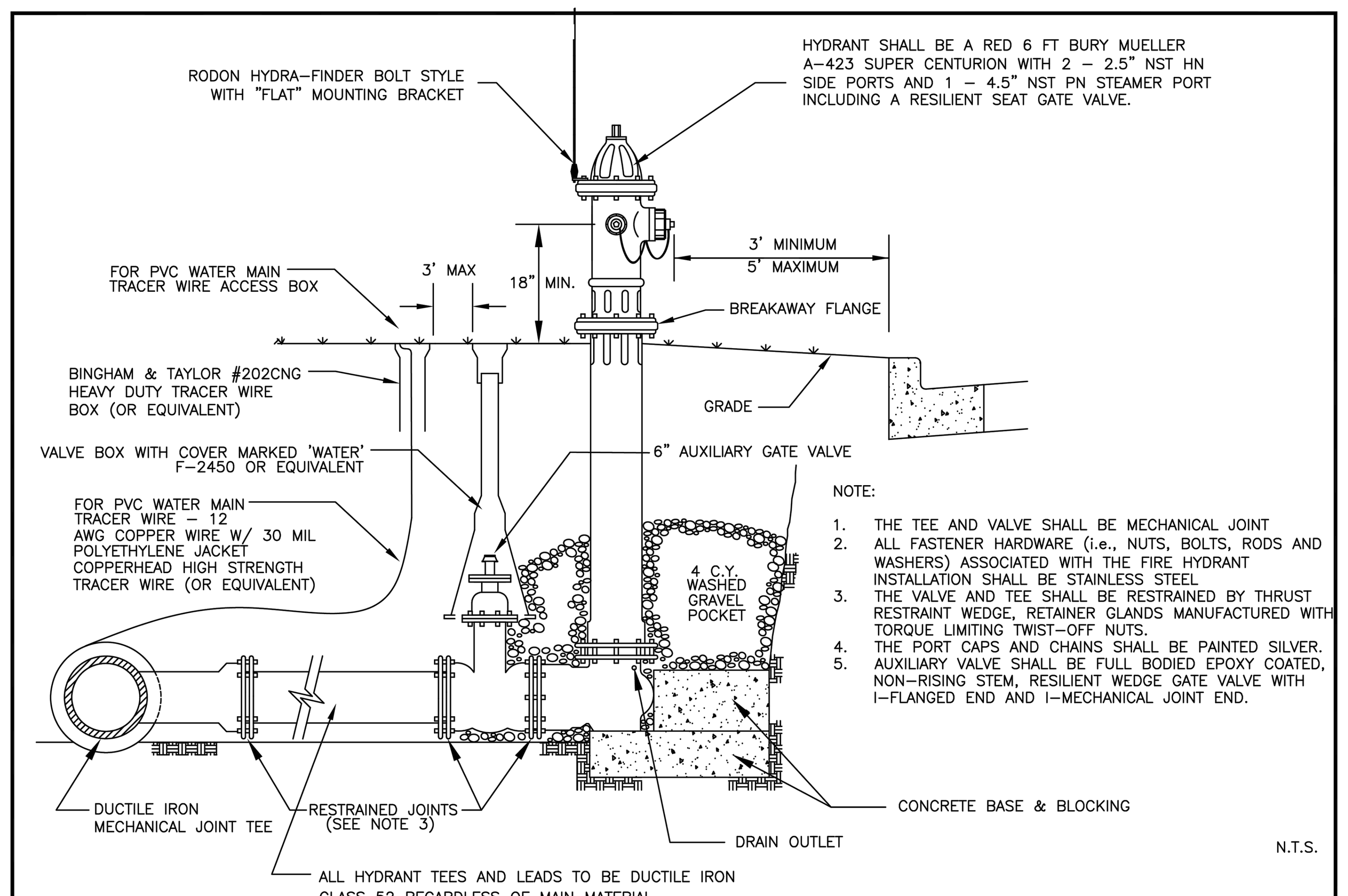
CONSTRUCTION PROCEDURES

STAGE 1 (AFTER PAVEMENT MILLING AND PLACEMENT OF HMA BINDER)

A) FULL DEPTH SAW CUT 5' X 5' SQUARE OR DIAMOND AROUND CENTER OF FRAME TO BE ADJUSTED.
B) REMOVE FRAME, EXISTING PAVEMENT AND AGGREGATE MATERIAL TO A DEPTH OF 2" BELOW TOP OF MANHOLE STRUCTURE OR 2" BELOW BOTTOM OF LOWEST ADJUSTMENT RING.
C) ADJUST NEW FRAME TO MATCH PROPOSED HMA PAVEMENT SURFACE GRADE USING MORTAR, STEEL SHIMS EMBEDDED IN MORTAR, AND PRECAST CONCRETE ADJUSTING RINGS.
D) COMPACT EXISTING AGGREGATE STONE BASE.
E) FILL 5' X 5' SURROUNDING SPACE WITH IDOT APPROVED CLASS SI CONCRETE TO THE SAME ELEVATION OF THE TOP OF THE BINDER COURSE.
F) PAVE SURFACE COURSE OVER 5' X 5' CONCRETE COLLAR.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND LID ADJUSTMENT WITH CONCRETE COLLAR	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS	DETAIL NO. UTL-7

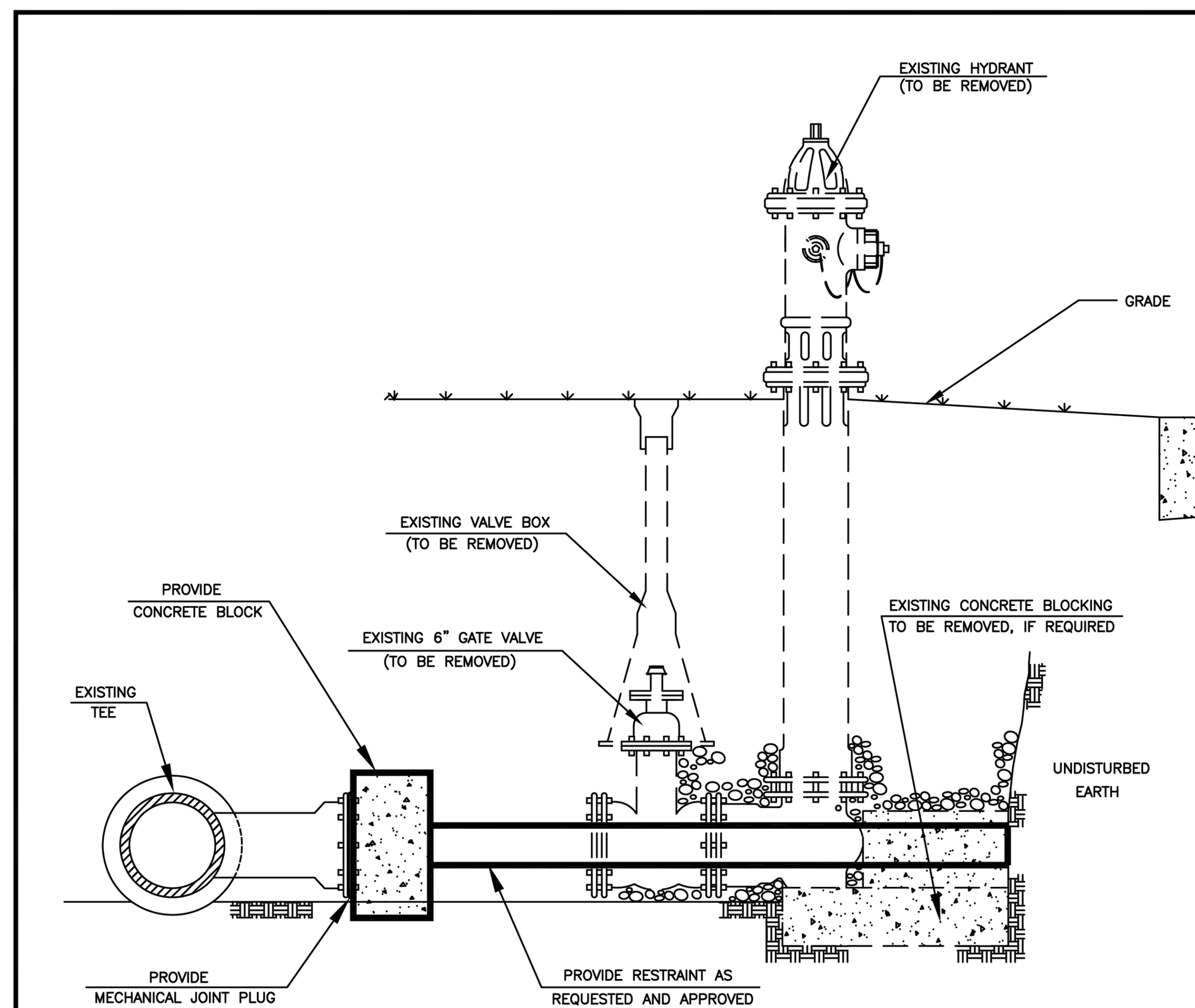


NOTE:

1. THE TEE AND VALVE SHALL BE MECHANICAL JOINT
2. ALL FASTENER HARDWARE (i.e., NUTS, BOLTS, RODS AND WASHERS) ASSOCIATED WITH THE FIRE HYDRANT INSTALLATION SHALL BE STAINLESS STEEL
3. THE VALVE AND TEE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS.
4. THE PORT CAPS AND CHAINS SHALL BE PAINTED SILVER.
5. AUXILIARY VALVE SHALL BE FULL BODIED EPOXY COATED, NON-RISING STEM, RESILIENT WEDGE GATE VALVE WITH I-FLANGED END AND I-MECHANICAL JOINT END.

N.T.S.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FIRE HYDRANT INSTALLATION STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: C.C. 03-07-07 PER COMMENTS; S.W. 08-15-08 EJIW WaterMaster.; K.R.G. 07-05-11 HYDRA-FINDER; K.A.G. 12-11-18 TRACER BOX; K.A.G. 1-13-21 MUELLER HYD. ONLY	DETAIL NO. W-1

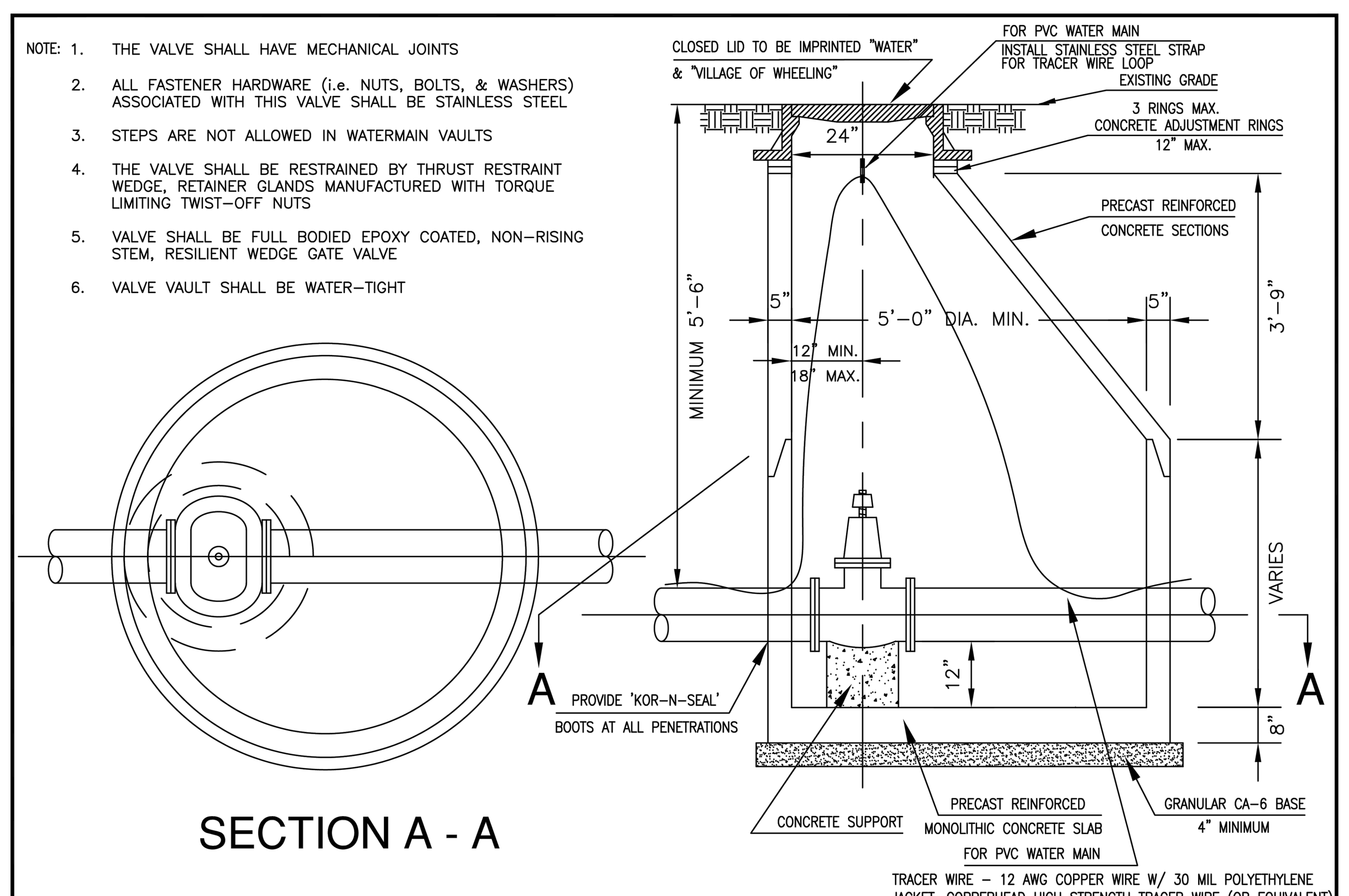


NOTE:

1. NOTIFY P/W UTILITY DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (847) 279-6900.
2. COORDINATE WATER SHUTDOWN WITH THE PUBLIC WORKS DEPARTMENT, EXCAVATE AREA AND DISCONNECT HYDRANT LEAD, PLATE TEE, BLOCK AND RESTRAIN.
3. RETURN HYDRANT, AUXILIARY VALVE AND BOX TO PUBLIC WORKS DEPARTMENT.
4. BACKFILL AND COMPACTION PER THE VILLAGE OF WHEELING'S STANDARD.
5. THE PLUG SHALL BE MECHANICAL JOINT.
6. ALL FASTENER HARDWARE (i.e., NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH THE PLUG SHALL BE STAINLESS STEEL.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FIRE HYDRANT ABANDONMENT STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: R.A. 8-19-99; S.W. 3-2-00 AUTOCAD FILE; C.J.C. 9-11-06 AUTOCAD FILE; S.W. 01-24-07 PER COMMENTS; K.A.G. 11-21-16 CHANGE PHONE #	DETAIL NO. W-2

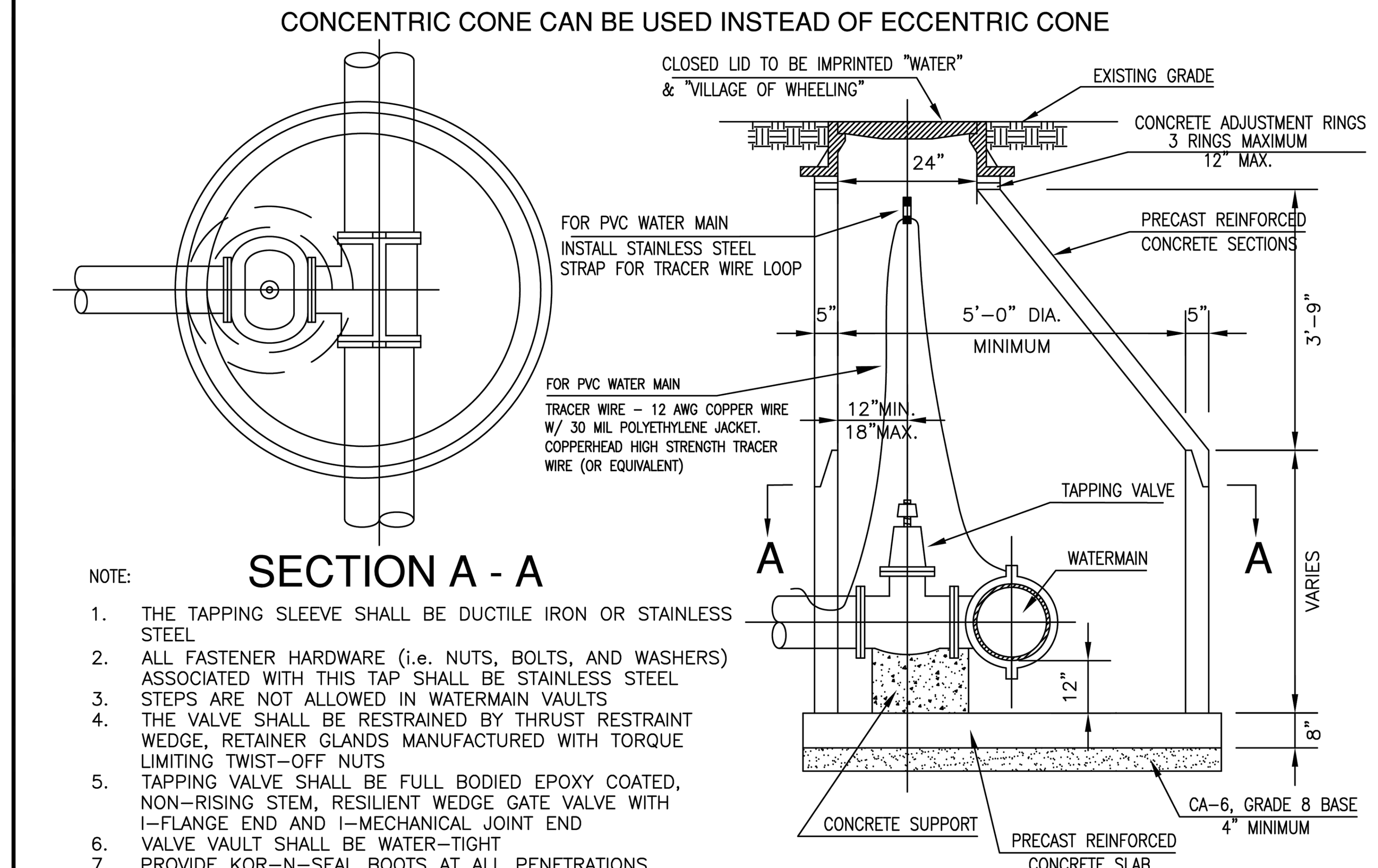
NOTE:
1. THE VALVE SHALL HAVE MECHANICAL JOINTS
2. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, & WASHERS) ASSOCIATED WITH THIS VALVE SHALL BE STAINLESS STEEL
3. STEPS ARE NOT ALLOWED IN WATERMAIN VAULTS
4. THE VALVE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS
5. VALVE SHALL BE FULL BODIED EPOXY COATED, NON-RISING STEM, RESILIENT WEDGE GATE VALVE
6. VALVE VAULT SHALL BE WATER-TIGHT



SECTION A - A

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	5' DIA. VALVE VAULT STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 11-07-01 PER COMMENTS; C.C. 03-07-07 PER COMMENTS; K.R.G. 07-18-07 PER COMMENTS; K.A.G. 12-11-18 TRACER WIRE	DETAIL NO. W-3

CONCENTRIC CONE CAN BE USED INSTEAD OF ECCENTRIC CONE



SECTION A - A

NOTE:

1. THE TAPPING SLEEVE SHALL BE DUCTILE IRON OR STAINLESS STEEL
2. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH THIS TAP SHALL BE STAINLESS STEEL
3. STEPS ARE NOT ALLOWED IN WATERMAIN VAULTS
4. THE VALVE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS
5. TAPPING VALVE SHALL BE FULL BODIED EPOXY COATED, NON-RISING STEM, RESILIENT WEDGE GATE VALVE WITH I-FLANGE END AND I-MECHANICAL JOINT END
6. VALVE VAULT SHALL BE WATER-TIGHT
7. PROVIDE KOR-N-SEAL BOOTS AT ALL PENETRATIONS

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	VALVE & TAPPING VAULT STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 4-12-00 AUTOCAD FILE; C.C. 03-07-07 PER COMMENTS; S.W. 08-15-08 CONCENTRIC CONE; K.A.G. 01-03-18 TRACER WIRE	DETAIL NO. W-4

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CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

C32

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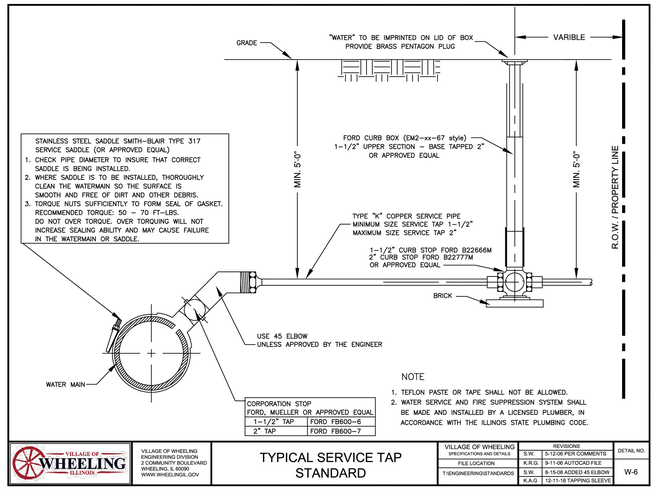
File Location: G:\5900\5987.151 Wheeling PD Aquatic Cntr\5987.151 DT / SAVE DATE: 2/26/2026 11:04 AM BY: pswiatek / PLOT DATE: 2/26/2026 3:51 PM BY: Brian Spencer

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR BLACK AND WHITE PRINTS



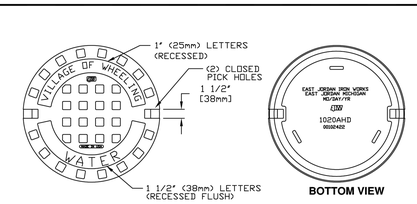
NOTE
1. TEFLON PASTE OR TAPE SHALL NOT BE ALLOWED.
2. WATER SERVICE AND FIRE SUPPRESSION SYSTEM SHALL BE MADE AND INSTALLED BY A LICENSED PLUMBER, IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

TYPICAL SERVICE TAP STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	5-12-06 PER COMMENTS	W-6
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	
	S.W.	8-15-06 ADDED 45 ELBOW	
	K.A.G.	12-11-18 TAPPING SLEEVE	



(*) or NEENAH CATALOG R-1713
SHOP DRAWING NF-1015 T46

√ MACHINED SURFACE

(*) EAST JORDAN IRON WORKS, INC.
P.O. BOX 439
EAST JORDAN, MI. 49727
1-800-874-4100
FAX 231-536-4458

DRAWN	DATE
SMH	11/11/02
APPROVED	DATE

SPECIAL LETTERED COVER

(*) PRODUCT NO.
00102422

CATALOG NO.
(*) **1020A**

REF. PRODUCT DRAWING
00102067

EST. WT.
COVER WT: 115 LBS (52kg)

OPEN AREA
N/A

MAT'L SPEC.
COVER – GRAY IRON ASTM A48 CL 35

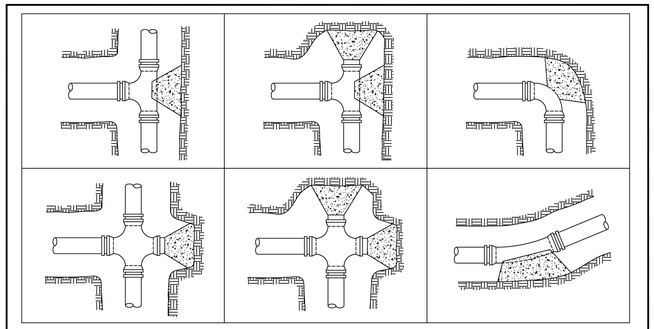
LOAD RATING
HEAVY DUTY

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

FRAME AND CLOSED LID WATER MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	2-24-00 AUTOCAD FILE	W-7
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	
	S.W.	11-13-07 ENPOSS PHASE II	
	S.W.	10-27-09 ADDING NEENAH	
	C.J.C.	01-29-08 AUTOCAD FILE	



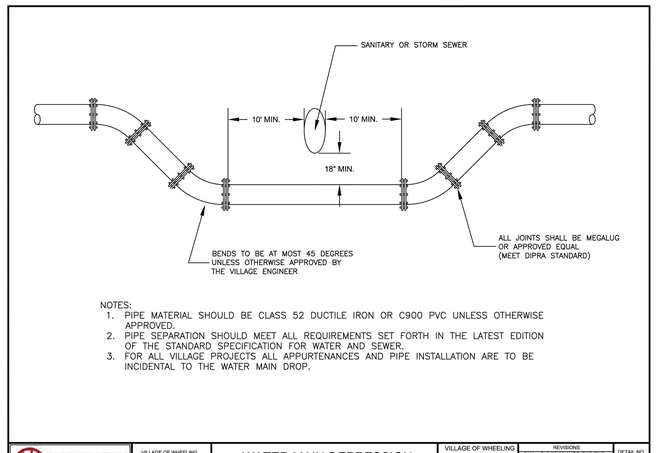
NOTE
1. ALL BLOCKING SHALL BE CONSTRUCTED WITH POURED CLASS SI CONCRETE AGAINST UNDISTURBED VERTICAL EARTH FACE WITH A MINIMUM WIDTH OF 12 INCHES.
2. RESTRAINED JOINTS AND THRUST BLOCKS TO BE USED AT ALL BENDS, AT TEES AND AT CROSSES AS SHOWN ABOVE, OR AS REQUIRED PER THE VILLAGE ENGINEER.
3. THE FITTINGS SHALL BE MECHANICAL JOINT.
4. OTHER METHODS MAY BE USED AS AN ALTERNATIVE WHEN APPROVED BY THE VILLAGE ENGINEER.
5. ALL FASTENER HARDWARE (i.e. NUTS, BOLTS, AND WASHERS) ASSOCIATED WITH FITTINGS SHALL BE STAINLESS STEEL.
6. ALL FITTINGS SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING TWIST-OFF NUTS.

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

THRUST BLOCK STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	4-27-00 AUTOCAD FILE	W-8
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	
	T.W.M.	3-18-14 CONCRETE CLASS	



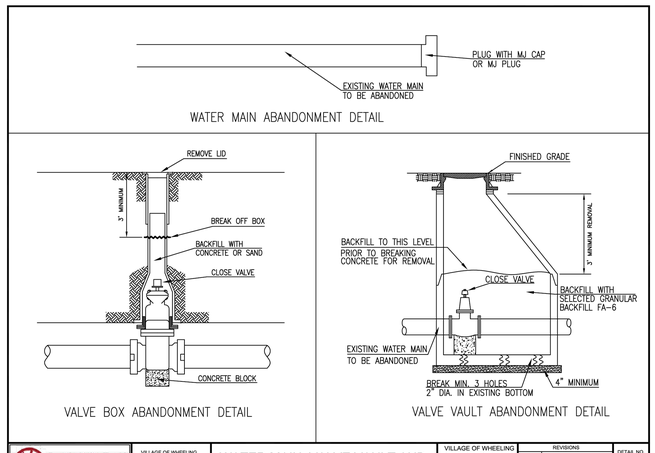
NOTES:
1. PIPE MATERIAL SHOULD BE CLASS 52 DUCTILE IRON OR C900 PVC UNLESS OTHERWISE APPROVED.
2. PIPE SEPARATION SHOULD MEET ALL REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE STANDARD SPECIFICATION FOR WATER AND SEWER.
3. FOR ALL VILLAGE PROJECTS ALL APPURTENANCES AND PIPE INSTALLATION ARE TO BE INCIDENTAL TO THE WATER MAIN DROP.

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

WATER MAIN DEPRESSION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	5-30-00 AUTO-CAD FILE	W-9
T:\ENGINEERING\STANDARDS	S.W.	5-11-06 PER COMMENTS	
	C.J.C.	01-20-08 AUTOCAD FILE	
	K.A.G.	01-21-20 NOTES	

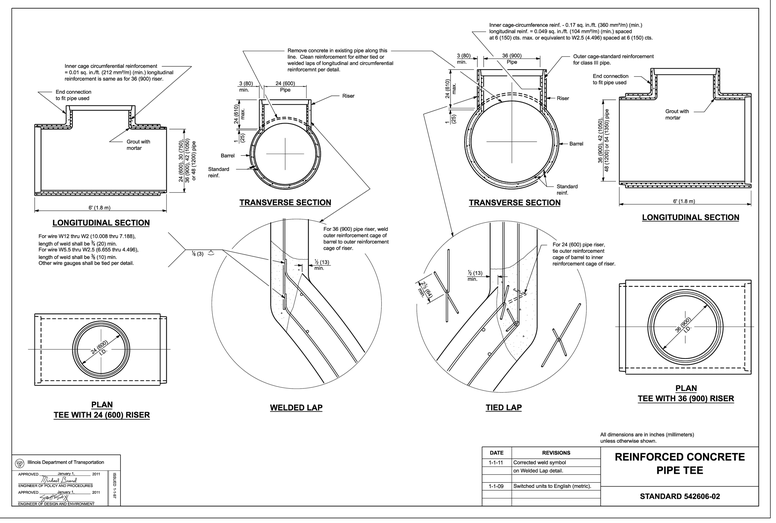


VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

WATER MAIN, VALVE VAULT AND BOX ABANDONMENT DETAIL

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION			W-11
T:\ENGINEERING\STANDARDS			



All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: _____ DEVELOPMENT
ENGINEER OF POLICY AND PROCEDURES

APPROVED: _____ DEVELOPMENT
ENGINEER OF DESIGN AND ENVIRONMENT

STANDARD 542606-02 SHEET 1 OF 1

DATE	REVISIONS
1-1-11	Corrected weld symbol on Welded Lap detail.
1-1-09	Switched units to English (metric).

REINFORCED CONCRETE PIPE TEE

STANDARD 542606-02

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

VILLAGE OF WHEELING DETAILS

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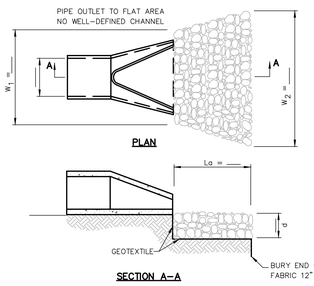
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOT SCALE (ARCH D SHEET)

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR PRINTING PURPOSES

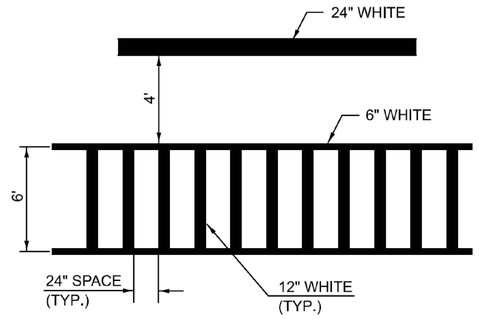
NOTES:

1. ALL GEOTEXTILE SHALL BE NON-WOVEN TABLE 1, CLASS 2 MATERIAL.
2. THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 61 LOOSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED.

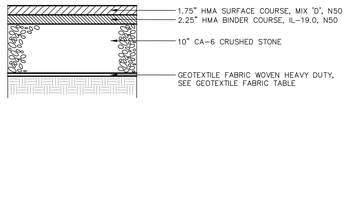


03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC. — PIPE OUTLET TO FLAT AREA



TYPICAL SPACING FOR CROSSWALKS & STOP BARS

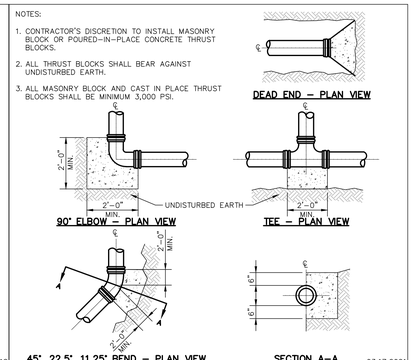


10.12.2018

GHA GEWALT HAMILTON ASSOCIATES, INC. — NORMAL DUTY PAVEMENT DETAIL

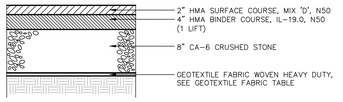
NOTES:

1. CONTRACTOR'S DISCRETION TO INSTALL MASONRY BLOCK OR POURED-IN-PLACE CONCRETE THRUST BLOCKS.
2. ALL THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
3. ALL MASONRY BLOCK AND CAST IN PLACE THRUST BLOCKS SHALL BE MINIMUM 3,000 PSI.



03.17.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — THRUST BLOCKING

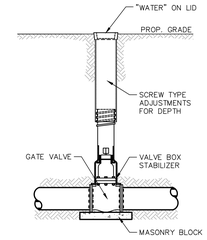


10.12.2018

GHA GEWALT HAMILTON ASSOCIATES, INC. — HEAVY DUTY PAVEMENT DETAIL

NOTES:

1. SEE WATER TABLE FOR FURTHER REQUIREMENTS.

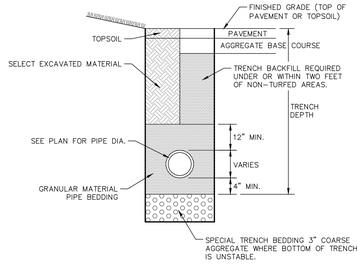


03.17.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — VALVE BOX

NOTE:
SEE SANITARY TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.

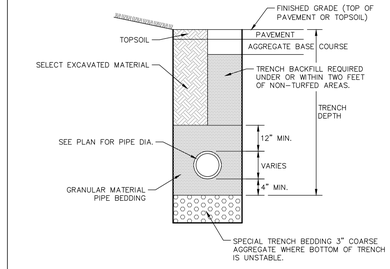


04.02.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — SANITARY TRENCH DETAIL

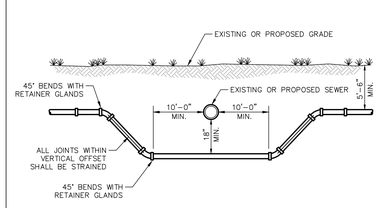
NOTE:
SEE WATER TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.



04.02.2021

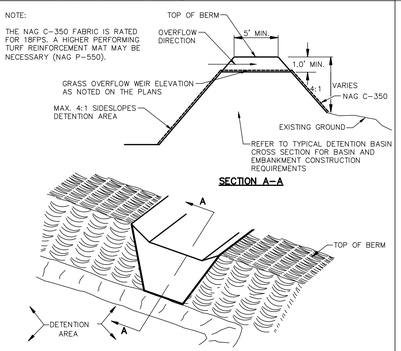
GHA GEWALT HAMILTON ASSOCIATES, INC. — WATER MAIN TRENCH



04.02.2021

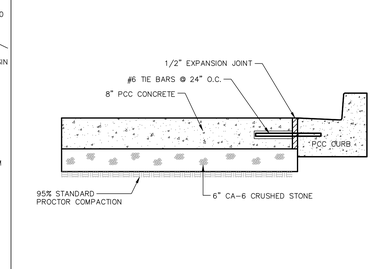
GHA GEWALT HAMILTON ASSOCIATES, INC. — HORIZONTAL WATER MAIN SEPARATION

NOTE:
THE NAG C-350 FABRIC IS RATED FOR 18FPS. A HIGHER PERFORMING TURF REINFORCEMENT MAT MAY BE NECESSARY (NAG P-550).



03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC. — GRASS OVERFLOW WEIR DETAIL

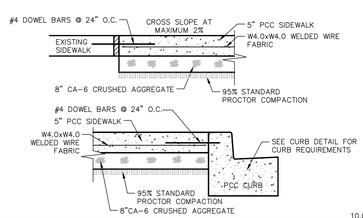


02.01.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — PCC PAVEMENT DETAIL

NOTES:

1. SET 1/2" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 60' MAX. INTERVALS.
2. CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVE A 1/4" RADIUS.
3. SIDEWALK WIDTH AS SHOWN ON PLANS.
4. SIDEWALK JOINTS SHALL MATCH CURB CONTROL AND CONSTRUCTION JOINTS.
5. W4.0xW4.0 WELDED WIRE FABRIC SHALL BE INSTALLED ON CHAIRS/SHOES PRIOR TO POURING OF CONCRETE.

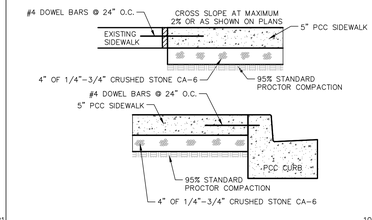


10.05.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — PCC SIDEWALK DETAIL WITH WELDED WIRE FABRIC

NOTES:

1. SET 1/2" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 60' MAX. INTERVALS.
2. CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVE A 1/4" RADIUS.
3. SIDEWALK WIDTH AS SHOWN ON PLANS.
4. SIDEWALK JOINTS SHALL MATCH CURB CONTROL AND CONSTRUCTION JOINTS.

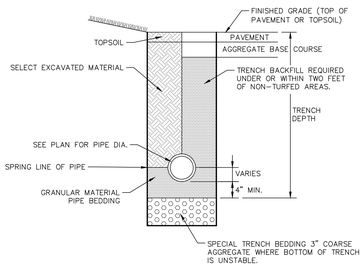


10.05.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — PCC SIDEWALK DETAIL

NOTE:
SEE STORM TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.



04.02.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — STORM TRENCH DETAIL RIGID PIPE INSTALLATION

VERTICAL SEPARATION REQUIREMENTS

CROSSING	REQUIRED VERTICAL SEPARATION	ADDITIONAL REQUIREMENTS (SELECT ONE)
WATER OVER SEWER	WATER INVERT >18" ABOVE CROWN OF SEWER.	**VERTICAL SEPARATION < 18"** 1. WATER OR SEWER TO BE ENCASED FOR A MINIMUM DISTANCE OF 10' FROM THE EDGE OF PIPE, ON EITHER SIDE, PERPENDICULAR TO THE CROSSING. 2. SEWER TO BE WATER MAIN CLASS PIPE FOR A DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING.
SEWER OVER WATER	SEWER INVERT >18" ABOVE CROWN OF WATER. (SEWER INVERT < 18" ABOVE CROWN OF WATER NEVER ALLOWED)	**VERTICAL SEPARATION < 18" (NEVER ALLOWED)** 1. WATER OR SEWER TO BE ENCASED FOR A MINIMUM DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING. 2. SEWER TO BE WATER MAIN CLASS PIPE FOR A DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING.

NOTES:

1. SEE WATER TABLE FOR FURTHER MATERIAL REQUIREMENTS.
2. SEPARATION REQUIREMENTS APPLY TO BOTH EXISTING AND PROPOSED WATER MAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER, AND ALL SERVICE CONNECTIONS.
3. WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS, SEEPAGE BEDS, AND LIFT STATIONS BY A MINIMUM OF 25'.

HORIZONTAL SEPARATION REQUIREMENTS

REQUIRED HORIZONTAL SEPARATION	ADDITIONAL REQUIREMENTS
10' OF LATERAL SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE.	**HORIZONTAL SEPARATION < 10'** 1. WATER INVERT 18" ABOVE CROWN OF SEWER. **HORIZONTAL SEPARATION < 10' & VERTICAL SEPARATION < 18"** 2. SEWER CONSTRUCTED WITH WATER MAIN CLASS PIPE (SEE VERTICAL SEPARATION REQUIREMENTS) AND PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE PRIOR TO BACKFILLING.

RESTRAINED LENGTH TABLE

TYPE OF FITTING	RESTRAINED LENGTH (EACH WAY)
TEE AND PLUG	LENGTH OF TEE
90° BEND	18'-0"
45° BEND	8'-0"
22 1/2° BEND	4'-0"
11 1/4° BEND	2'-0"

LOCKING GASKET LENGTH TABLE

TYPE OF BEND/FITTING	DISTANCE FROM BEND/FITTING (EACH WAY)
45° HORIZONTAL BEND	15'-0"
22.5° HORIZONTAL BEND	10'-0"
45° VERTICAL OFFSET	25'-0"
TEES	PROVIDE THRUST BLOCK
PRESSURE CONNECTION	PROVIDE THRUST BLOCK
END CAPS	PROVIDE THRUST BLOCK

04.02.2021

GHA GEWALT HAMILTON ASSOCIATES, INC. — WATER MAIN INSTALLATION AND SEPARATION REQUIREMENTS

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
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ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
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CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
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AQUATICS DESIGNER
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100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

DETAILS

C34

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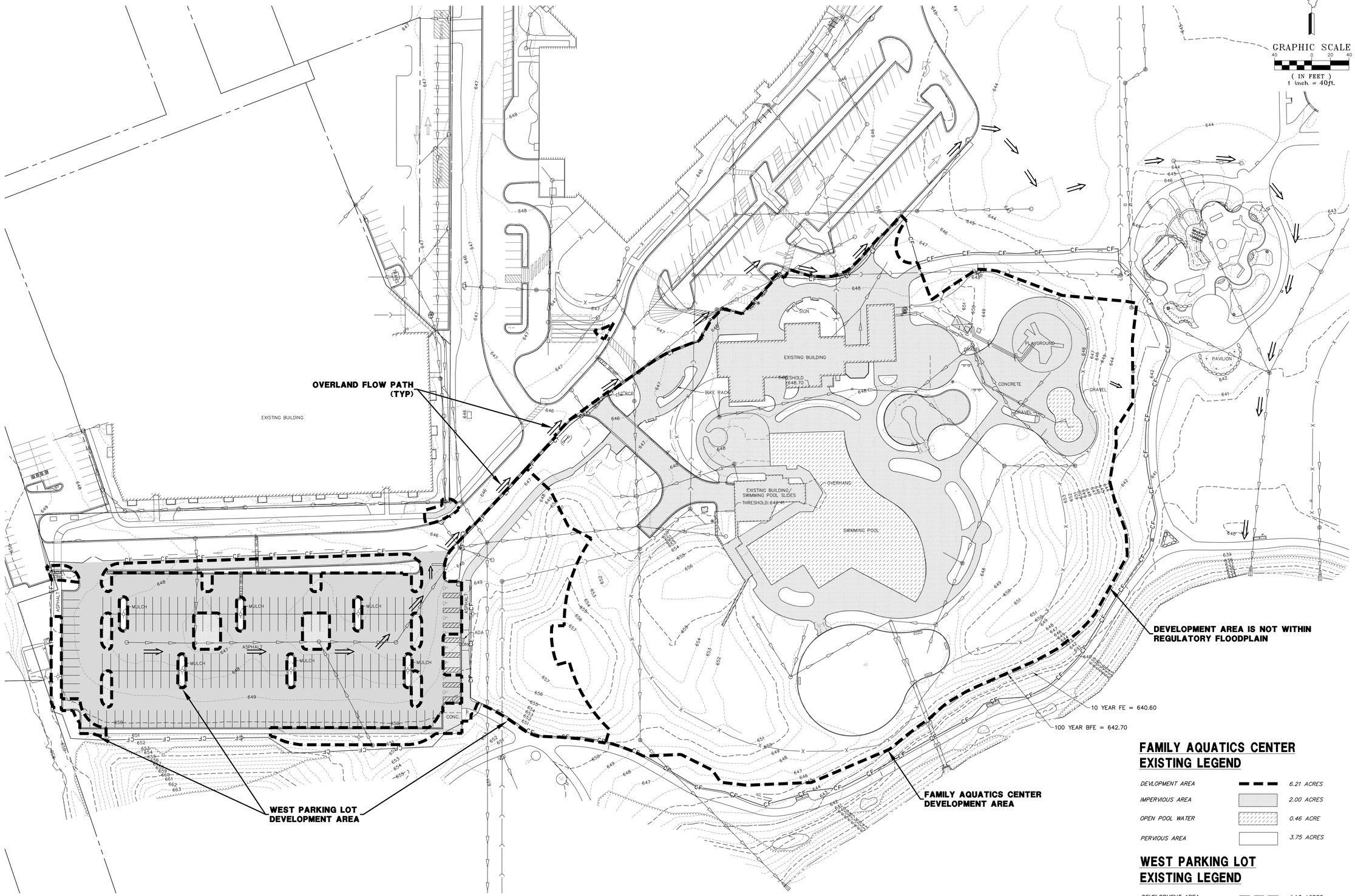

FAMILY AQUATICS CENTER EXISTING LEGEND

DEVLOPMENT AREA	6.21 ACRES
IMPERVIOUS AREA	2.00 ACRES
OPEN POOL WATER	0.46 ACRE
PERVIOUS AREA	3.75 ACRES

WEST PARKING LOT EXISTING LEGEND

DEVELOPMENT AREA	1.13 ACRES
IMPERVIOUS AREA	0.35 ACRE
PERVIOUS AREA	0.78 ACRE
MAINTENANCE AREA	1.46 ACRES
OVERLAND FLOW ROUTE	

EXISTING LAKE HERITAGE DETENTION DATA

TOTAL DRAINAGE AREA = 57.5 AC

FOR WHEELING PARK DISTRICT:
EXISTING EXCESS DETENTION STORAGE = 0.78 AC-FT

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS. IF PRINTED CORRECTLY

CONFLUENCE

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312.663.5494
www.thinkconfluence.com

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LEGAT ARCHITECTS, INC.
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

ISSUED FOR BID
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Revision Schedule

No.	Date	Description
1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

EXISTING DRAINAGE EXHIBIT

C35

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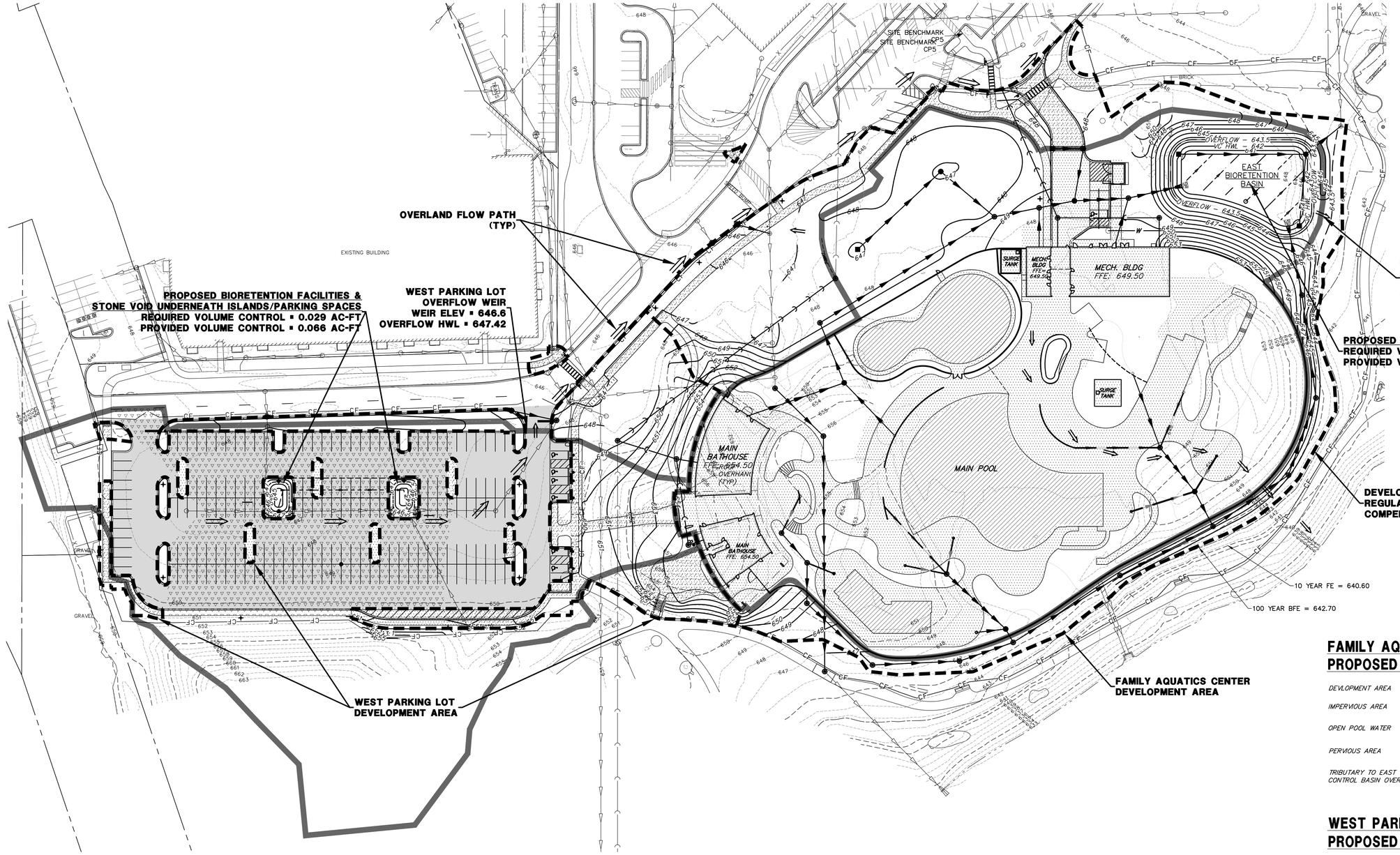
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS PLOTTED SCALE.

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR BLACK AND WHITE PRINTERS.



N

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40ft.

FAMILY AQUATICS CENTER PROPOSED LEGEND

DEVELOPMENT AREA	6.21 ACRES
IMPERVIOUS AREA	2.08 ACRES
OPEN POOL WATER	0.60 ACRE
PERVIOUS AREA	3.53 ACRES
TRIBUTARY TO EAST VOLUME CONTROL BASIN OVERFLOW WEIR	4.97 ACRES

WEST PARKING LOT PROPOSED LEGEND

DEVELOPMENT AREA	1.13 ACRES
IMPERVIOUS AREA	0.35 ACRE
PERVIOUS AREA	0.78 ACRE
MAINTENANCE AREA	1.46 ACRES
TRIBUTARY TO WEST PARKING LOT OVERFLOW WEIR	3.17 ACRES
DEVELOPMENT IMPERVIOUS AREA NOT TRIBUTARY TO VOLUME CONTROL	0.44 ACRE
TRADEOFF IMPERVIOUS AREA TO VOLUME CONTROL	0.94 ACRE
OVERLAND FLOW ROUTE	

EXISTING LAKE HERITAGE DETENTION DATA

TOTAL DRAINAGE AREA ▪ 57.5 AC

FOR WHEELING PARK DISTRICT:
EXISTING EXCESS DETENTION STORAGE ▪ 0.78 AC-FT
2025 ADDITIONAL REQUIRED DETENTION STORAGE ▪ 0.72 AC-FT
EXCESS STORAGE AFTER 2025 PROJECT ▪ 0.06 AC-FT

MAINTENANCE PLAN FOR WHEELING PARK DISTRICT

Wheeling Park District with facilities as shown on this exhibit, shall assume responsibility for the following perpetual maintenance activities:

1. General
Regular inspections and routine maintenance of general areas shall be performed on a quarterly or as-needed basis. Specific items of concern include:
- Litter and debris shall be controlled
- Landscaped areas shall be maintained with regular mowing and restored with appropriate seeding/vegetation as necessary
- Accumulated sediment shall be disposed of properly, along with any wastes generated during maintenance operations
- Riprap areas shall be repaired with the addition of new riprap, as necessary, of similar size and shape
- Roads shall be swept, vacuumed and/or washed on a regular basis

2. Volume Control Facility
Routine inspections and maintenance of volume control facilities shall be performed by the Owner on a yearly or as-needed basis. Specific items of concern include:
- Facility shall be inspected yearly to verify the system is functioning properly.
- Accumulated sediment from surface shall be vacuumed out and disposed of properly.

Vegetated Areas
- Regular mowing to control vegetation, no cutting of native vegetation
- Need for planting, reseeding or sodding. Supplement alternative native vegetation if a significant portion has not established (50% of the surface area). Reseed with alternative grass species if original grass cover has not successfully established
- Evidence of grazing, motorbikes or other vehicles, repair
- Check for invasive vegetation, remove where possible
- All vegetation must be maintained per the approved planting plan

3. Stormwater Collection System
The Owner shall perform two inspections per year of all components of the stormwater collection system. The inspections shall occur in the spring and fall of each year and include the following specific areas of concern.

Storm Inlets/Manholes
- Remove accumulated leaves and other debris from grates
- Reset covers/lids on as-needed basis
- Remove accumulated sediment from manhole bottom when 50% of sump is filled

Storm Sewers
- Visually inspect pipes by removing manhole lids, make repairs as necessary
- Storm sewers shall be checked for siltation deposits at inlets, outlets, and within the conduit, clean out as necessary
- Replant and reseed any eroded areas
- Restore riprap at outfalls if erosion observed

4. Overflow Weirs
- Annual visual inspections shall be performed that verify the design capacity of the overflow weir is maintained
- Remove any obstructions that have been placed in the drainage path
- Regrade to provide positive drainage as necessary

5. Vegetated Areas
- Need for planting, reseeding, or sodding. Supplement alternative native vegetation if a significant portion has not established (50% of the surface area after second growing season). Reseed with alternative native grass species if original grass cover has not successfully established.
- Evidence of grazing, motorbikes, or other vehicles, repair
- Check for invasive vegetation, remove when possible
- Regular mowing to control vegetation; it is recommended that native vegetation remain uncut
- Dead or damaged non-native grassy areas - repair with seeding with fertilization or seeding with mulch

6. Qualified Sewer Construction
- Perform manhole inspections once every five years, make repairs as necessary
- Perform sewer inspections once every five years, make repairs as necessary
- Perform regular cleaning so that each sewer segment is cleaned once every 5 years

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Revision Schedule

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1	02-26-2026	Major Site Plan Resubmittal 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	BID PACK 3 (EARTHWORK, SITE, UTILITIES)
Date	02-26-2026

PROPOSED DRAINAGE EXHIBIT

C36

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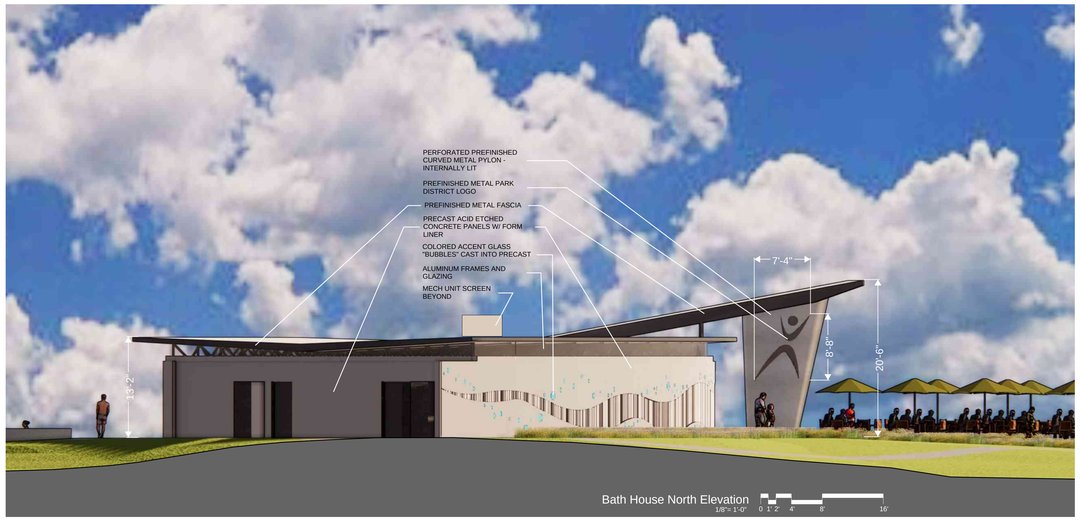
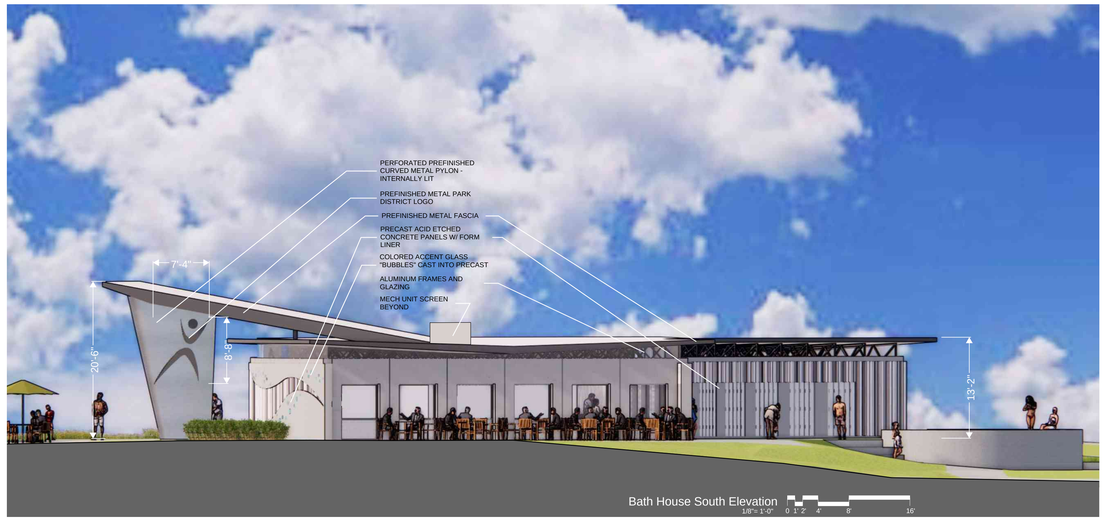
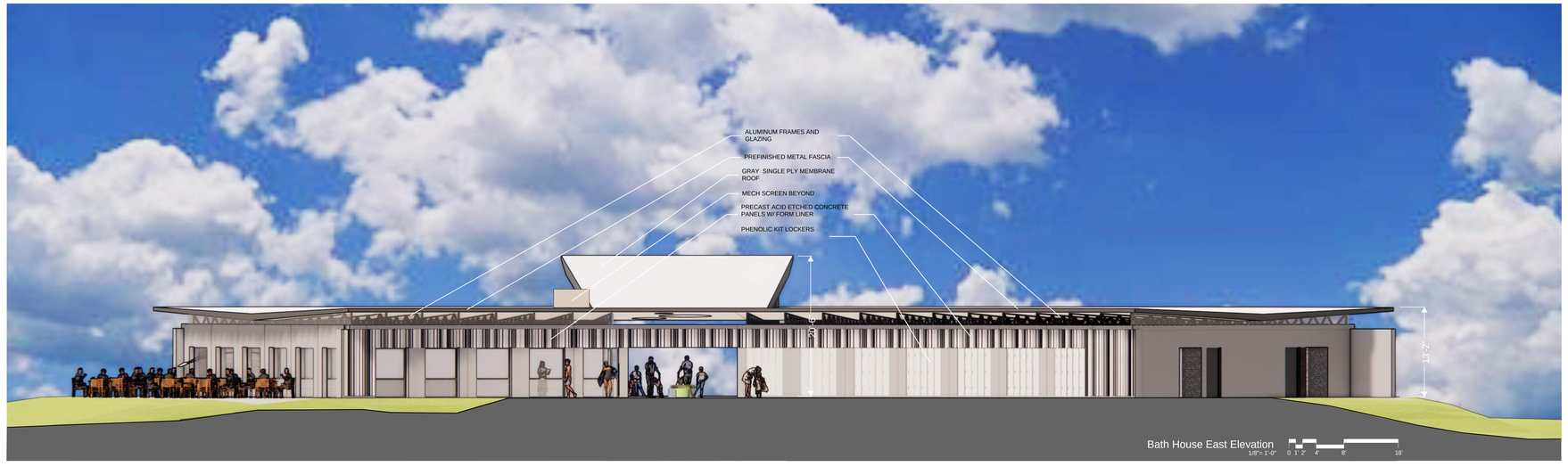
File Location: G:\95050\987 151 Wheeling PD Aquatic Cntr\Drainage\987 151 DRAINAGE EXHIBIT / SAVE DATE: 2/26/2026 11:29 AM BY: pwroblek / PLOT DATE: 2/26/2026 3:51 PM BY: Brian Spencer









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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

RENDERED ELEVATIONS - BATHHOUSE & CONCESSIONS

A-203

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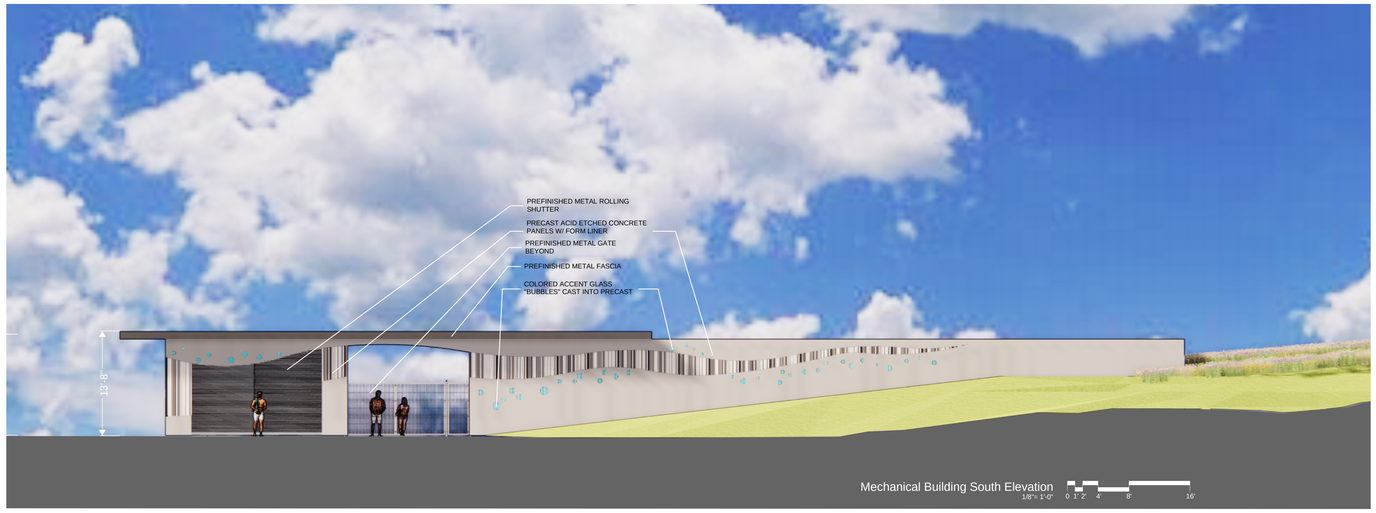

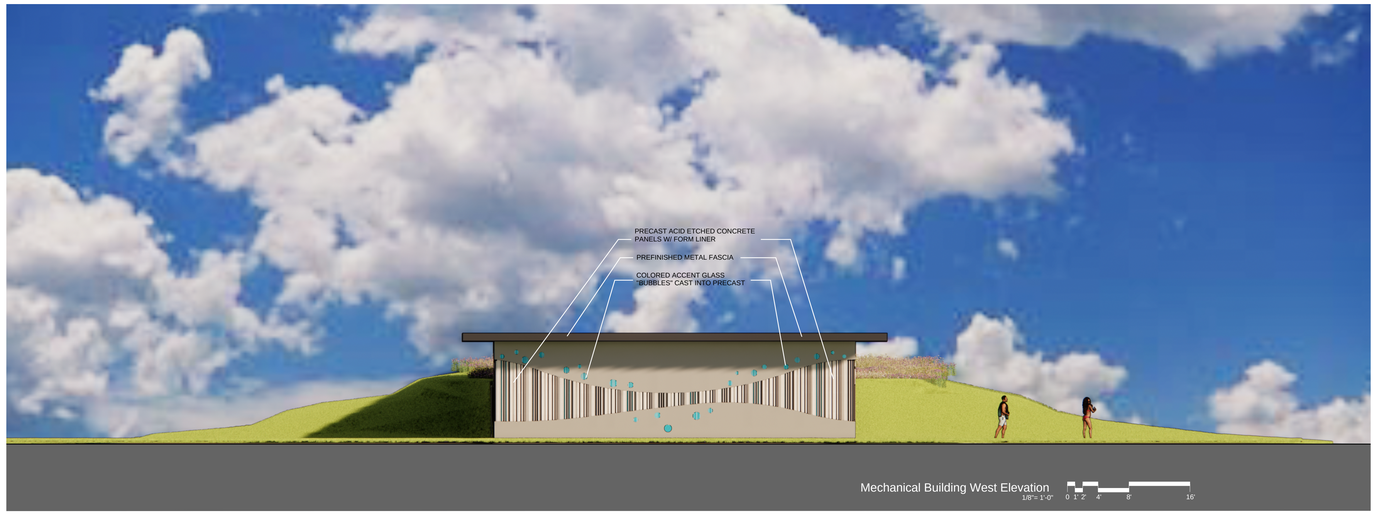



Note: The majority of the east building elevation is hidden by a berm and landscaping.

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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

RENDERED BUILDING ELEVATIONS - MECHANICAL BUILDING

A-204

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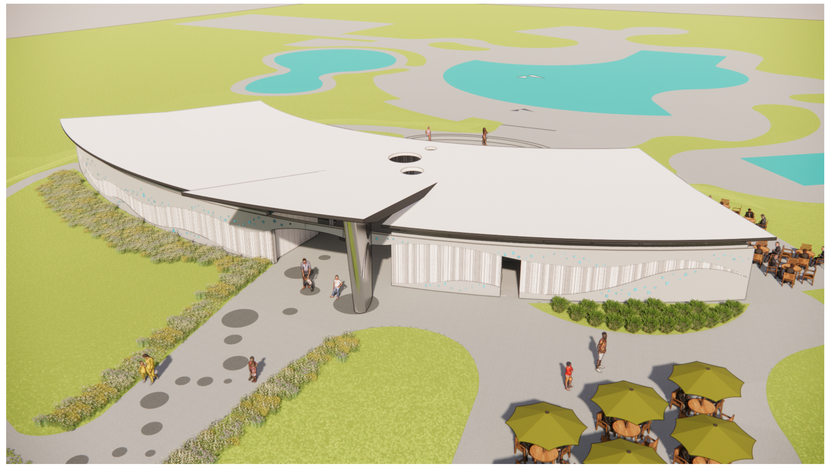
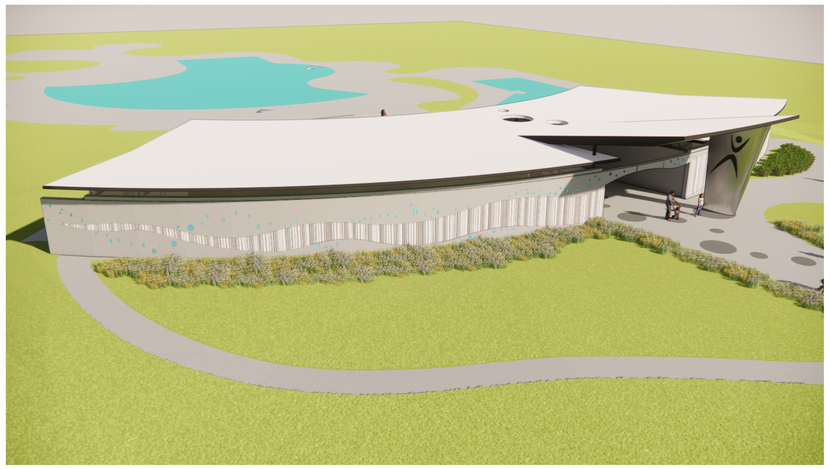
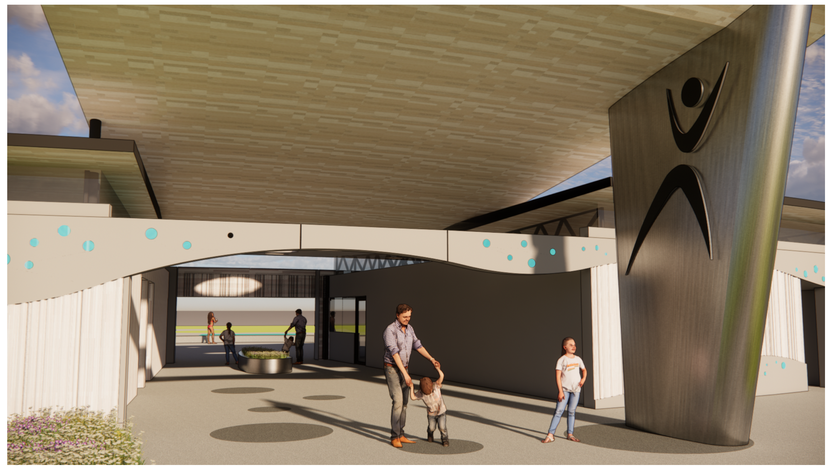


PERSPECTIVE - ENTRY BUILDING - SOUTHWEST
1/4" = 1'-0"



PERSPECTIVE - ENTRY BUILDING - NORTHWEST
1/4" = 1'-0"



PERSPECTIVE - MAIN ENTRANCE
1/4" = 1'-0"



PERSPECTIVE - ENTRY BUILDING - NORTH
1/4" = 1'-0"



PERSPECTIVE - ENTRY BUILDING - WEST
1/4" = 1'-0"

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920.887.7375

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No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

RENDERINGS - BATHHOUSE & CONCESSIONS

A-901

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PERSPECTIVE - CONCESSIONS - PERGOLA - SOUTHWEST
1/4" = 1'-0"



PERSPECTIVE - CONCESSIONS - PERGOLA - SOUTHEAST
1/4" = 1'-0"



PERSPECTIVE - CONCESSIONS - PERGOLA - SOUTH
1/4" = 1'-0"

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Key Plan

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105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

RENDERINGS - PERGOLA ALTERNATE

A-901a

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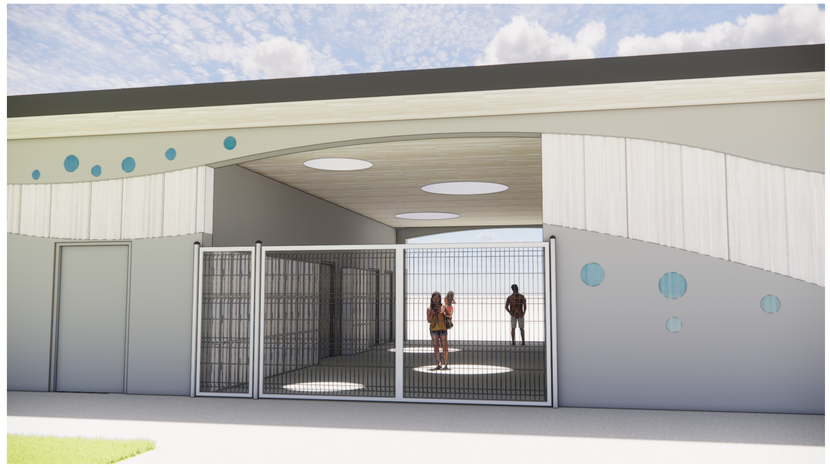

PERSPECTIVE - MECHANICAL BUILDING - ACCESS
1/4" = 1'-0"



PERSPECTIVE - MECHANICAL BUILDING - NORTHWEST
1/4" = 1'-0"



PERSPECTIVE - MECHANICAL BUILDING - SOUTHWEST
1/4" = 1'-0"

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No.	Date	Description
1	02-20-2026	MAJOR SITE PLAN RESUBMITTAL 01

Key Plan

WHEELING AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	225093.00
Issue	Major Site Plan Submittal
Date	1/30/2026

RENDERINGS -
MECHANICAL BUILDING

A-902

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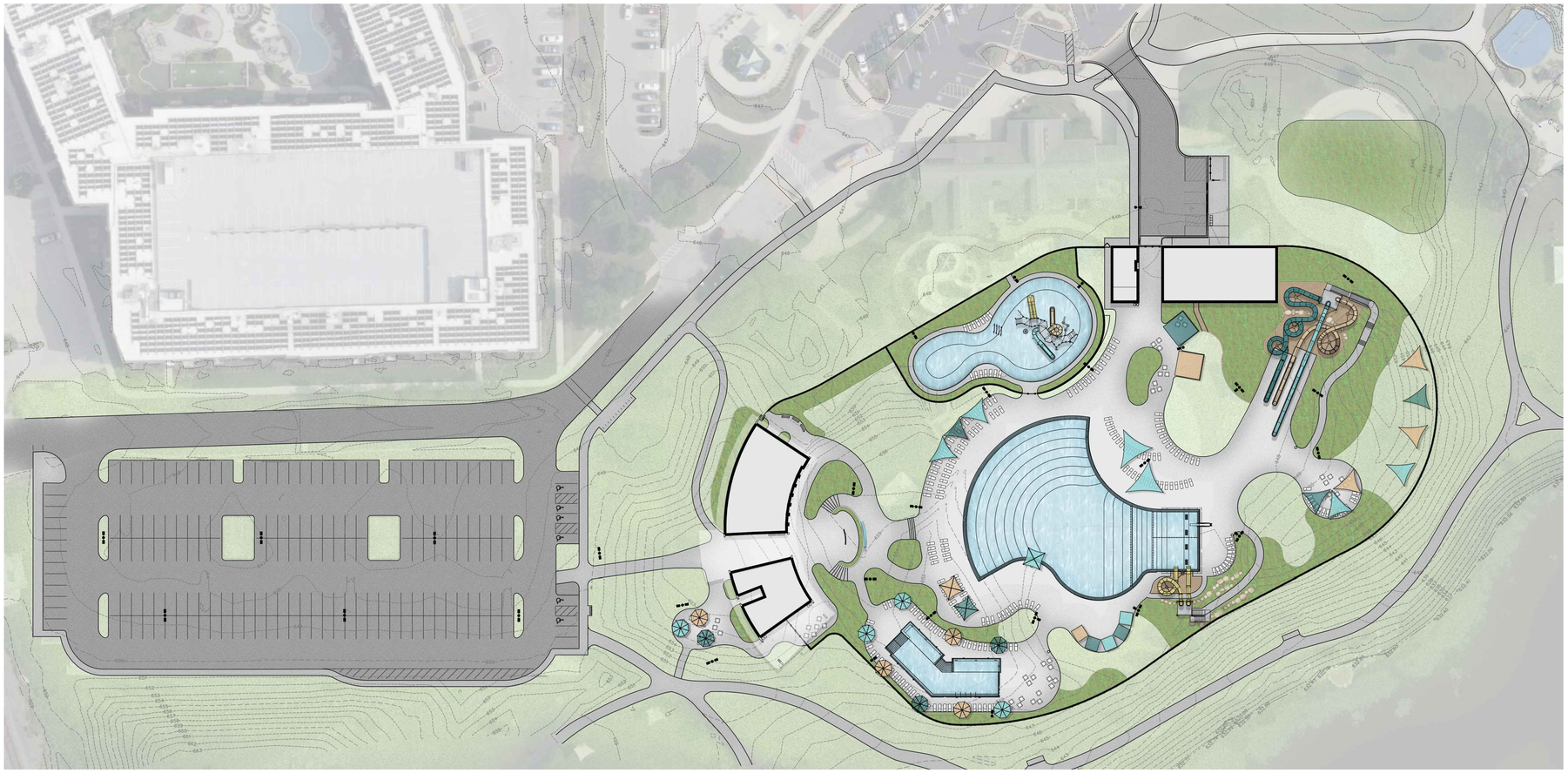
WHEELING PARK DISTRICT AQUATICS CENTER

WHEELING PARK DISTRICT

105 COMMUNITY BLVD
Wheeling, IL



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PH: (920) 592-9402
BEAU SANDERS

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SHEETS COVERED BY SEAL: "PL"

AQUATIC DESIGN
WATER TECHNOLOGY INC (WTI)
100 PARK AVENUE
BEAVER DAM, WI 53916
PH: (920) 887-7375
BRIAN FREBER

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ELECTRICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
PAUL SILIUNAS

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REGISTRATION ISSUANCE DATE:
SHEETS COVERED BY SEAL: "E"

PLUMBING & MECHANICAL ENGINEER
IMEG
263 SHUMAN BLVD
NAPERVILLE, IL 60593
PH: (630) 527-2320
RYAN SPAULDING

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STRUCTURAL ENGINEER
McCLUSKEY ENGINEERING
1887 HIGH GROVE LN
NAPERVILLE, IL 60540
PH: (630) 717-5395
ANDREW ECK

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CHICAGO, IL 60601
PH: (312) 258-9595
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VERNON HILLS, IL 60061
PH: (847) 478-9700
DON MATTHEWS

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REGISTRATION ISSUANCE DATE: FEB 9, 1993
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CONFLUENCE
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CHICAGO, ILLINOIS 60654
PH: (312) 663-5494
TERRY BERKBUEGLER

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REGISTRATION ISSUANCE DATE: JULY 2, 2024
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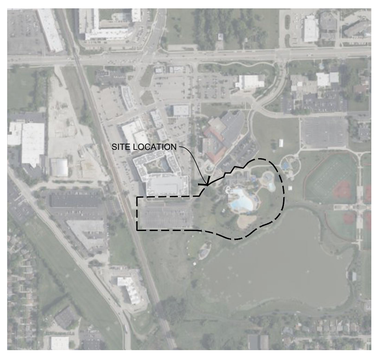
SHEET INDEX

SHEET NO.	SHEET TITLE
G100	COVER SHEET
	LANDSCAPE SHEETS
L100	GENERAL NOTES
L110	POOL DECK EGRESS PLAN
L200	TREE MITIGATION PLAN
L201	TREE MITIGATION PLAN
L202	TREE MITIGATION PLAN
L300	HARDSCAPE PLAN
L301	HARDSCAPE PLAN
L302	HARDSCAPE PLAN
L500	PLANTING PLAN
L501	PLANTING PLAN
L502	PLANTING PLAN
L503	PLANTING PLAN
L510	IRRIGATION PLAN
L511	IRRIGATION PLAN
L512	IRRIGATION PLAN
L700	SITE DETAILS
L701	SITE DETAILS
L800	PLANTING DETAILS

VICINITY MAP



ISSUED FOR MAJOR SITE PLAN RESUBMITTAL #1

MAR 5, 2026

811 Know what's below. Call before you dig.

COVER SHEET

CONFLUENCE PROJECT # 25070

G000

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GENERAL NOTES

A. THE CONTRACTOR SHALL NOTIFY THE 811 ONE CALL CENTER TO REQUEST THE LOCATION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES NOT COVERED BY 811 ONE CALL. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

B. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONDITIONS, IMPROVEMENTS, VEGETATION AND UTILITIES TO REMAIN. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.

C. THE CONTRACTOR SHALL CONSTRUCT ALL ITEMS WITHIN THIS CONTRACT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, REGULATIONS AND ENGINEERING STANDARDS. CONTRACTOR TO COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY OR STREETS WITH THE APPROPRIATE JURISDICTIONS.

D. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

DEMOLITION GENERAL NOTES

A. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANIES REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DAMAGE TO EXISTING UTILITIES PRIOR TO REPAIR. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER OF THE UTILITY.

B. FIELD VERIFY EXISTING GRADES AND LOCATIONS OF EXISTING UTILITIES, CONDUIT, LINES, POLES, TREES, PAVING, BUILDING AND OTHER SITE STRUCTURES PRIOR TO DEMOLITION OR CONSTRUCTION AND IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. THE CONTRACTOR SHALL REPORT TO THE OWNER ANY DAMAGE TO OWNER'S PROPERTY PRIOR TO REPAIR.

C. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

D. CONTACT THE LANDSCAPE ARCHITECT PRIOR TO REMOVING ANY PLANT MATERIAL NOT INDICATED TO BE PROTECTED OR REMOVED.

E. CONTRACTOR TO PROVIDE ADEQUATE BARRICADES AND TRAFFIC CONTROL. COMPLY WITH REQUIREMENTS OF LOCAL JURISDICTION.

F. CONTRACTOR SHALL SAW CUT ALL ASPHALT OR CONCRETE TO BE REMOVED TO THE NEAREST CONTROL JOINT WHERE PRACTICAL.

G. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

UTILITY GENERAL NOTES

A. DEWATERING (IF REQUIRED) IS CONSIDERED AN INCIDENTAL EXPENSE. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEWATERING.

B. COORDINATE INSPECTIONS FOR CONNECTIONS TO PUBLIC WATER, SANITARY, AND STORM SEWER WITH THE APPROPRIATE JURISDICTIONS.

C. INSTALL TEMPORARY INLET PROTECTION AROUND ALL PERMANENT STORM SEWER INLETS IN COMPLIANCE WITH LOCAL SWPPP REQUIREMENTS.

D. CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISH GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES AND LIGHT BASES.

E. FOR PATCHING USE PAVEMENT MIX PER VILLAGE OF WHEELING STANDARD SPECIFICATIONS.

ABBREVIATIONS

(ALL MIGHT NOT BE USED)

A	
ABRV	ABBREVIATION
ALN	ALIGN
ALW	ALLOWANCE
APPROX	APPROXIMATE
ARCH	ARCHITECT
AVE	AVERAGE
B	
B&B	BALLED AND BURLAPPED
BC	BOTTOM OF CURB
BLDG	BUILDING
BOC	BACK OF CURB
BOF	BOTTOM OF FOOTING
BW	BOTTOM OF WALL (@ FS)
BWS	BOTH WAYS
C	
CAL	CALIPER
CF	CUBIC FEET
CIP	CAST IN PLACE
CL	CENTER LINE
CLR	CLEAR
CO	CLEANOUT
CONT	CONTINUOUS
CY	CUBIC YARD
D	
DBH	DIA AT BREAST HT
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
DWG	DRAWING
E	
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ENG	ENGINEER
EQ	EQUAL
EST	ESTIMATE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
F	
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEV
FG	FINISHED GRADE
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISHED SURFACE
FT	FEET
FTG	FOOTING
G	
GA	GAUGE
GEN	GENERAL
H	
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDED
J	
JT	JOINT
K	
NONE	
L	
LF	LINEAR FEET
LP	LOW POINT
M	
MAX	MAXIMUM
MANU	MANUFACTURER
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
N	
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	
PC	POINT OF CURVE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PT	POINT
PVC	POLY VINYL CHLORIDE
Q	
QTY	QUANTITY
R	
R	RADIUS
REC	RECOMMENDATION
RE	REFERENCE
REINF	REINFORCE
R-EJ	REINFORCED EXPANSION JT
REQD	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
S	
S	SOUTH
SAN	SANITARY
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
ST	STORM SEWER
SY	SQUARE YARD
STA	STATION
STD	STANDARD
SYM	SYMMETRICAL
SQ	SQUARE
T	
T&B	TOP AND BOTTOM
TBD	TO BE DETERMINED
TC	TOP OF CURB
TD	TOP OF DRAIN
TH	THICK
TOF	TOP OF FOOTING
TOPO	TOPOGRAPHY
TW	TOP OF WALL
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VAR	VARIES
VOL	VOLUME
W	
W	WITH
W/O	WITHOUT
WT	WEIGHT
WWM	WELDED WIRE MESH
X	
NONE	
Y	
YD	YARD
Z	
NONE	

LINE SYMBOL LEGEND

- LIMIT OF WORK
- EASEMENT
- SETBACK
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- COMMUNICATIONS
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- SANITARY SEWER
- STORM SEWER
- UNDERDRAIN
- TELEPHONE
- WATER
- SILT FENCE
- FENCE, TYPE 1
- FENCE, TYPE 2
- FENCE, TYPE 3

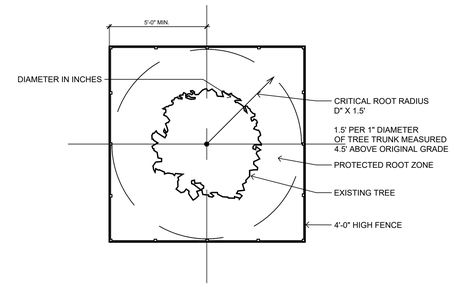
DRAWING SYMBOLS

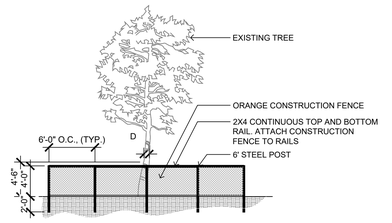
(NOT ALL ARE USED)

- SECTION
- ELEVATION
- TEXT MULTILEADER (MULTILEADER STD.)
- GRADING MULTILEADER (XX ###.#)
- DETAIL MULTILEADER (DETAIL NAME ## L-##)
- CONTOUR ELEVATION (###)
- CENTER POINTS
- SLOPE (#.#%)
- COORDINATE TAGS (N.#### E.####)
- ELEVATION (XXXX.XX / X'XXXX)
- PLANT TAG (QTY ## / ABBREVIATION XX)
- KEYNOTE (#)
- DIMENSION (#'-##")
- RADIUS DIMENSION (R##)
- ANGLE DIMENSION (##°)
- REVISION TRIANGLE (ISSUE NO.)
- XX / L-XX
- XX / L-XX
- A
- ℄
- # SHEET TITLE N.T.S

SCALE: 1"=10'

0' 5' 10' 20'





1 / L100 TREE PROTECTION FENCE TYP NTS

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PRELIMINARY
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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

GENERAL NOTES

L100

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IF THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, IF THIS SHEET IS PRINTED AT FULL SCALE

THIS SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

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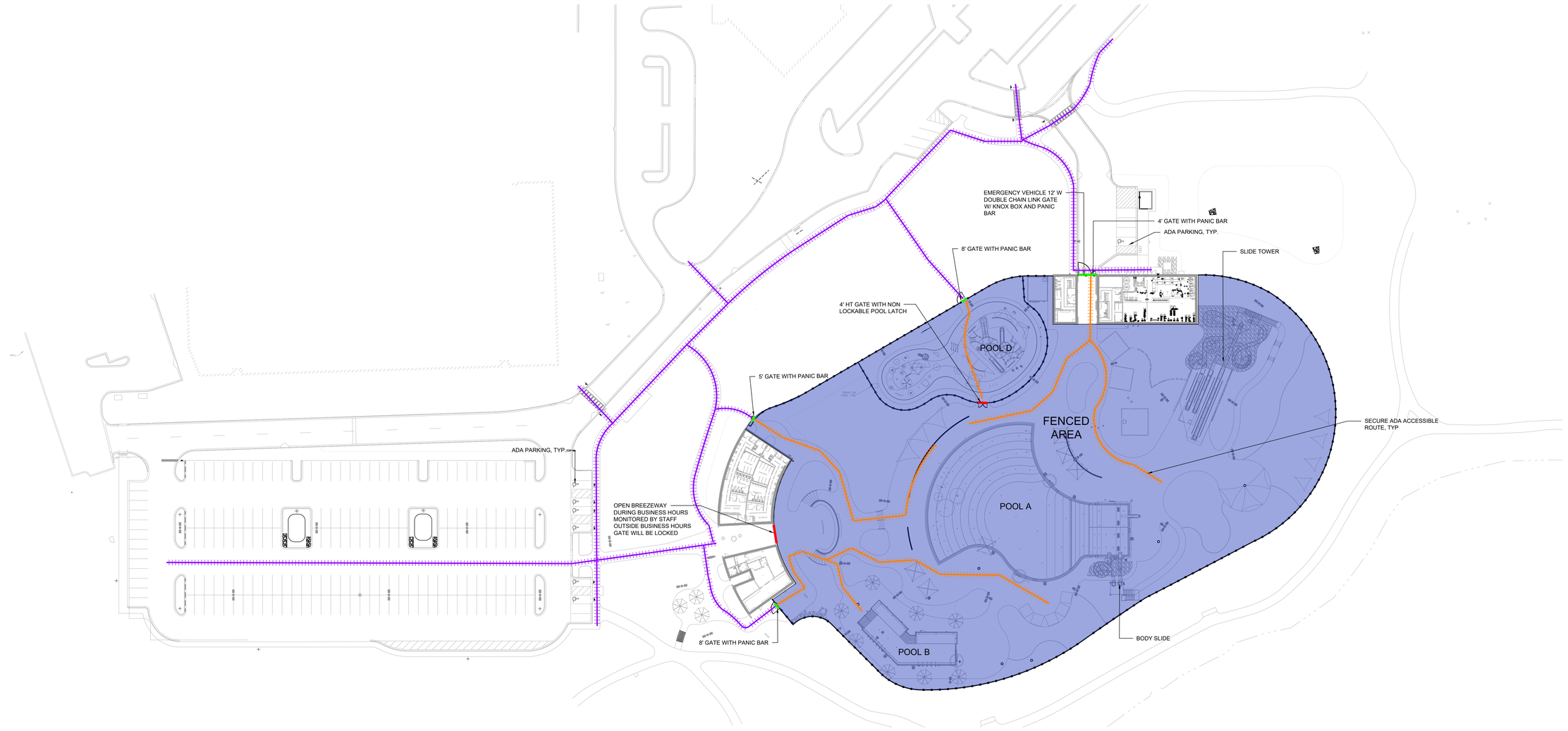

1 L110 POOL DECK EGRESS PLAN

0' 20' 40' 80'

POOL DECK LEGEND

- LOCK GATE
- PANIC GATE
- ROW PATH
- SECURE PATH

POOL DECK EGRESS CODE

A. THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.

B. KEY REQUIREMENTS FOR OUTDOOR POOL EGRESS

1. OCCUPANCY LOAD
   1.1. TOTAL BATHERS: 2,847.

2. NUMBER OF EXITS (GATES)
   2.1. BASED ON IBC TABLE 1006.3.3:
   2.2. FOR 2,847 BATHERS : MINIMUM 5 EXITS (GATES) REQUIRED.

3. EXIT WIDTH
   3.1. AREA A (2847 BATHERS): 2847 × 0.15 = 428 INCHES

4. TRAVEL DISTANCE TO EXITS
   4.1. MAXIMUM TRAVEL DISTANCE:
      4.1.1. 200 FEET IF UNSPRINKLERED.
      4.1.2. 250 FEET IF SPRINKLERED.

5. GATE FEATURES
   5.1. ALL GATES MUST:
      5.1.1. SWING OUTWARD IN THE DIRECTION OF EGRESS.
      5.1.2. BE EQUIPPED WITH PANIC HARDWARE FOR QUICK EXIT.
      5.1.3. BE ADA-COMPLIANT:
         5.1.3.1. MINIMUM WIDTH: 36 INCHES PER GATE.
         5.1.3.2. OPERABLE PARTS MUST NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING.

B. SUMMARY FOR WHEELING PARKS DISTRICT PROJECT:

1. AREA A (2847 BATHERS):
NUMBER OF GATES: 5 GATES; 1 144 IN. WIDE, 2 96 IN. WIDE, 1 60 IN. WIDE, 1 48 INCHES WIDE.

2. ALL CHAIN LINK GATES WILL BE 6' HT WITH PANIC, SWINGING OUT

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VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

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POOL DECK EGRESS PLAN

L110

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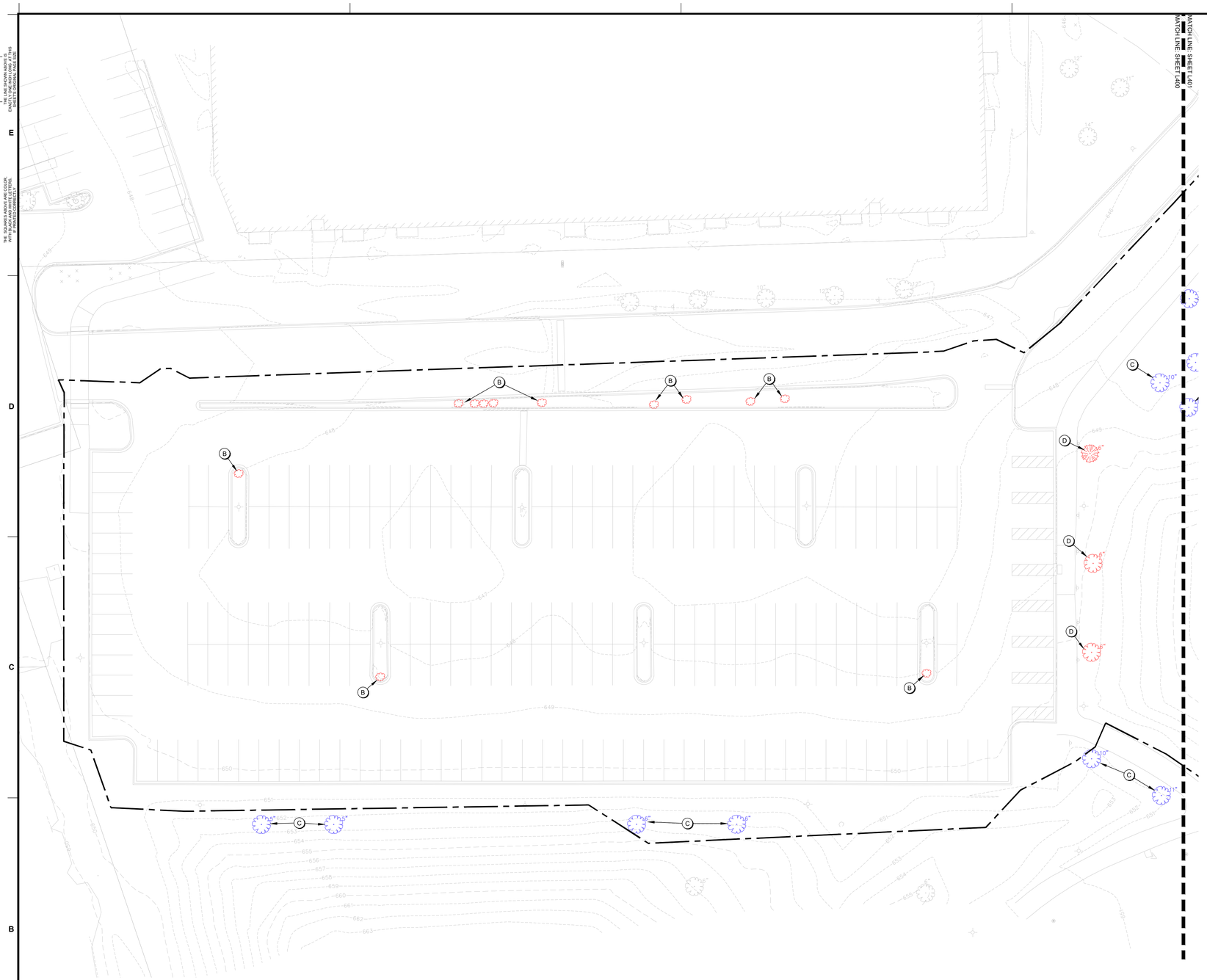

1 L200 TREE MITIGATION PLAN - AREA A

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L200 SHEET LOCATION KEY

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Project Number	25070
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Date	2026-03-05

TREE MITIGATION PLAN

L200

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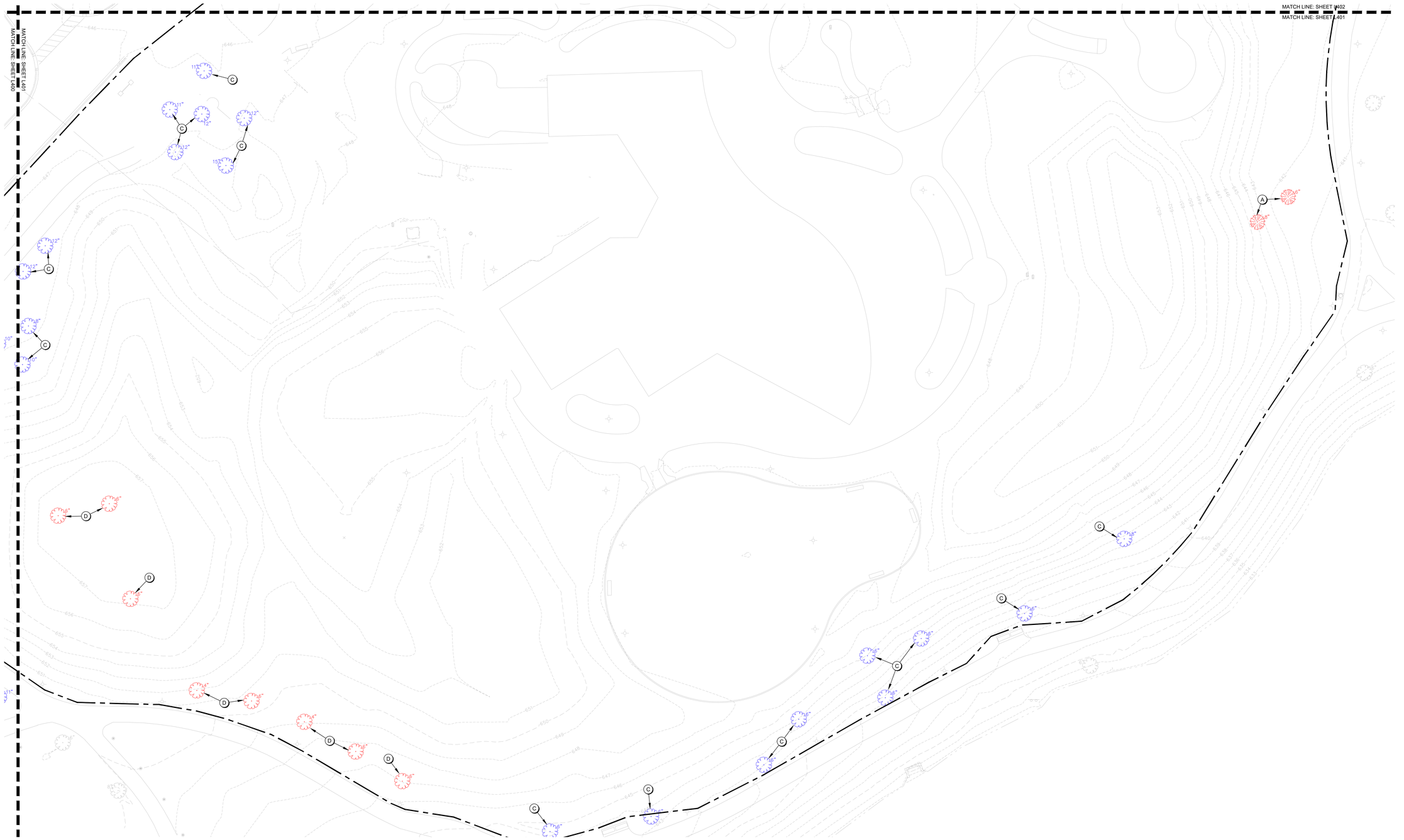

1 L201 TREE MITIGATION PLAN - AREA B

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L201 SHEET LOCATION KEY

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TREE MITIGATION PLAN

L201

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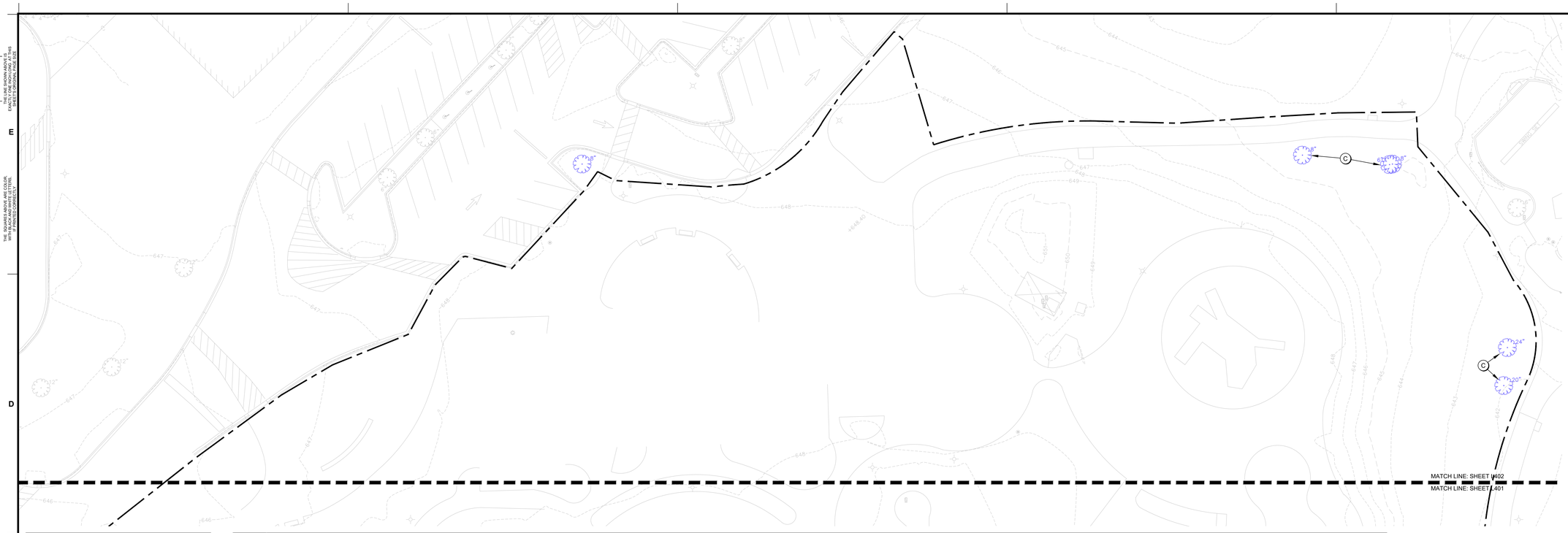

1 L202 TREE MITIGATION PLAN - AREA C

0' 10' 20' 40'

KEYNOTES

A) TREE TO BE REMOVED
B) SHRUB TO BE REMOVED
C) TREE TO BE PROTECTED: RE; 1/L100
D) TREE TO BE TRANSPLANTED: RE; PLANTING PLAN



L202 SHEET LOCATION KEY

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TREE MITIGATION PLAN

L202

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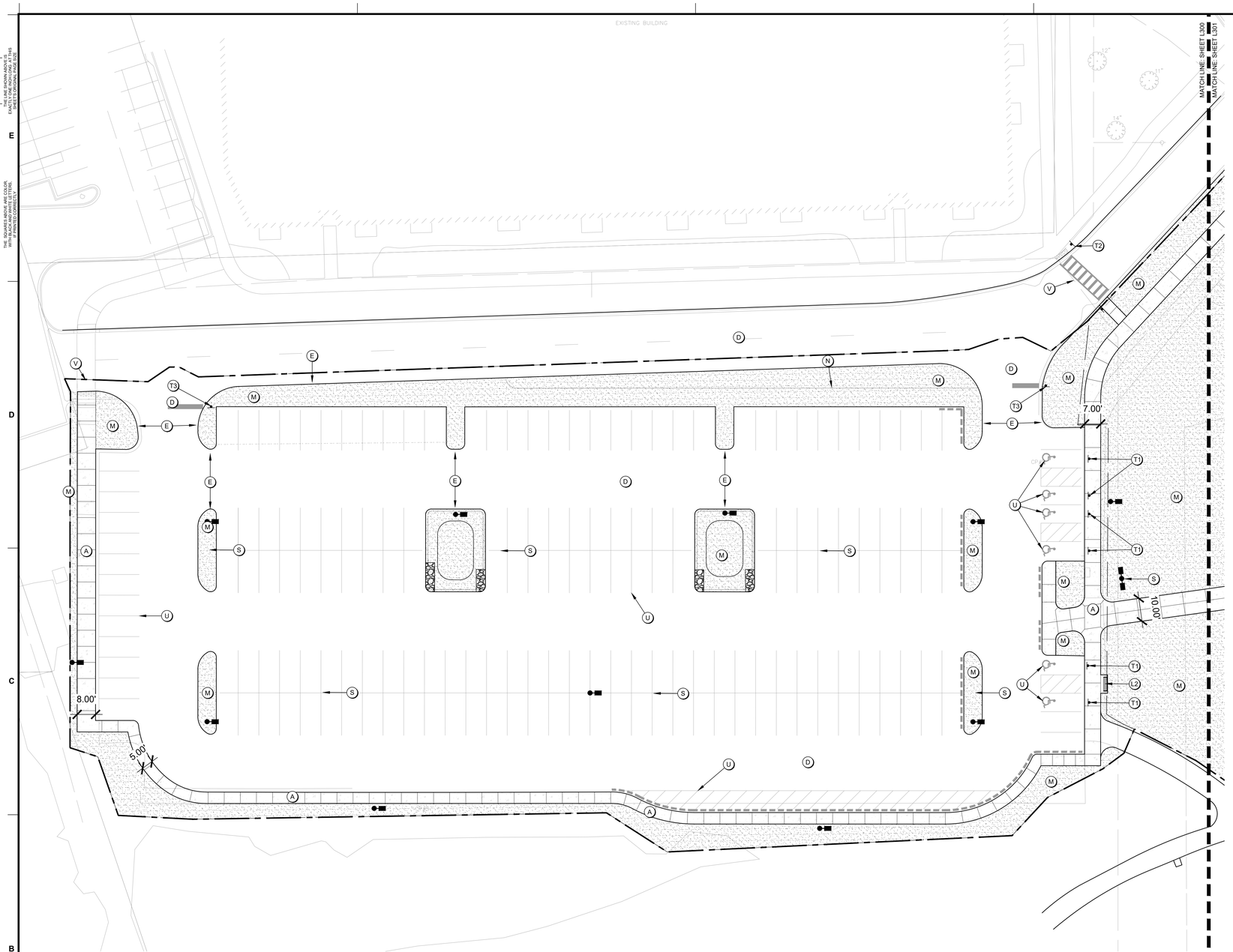

1 L300 HARDSCAPE PLAN - AREA A

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
Z) LANDSCAPE BED EDGE TYPE 2; RE: 14/L701
AA) YARD HYDRANT; RE: 15/L701

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

RAILING, FENCE, AND GATES; SCHEDULE A

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ, SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L300 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
Chicago, IL 60601
312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES
625 Forest Edge Drive
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847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L300

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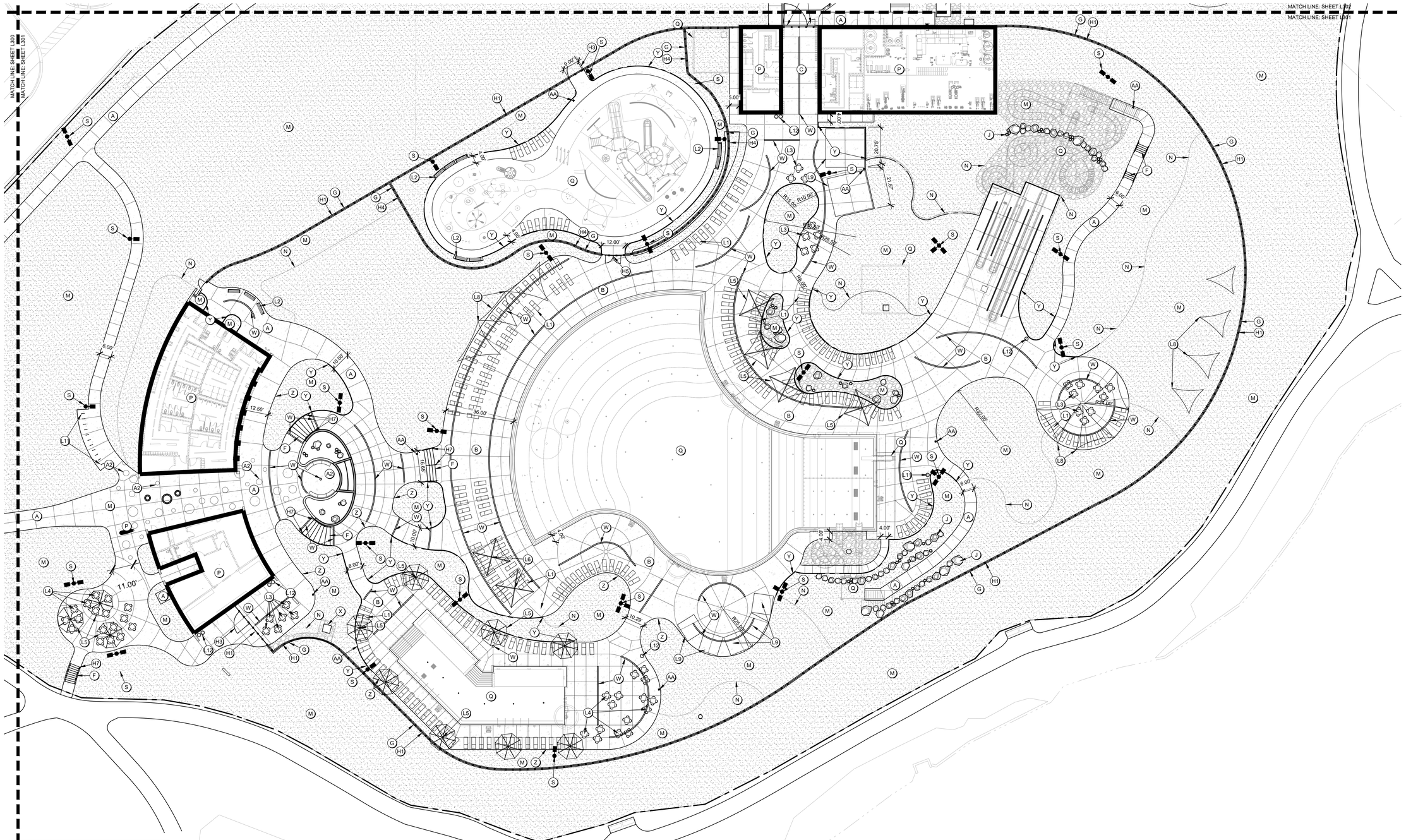
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL PAPER SIZE

THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, WITH A WHITE BACKGROUND

File Location: T:\Projects\2025\25070_wheeling family aquatic (village of wheeling, p)\03 working\10 outcost\200 sheet set manager\SHEETS\L300 Hardscape Plan / SAVE DATE: 3/27/2026 12:48 PM BY: .mmiller / PLOT DATE: 3/27/2026 12:53 PM BY: Anaya Marshall



KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS
Y) LANDSCAPE BED EDGE TYPE 1; RE: 13/L701
Z) LANDSCAPE BED EDGE TYPE 2; RE: 14/L701
AA) YARD HYDRANT; RE: 15/L701

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

1 L301 HARDSCAPE PLAN - AREA B

0' 10' 20' 40'

RAILING, FENCE, AND GATES; SCHEDULE A

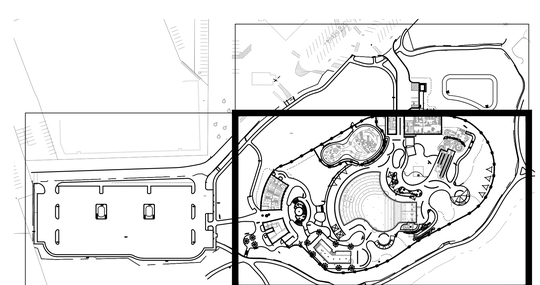
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ. SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L301 SHEET LOCATION KEY

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Revision Schedule

No.	Date	Description
1	01-30-2026	MAJOR SITE PLAN SUBMITTAL
2	02-20-2026	MAJOR SITE PLAN RESUBMITTAL #1
3	03-27-2026	MAJOR SITE PLAN RESUBMITTAL #2

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #2
Date	2026-03-27

HARDSCAPE PLAN

L301

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SIZE

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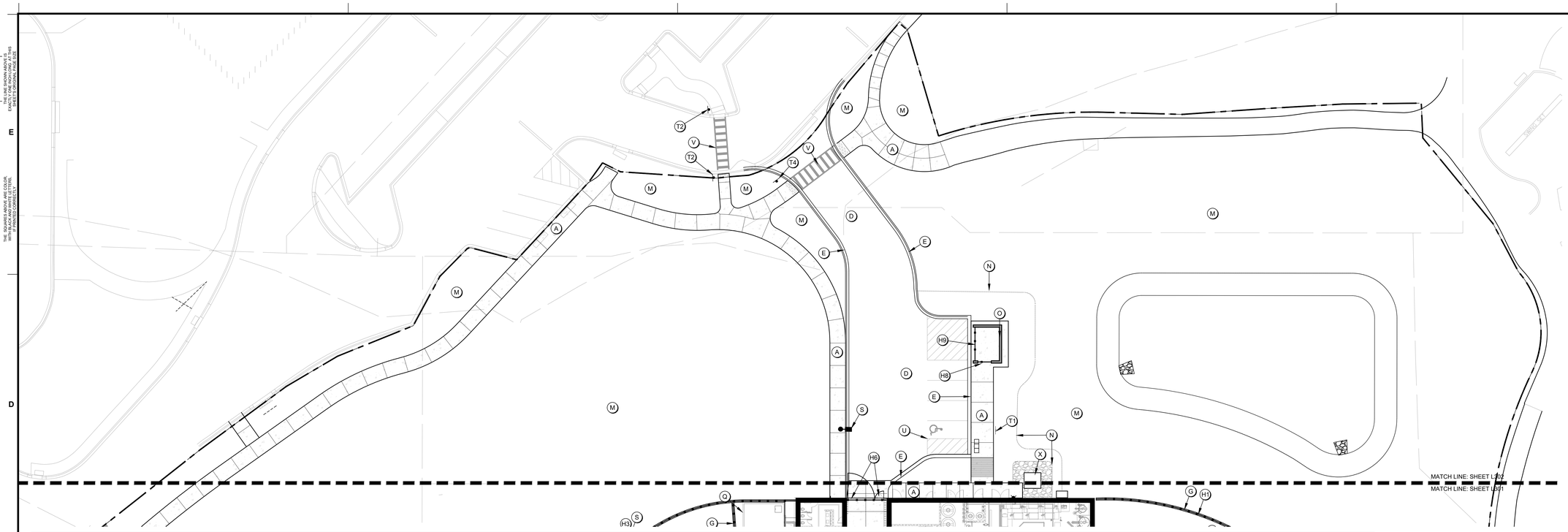
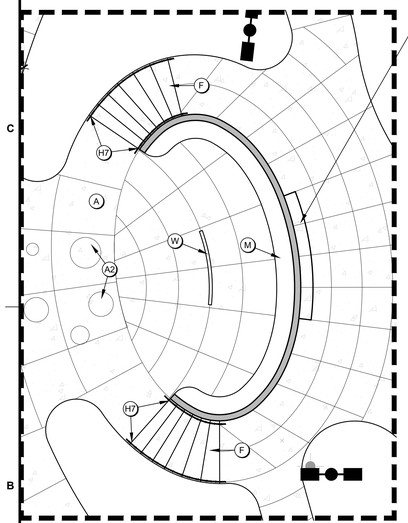


1 L302 HARDSCAPE PLAN - AREA C



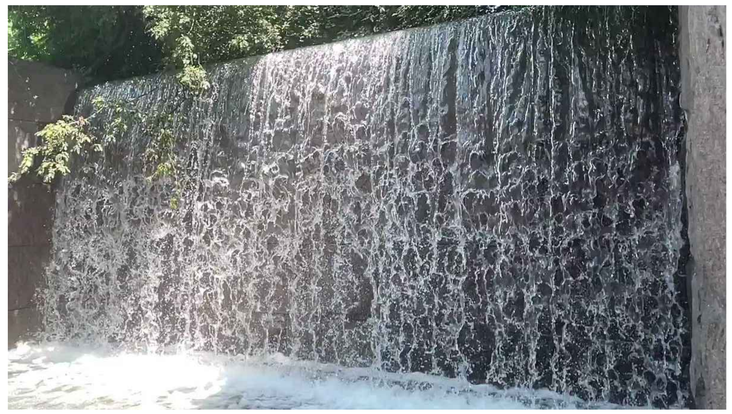
WATER FEATURE/FOUNTAIN. THE APPROXIMATELY 3 FOOT TALL WALL SHALL BE CONSTRUCTED OF REINFORCED CONCRETE OR CMU WITH A FINISHED FACE OF STONE VENEER, OR AS INDICATED IN THE DRAWINGS. A CONCEALED WEIR SYSTEM SHALL BE PROVIDED AT THE TOP OF WALL TO DISTRIBUTE WATER EVENLY ACROSS THE FULL WIDTH AS INDICATED IN THE DRAWINGS, CREATING A UNIFORM, UNINTERRUPTED CURTAIN OF WATER FLOWING DOWN THE VERTICAL SURFACE INTO A RECEIVING BASIN OR POOL BELOW. THE CONTRACTOR SHALL PROVIDE A COMPLETE RECIRCULATING SYSTEM, INCLUDING PUMPS, FILTRATION, PIPING, VALVES, AND CONTROLS, SIZED TO ACHIEVE CONSISTENT FLOW WITHOUT STREAKING OR DRY AREAS. THE WALL SURFACE SHALL BE TRUE, SMOOTH, AND FREE OF IRREGULARITIES THAT WOULD DISRUPT WATER FLOW. ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, DURABLE, AND MAINTAINABLE SYSTEM SHALL BE INCLUDED, COORDINATED WITH STRUCTURAL, ELECTRICAL AND POOL SYSTEMS, AND INSTALLED IN ACCORDANCE WITH THIS DESIGN INTENT.

2 L302 HARDSCAPE PLAN - OVERLOOK ENLARGEMENT

0' 5' 10' 20'



3 L302 WATER FEATURE CONCEPT RENDERING EXAMPLE



4 L302 WATER FEATURE CONCEPT REFERENCE EXAMPLE

KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/L700
A2) PAVING TYPE 1B (SIDEWALK); RE: 1/L700
B) PAVING TYPE 2 (POOL DECK); RE: 2/L700
C) PAVING TYPE 3 (REINFORCED); RE: 3L/700
D) ASPHALT PAVING; RE: CIVIL SHEETS
E) CONCRETE CURB; RE: CIVIL SHEETS
F) CONCRETE STAIRS; RE: 5/L700
G) CONCRETE MOW STRIP; RE: 4/L700
H) FENCING; RE: RAILING, FENCE, & GATES SCHEDULE A
I) RETAINING WALL; RE: 9/L701
J) BOULDER WALL; RE: 10/L701
K) SEAT WALL; RE: 11/L701
L) SITE FURNITURE; RE: FURNISHINGS SCHEDULE B
M) LANDSCAPING; RE: PLANTING SHEETS
N) STEEL EDGING; RE: 4/L800
O) TRASH ENCLOSURE; RE: 11/L700
P) BUILDINGS; RE: ARCHITECTURE SHEETS
Q) POOL/AQUATICS; RE: AQUATICS SHEETS
R) WET DECK AREA; RE: AQUATICS SHEETS
S) LIGHT FIXTURES; RE: ELECTRICAL SHEETS
T) SIGNS; RE: SCHEDULE C
U) STRIPING AND SYMBOLS; RE: SPECS
V) RAMPS AND CROSSWALK; RE: CIVIL SHEETS
W) TRENCH DRAIN; RE: 12/L701
X) MECHANICAL UNIT PAD; RE: MECHANICAL SHEETS

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

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E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

RAILING, FENCE, AND GATES; SCHEDULE A

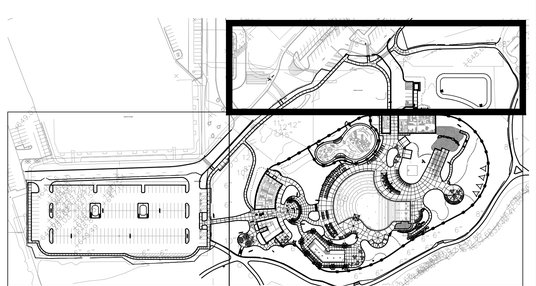
KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
H1	1,160 LF	CHAINLINK FENCE	TBD	6' HT, VINYL COATED	BLACK	EMBED	1/L701
H2	1	CHAINLINK FENCE GATE 5'	TBD	6' HT X 5' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H3	1	CHAINLINK FENCE GATE 8'	TBD	6' HT X 8' W, VINYL COATED	BROWN STAIN	EMBED	2/L701
H4	300 LF	PICKET FENCE	TBD	4' HT	BLACK	EMBED	5/L701
H5	1	PICKET FENCE GATE 7'	TBD	4' HT X 7' W, VINYL COATED	BLACK	EMBED	6/L701
H6	1	PICKET FENCE GATE 16'	TBD	4' HT X 16' W, VINYL COATED	BLACK	EMBED	7/L701
H7	9	STAIR RAILING	TBD		BLACK	EMBED	5/L700
H8	1	TRASH ENCLOSURE GATE 4'	TBD	6'-2" HT X 4' W, COMPOSITE	TBD	EMBED	13/L700
H9	1	TRASH ENCLOSURE GATE 15.5'	TBD	6'-2" HT X 15.5' W, COMPOSITE	TBD	EMBED	13/L700

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURER	MODEL	OPTIONS	COLOR	MOUNTING
L1	226	CHAISE LOUNGE	POLYWOOD	NAUTICAL CHAISE		TBD	NONE
L2	11	BENCH	DUMOR	BENCH 165		TBD	SURFACE MOUNT
L3	24	PICNIC TABLE	ANOVA	ROUND STEEL TABLE	EXTENDED BENCH	TBD	SURFACE MOUNT
L4	32	TABLE & CHAIRS	ANOVA	AIRI ROUND BISTRO		TBD	NONE
L5	11	UMBRELLA SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L6	2	UMBRELLA SQ. SINGLE POST	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L7	4	UMBRELLA, CANTILEVER,	SHADE SYSTEMS	SINGLE POST	14' x 14'	TBD	FOOTING
L8	8	TRIANGLE SHADE STRUCTURE	SHADE SYSTEMS	SHADE SAILS	16' & 22'	TBD	FOOTING
L9	2	SHADE STRUCTURE, 20' SQ	SHADE SYSTEMS	MEGA STRUCTURES	20' x 20'	TBD	FOOTING
L10	5	CABANA	RESORT CABANAS	CANCUN	10' x 10'	TBD	SURFACE MOUNT
L11	12	BIKE RACK	DUMOR	BIKE RACK 292		TBD	SURFACE MOUNT
L12	5	TRASH RECEPTACLE	DUMOR	RECEPTACLE 502		TBD	SURFACE MOUNT

SIGNS; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
T1	SEE CIVIL	ADA PARKING	3/L700
T2	SEE CIVIL	YIELD SIGN	3/L700
T3	SEE CIVIL	STOP SIGN	3/L700
T4	SEE CIVIL	DO NOT ENTER SIGN	3/L700



L302 SHEET LOCATION KEY

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
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312.663.5494
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ARCHITECT
LEGAT ARCHITECTS
49 West Randolph Street
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847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

CONSTRUCTION MANAGER
CAMOSY CONSTRUCTION
43451 N. US Hwy.
Zion, IL 60099
847.478.9700

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

HARDSCAPE PLAN

L302

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SIZE

THE SQUARES ABOVE ARE SOLID COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

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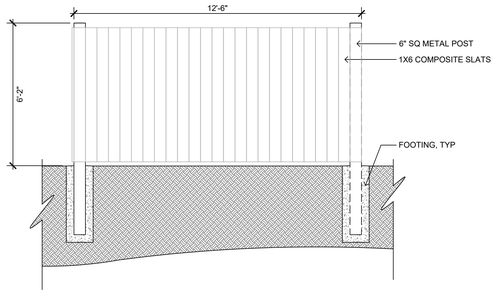
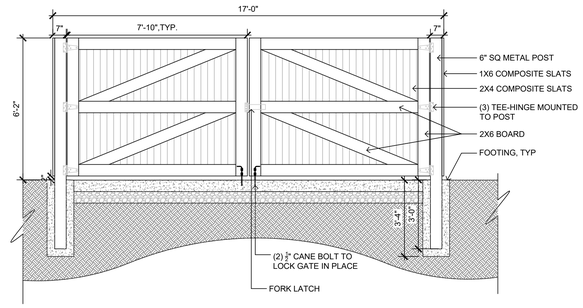
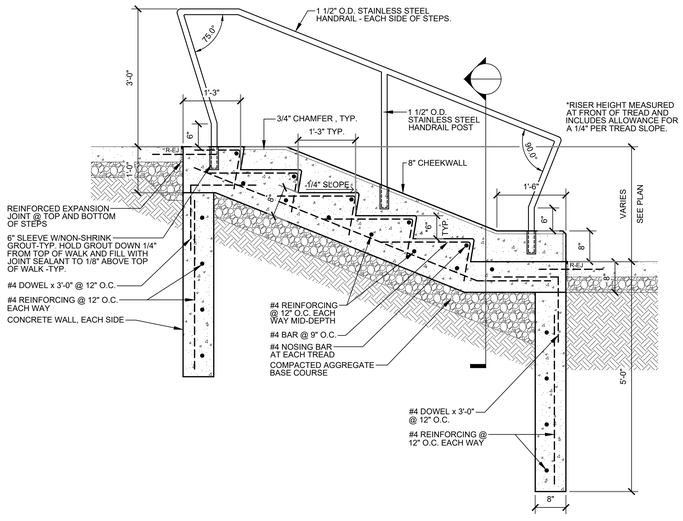
C M Y K
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY



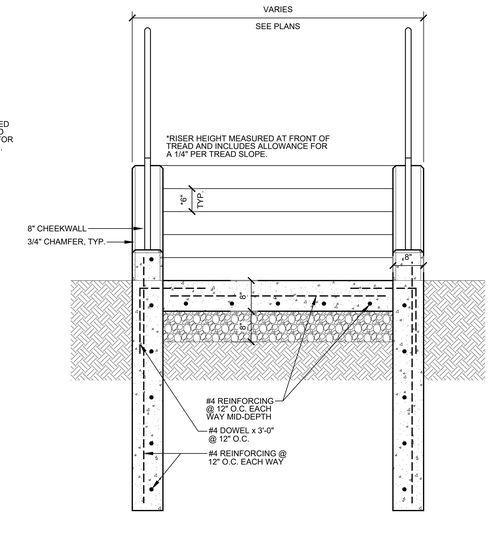
14 L700 TRASH ENCLOSURE SIDE SECTION — SCALE: 3/8" = 1'-0"



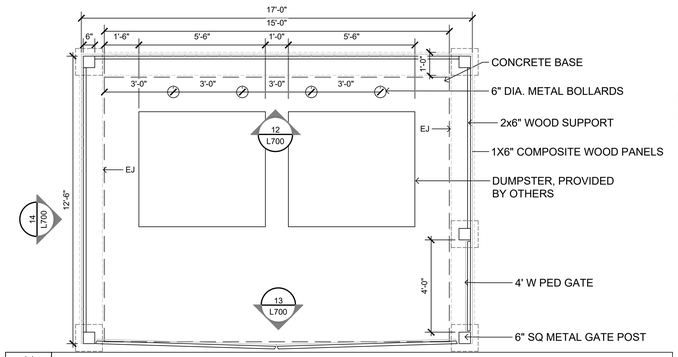
13 L700 TRASH ENCLOSURE GATES — SCALE: 3/8" = 1'-0"



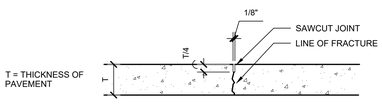
5 L700 CONCRETE STAIRS — SCALE: 3/4" = 1'-0"



12 L700 TRASH ENCLOSURE — SCALE: 3/8" = 1'-0"

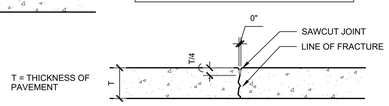


11 L700 TRASH ENCLOSURE LAYOUT — SCALE: 3/8" = 1'-0"



SAWCUT CONTROL JOINT

TOOLED JOINTS SHALL BE CONSTRUCTED AT A MINIMUM DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND INSURE A FREE MOVEMENT OF CONCRETE AT THE JOINT.



TOOLED CONTROL JOINT

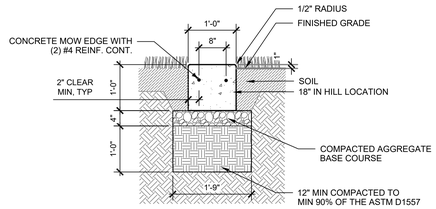
10 L700 CONTROL JOINT TYP — N.T.S

PLACE ISOLATION JOINTS BETWEEN CONCRETE AND BUILDING FOUNDATION AND ALL FIXED OBJECTS

9 L700 ISO JOINT TYP — N.T.S

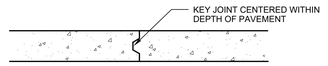
1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED TRANSVERSELY ALONG THE CURB EVERY 40'.

CONTROL JOINTS SHALL BE PLACED 10'-0" O.C. MAX.



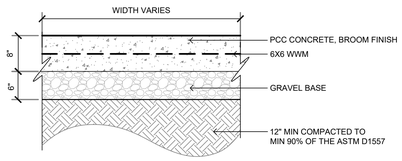
4 L700 CONCRETE MOW STRIP TYP — SCALE: 3/4" = 1'-0"

CONSTRUCTION JOINTS SHALL BE PLACED BETWEEN INDIVIDUAL POURS OF CONCRETE WHERE EXPANSION JOINTS DO NOT OCCUR.



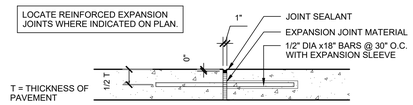
8 L700 CONSTRUCTION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



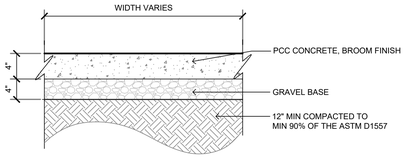
3 L700 PAVING TYPE 3 (REINF PPC) TYP — N.T.S

LOCATE REINFORCED EXPANSION JOINTS WHERE INDICATED ON PLAN.



7 L700 REINF. EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.
3. BROOM FINISH DYNAMIC COEFFICIENT OF FRICTION 0.6

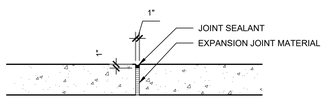


2 L700 PAVING TYPE 2 (POOL DECK) TYP — N.T.S

ALL EXPANSION JOINTS IN WALKS SHALL BE SEALED WITH A SELF LEVELING URETHANE JOINT SEALANT. ASTM C920 , MULTI-COMPONENT (M), GRADE P, CLASS 25, TRAFFIC (T) EXPOSURE. COLOR TO BE MANUFACTURERS STANDARD GRAY OR LIMESTONE.

CLEAN, PRIME, AND BACK JOINTS AS RECOMMENDED BY SEALANT MANUFACTURER. INSTALL IN ACCORDANCE WITH ASTM C1193.

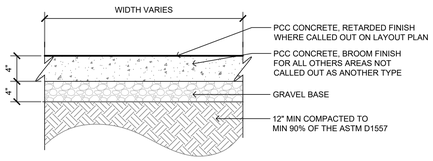
CLEAN OFF EXCESS SEALANT AND SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND MATERIALS APPROVED IN WRITING BY THE SEALANT MANUFACTURER.



SPACE EXPANSION JOINTS NOT TO EXCEED 35' IN CONCRETE WALKS AND WHERE INDICATED ON PLAN.

6 L700 EXPANSION JOINT TYP — N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



1 L700 PAVING TYPE 1 (SIDEWALK) TYP — N.T.S

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PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L700

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IF LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH LONG, ATTHIS DRAWING IS NOT AT THE CORRECT SCALE

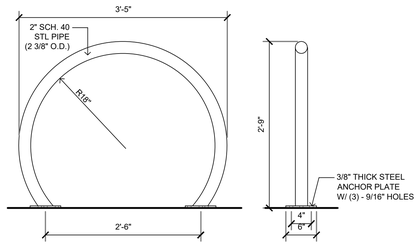
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ARE NOT CORRECTLY PRINTED



NOTES:
1. INSTALL PER MANUFACTURER SPECIFICATIONS
2. PRODUCT: NDS, SPEE-D CHANNEL DRAINS, 4" BOTTOM OUTLET AND DECORATIVE GRATES, COLOR TO BE DETERMINED
   GRAY CHANNEL, GRATE COLOR TO BE DETERMINED
3. MANUFACTURER:
   NDS
   NDSPRO.COM

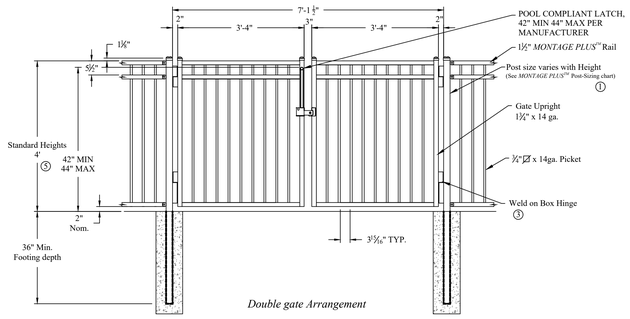
12 L701 TRENCH DRAIN

NTS



11 L701 BIKE RACK

SCALE: 1" = 1'-0"



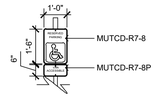
Double gate Arrangement

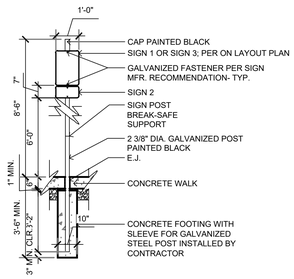
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

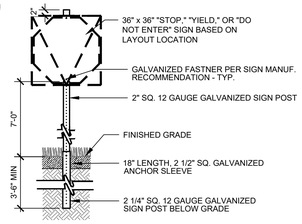
7 L701 GATE, DOUBLE PICKET - 7' OPENING

SCALE: 1/2" = 1'-0"

NOTES:
1. SIGNS TO CONFORM TO MUTCD STANDARDS
2. SUBMIT CUT SHEETS OF POLE, SIGNAGE, CAP FOR APPROVAL.
3. ADA SIGN 1 IS MUTCD-R7-8 AND GOES FOR ACCESSIBLE RESERVED PARKING.
4. ADA SIGN 2 IS MUTCD-R7-8P AND GOES FOR VAN ACCESSIBLE.
5. SIGN 2 TO FOLLOW SIGN 1 PER VAN ACCEPTABLE LOCATIONS PER PARKING ON LAYOUT PLAN LS100.
6. "DO NOT ENTER" SIGN IS MUTCD R5-1.

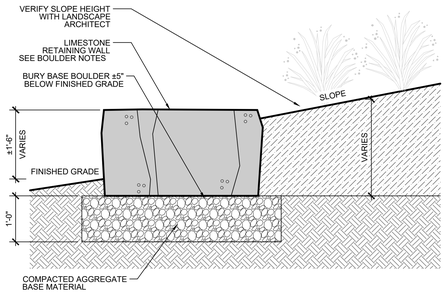






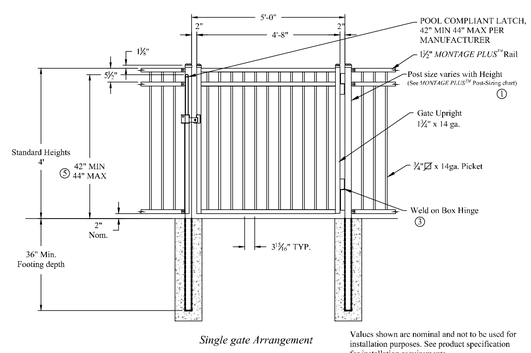
3 L701 ROAD SIGNS, TYP.

SCALE: 3/8" = 1'-0"



10 L701 BOULDER WALL

SCALE: 3/4" = 1'-0"

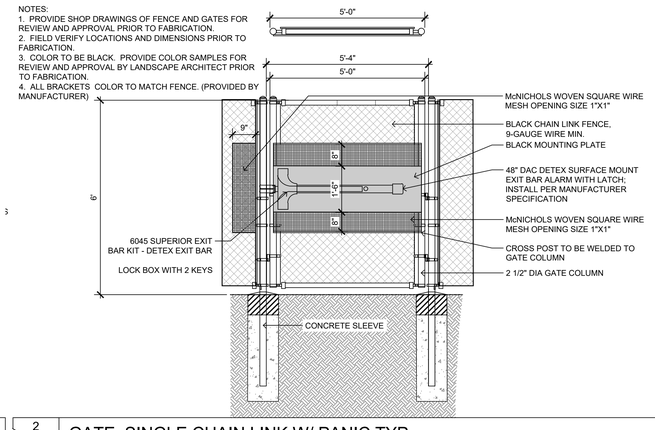


Single gate Arrangement

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

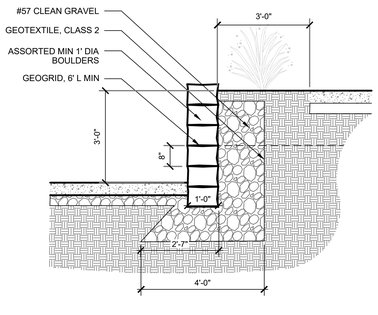
6 L701 GATE, SINGLE - 5' OPENING

SCALE: 1/2" = 1'-0"



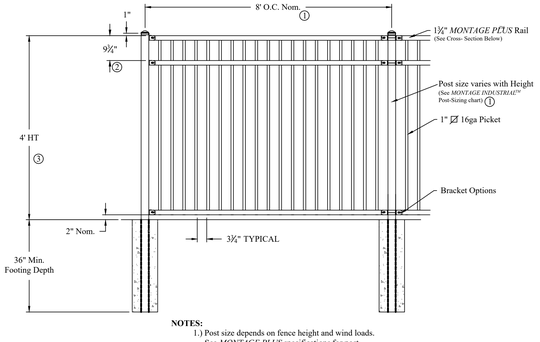
2 L701 GATE, SINGLE CHAIN LINK W/ PANIC TYP

SCALE: 1/2" = 1'-0"



9 L701 RETAINING WALL

SCALE: 1/2" = 1'-0"

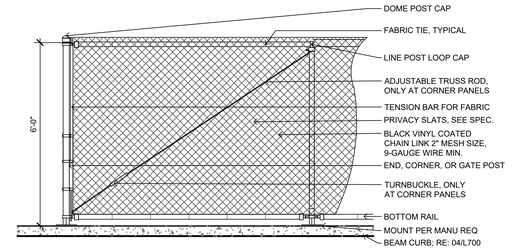


NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE PLUS* specifications for post sizing chart and dimensions.
2.) Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

5 L701 FENCE PICKET (INTERNAL) TYP

SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER).



1 L701 FENCE CHAIN LINK (PERIMETER) TYP

SCALE: 1/2" = 1'-0"

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Revision Schedule

No.	Date	Description
1	02-26-2026	MAJOR SITE PLAN RESUBMITTAL 01

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	MAJOR SITE PLAN RESUBMITTAL #1
Date	2026-03-05

SITE DETAILS

L701

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WHEELING PARK DISTRICT AQUATICS CENTER
STORMWATER MANAGEMENT REPORT

GHA Project No.: 5987.151
Date: December 12, 2025



Prepared For:
Wheeling Park District
100 Community Blvd
Wheeling, Illinois 60090

Wheeling Park District
We're People Driven

Prepared by:
Monica Hue, P.E.
Gewalt Hamilton Associates, Inc.
625 Forest Edge Drive
Vernon Hills, IL 60061

REGISTERED PROFESSIONAL ENGINEER
MONICA X. HUE
062-071066
STATE OF ILLINOIS

GHA GEWALT HAMILTON ASSOCIATES, INC.

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3. Proposed Stormwater Design 1
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   3.2 Detention Design 2
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Exhibits

A. Heritage Park FEMA FIRM Map
B. Wheeling Drainage Ditch Flood Profile
C. Existing Drainage Exhibit
D. Proposed Drainage Exhibit

Appendices

A. Relevant Historical Documents
B. Updated Required Detention Calculations
C. Updated Lake Heritage Available Detention Storage Tracker
D. Provided Volume Control Calculations
E. Seasonal High Groundwater Table Letter & Soil Boring Logs
F. Storm Sewer Calculations
G. Overflow Weir Capacity Calculations

1. Project Description

The existing Aquatics Center at Heritage Park has reached the end of its service life and needs to be replaced. Site improvements for the Aquatics Center include demolition of the existing pool facility and accessory pool buildings and construction of new pool facilities, bathhouses, and mechanical buildings. There will also be internal roadway modifications and at grade parking lot partial reconstruction / partial rehabilitation immediately west of the Aquatics Center.

There will be stormwater management improvements to support the redevelopment zones. The proposed stormwater management system, including existing detention and proposed volume control, is designed in accordance with the requirements of the Village of Wheeling and the Metropolitan Water Reclamation District (MWRD). Detention is to be provided in the existing Heritage Park onsite regional detention basin. The location of the proposed volume control facilities are to be within the improved west parking lot and in an open area east of the Aquatics Center.

2. Stormwater History and Existing Conditions

The project is located within a separate sewer area tributary to the waterway, the Wheeling Drainage Ditch.

Stormwater management for the park campus is currently provided in the Heritage Park onsite regional detention basin. Based on the latest MWRD permit #24-136 and the Lake Heritage Detention Volume / Compensatory Storage Tracker, there is some excess detention storage available in Lake Heritage and that 0.78 acre-feet of storage is still reserved for the Park District and 5.24 acre-feet of detention is reserved for the Village of Wheeling.

The Aquatics Center improvements is located adjacent to the regulatory floodplain of the Wheeling Drainage Ditch, in which the 10-year flood elevation is 640.6 and the base flood elevation is 642.7 as shown in Exhibits A and B. Although the project limits are not within the regulatory floodplain, the project area is within 100 feet of the floodplain. There are no wetlands nor riparian environments on or within 100 feet of the project area. The site does not appear to have known subsurface contamination.

Refer to Appendix A for relevant historical documents, including MWRD Permit #07-306 Schedule D Area of Site Exhibit, Lake Heritage Detention Volume / Compensatory Storage Tracker last updated on May 31, 2024, and the MWRD pre-application meeting minutes for the proposed project.

3. Proposed Stormwater Design

The Family Aquatics Center portion of the proposed project, as shown in Exhibit D – Proposed Drainage Exhibit, has a redevelopment area of 6.21 acres with a proposed impervious area of 2.08 acres and 0.60 acre of open pool water.

The west parking lot improvements, including the front entrance drop-off area, pathways, and the amphitheater concession patio west of the bath house and concession buildings, have a redevelopment area of 1.13 acres with a proposed impervious area of 0.35 acre. The redevelopment area within the west parking lot includes reconfiguration areas of the parking lot islands. There will be two large parking lot islands to accommodate volume control required for the west parking lot improvements. Approximately

1.46 acres of the improved west parking lot is treated as maintenance area as there will be no change in use with similar drainage patterns and grading as the existing conditions.

3.1 Detention and Volume Control Requirements

Schedule D-Legacy is used to determine the required detention volume. Based on historical MWRD permits, it appears that both Village and MWRD have used the same required detention volume. For consistency and simplicity, the updated required volume for this project still uses the Village's more stringent stormwater standards for both Village and MWRD. The required additional detention volume is calculated using Modified Rational Method and is the difference between the storage required for the redevelopment area using the new Bulletin 75 rainfall data (with the Village's allowable release of 0.15 cfs/acre) and the storage required for the same redevelopment area using TP-40 rainfall data (with the actual release of 0.17 cfs/acre). The provided volume control storage for this project is then subtracted from the difference in detention volume between existing and proposed conditions.

Note it appears the original runoff coefficients for the Lake Heritage detention service area of 57.5 acres from MWRD permit #98-480 used 0.95 for impervious area and 0.45 for pervious area for both Village and MWRD. For the proposed conditions within the redevelopment area, the runoff coefficients adhere to the current Village's more stringent standards: 0.95 for impervious area and 0.5 for pervious area.

Since the proposed impervious area is at least 0.10 acre, volume control is required for MWRD. The requirement for volume control is to retain one inch of runoff from impervious surfaces within the project area. The required volume control volume excludes the pool areas because they will drain out to the sanitary sewer.

3.2 Detention Design

As shown in Appendix B, the additional required detention volume for the combined Family Aquatics Center and west parking lot redevelopment areas is 0.72 ac-ft. The proposed project will utilize 0.72 ac-ft of the available 0.78 ac-ft of detention volume in Lake Heritage for the Park District use. The remaining detention storage for the Park District becomes 0.06 ac-ft post project. Appendix C provides an updated Lake Heritage Available Detention Storage Tracker.

Note that based on the tracker, the Village has 5.24 ac-ft of surplus detention storage available within Lake Heritage. Our office and the Park District have had preliminary discussions with the Village staff in which the Village is open to providing their credits for detention to the Park District for the redevelopment within Heritage Park. Creating additional detention storage on Heritage Park is a hardship for the Park District as it would burden park open space areas. The expansion of the existing Lake Heritage has been also considered. However, the expansion of the lake is not viewed as a practical means of increasing stormwater storage due to the presence of wetlands southwest of the existing lake, the steepness of the existing lake bank on its south shore, the high costs of excavation in such close proximity to the lake, and the excessive distance between where excavation would occur and where the soil would be placed.

At this time, it does not appear utilizing Village credits will be needed for the proposed project based on the current site plan. The use of Village detention credits will be requested to the Village board if the site

plan changes that requires additional detention storage once the Park District available credits are exhausted and when future improvements are proposed within the park.

3.3 Volume Control Design

A bioretention facility (surface storage, soil media mix, and coarse aggregate) will capture the first flush of the proposed impervious area stormwater runoff for the Family Aquatics Center improvements. Main storm sewer trunklines north and south of the Family Aquatics Center are proposed to capture the proposed runoff and convey it to the bioretention facility.

Volume control for the west parking lot zone is provided in two bioretention facilities via parking lot islands along with coarse aggregate underneath a bay of parking stalls between the two islands. Runoff from the pavement of the parking lot will sheet drain through the curb cuts to the bioretention facilities, which will then collect and infiltrate runoff and disperse it through the stone underneath the parking lot. Stormwater within the volume control facilities will then rise to the volume control high water level (HWL) elevation of 646.0 before it overflows into the rims of the open lid structures within the islands. The underdrains within the volume control facility will discharge to existing storm sewers within the parking lot that eventually outlets into Lake Heritage.

There will be unrestricted proposed impervious areas that cannot drain to the volume control facilities, which include the front entrance drop-off area, pathways, and the amphitheater concession patio west of the bath house and concession buildings. A portion of the maintenance area within the west parking lot draining to the volume control islands is used as tradeoff area for the unrestricted areas to the volume control facilities.

Since the site in a separate sewer area tributary to the waterway, MWRD requires a minimum of 2' separation between the seasonal high groundwater level (SHGWL) and the bottom of the volume control facilities.

The following is a summary of the volume control design for each facility.

Table 1: Volume Control Summary

	East Bioretention Facility	West Bioretention Facilities & Stone Voids Under West Parking Lot
Proposed Impervious (ac)	2.08	0.35
Required Volume Control (ac-ft)	0.173	0.029
Provided Volume Control (ac-ft)	0.248	0.066
SHGWL	635.5	638.0
Bottom of Volume Control	638.5	642.5

Provided volume control calculations are provided in Appendix D. The seasonal high groundwater table letter and soil boring logs are provided in Appendix E.

3.4 Compensatory Storage Requirements

No fill is proposed within the regulatory floodplain in which the base flood elevation is 642.7. Therefore, there is no need to quantify and create compensatory storage.

3.5 Storm Sewer System Design

New storm sewers to the east volume control facility are adequately sized to pass the 25-year storm event by hydraulic grade line/pressure flow. The 25-year storm event conservatively captures the first flush of the proposed impervious areas. Runoff coefficients used are 0.5 for pervious area and 0.95 for impervious area. Catchment areas exclude the pool areas because they will drain out to the sanitary sewer. Refer to Appendix F for the storm sewer calculations.

Beyond the 25-year storm event, runoff from the family aquatics center overland flows directly southeast to Lake Heritage that serves as the detention facility for Heritage Park.

3.6 WMO Runoff Requirements

A total of 4.97 acres drain to the east volume control facility and its basin overflow weir. The overflow weir conveys the 100-year peak design runoff rate of 28.2 cfs. In order to pass 28.2 cfs, the weir elevation is at 643.5 and the weir crest HGL elevation is at 643.88. The lowest building entry elevation is at 649.5, so there is well beyond the required 1′ of freeboard above the adjacent HGL.

Note the 4.97-ac drainage area and 28.2-cfs runoff rate is conservative as it assumes the 100-year storm drains to the east volume control facility and includes pool areas in the computations for simplicity, as Exhibit D shows the overall outer drainage area to the east volume control facility. In reality, the pool areas drain to the sanitary sewer. Also, during overflow conditions, the family aquatics center sheet drains directly southeast to Lake Heritage along the aquatics center perimeter and thus has no single discharge overflow weir point. The 4.97-ac drainage area and 28.2-cfs is conservatively used to fill in the WMO runoff requirements section of Schedule D, in which the east volume control basin weir acts as the major stormwater system for the family aquatics center.

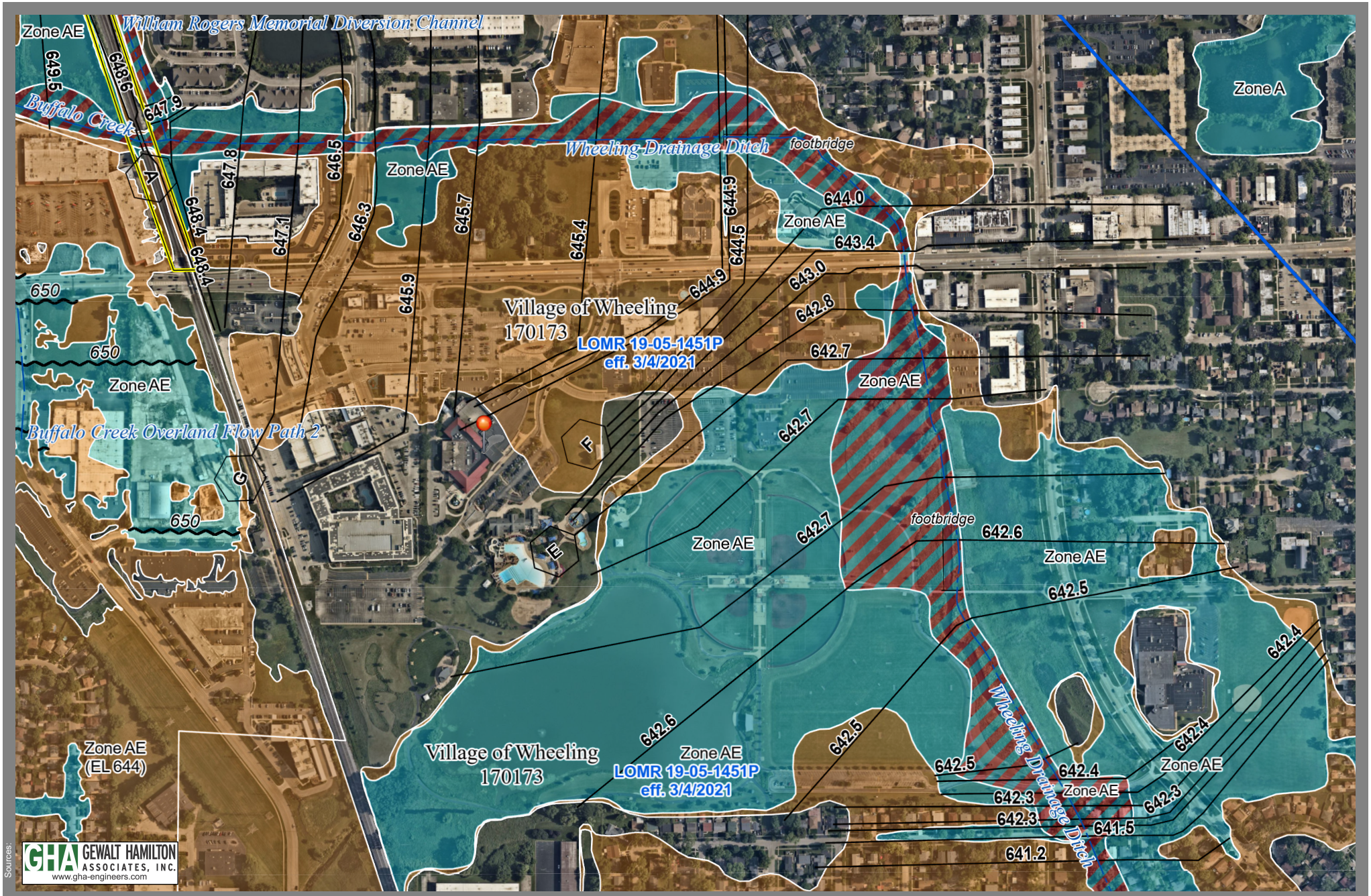
A total of 3.17 acres drain to overflow weir from the west parking lot to the existing Heritage Park roadway to the northeast. The overflow weir conveys the 100-year peak design runoff rate of 18.81 cfs. The bottom of the weir is at 646.6, and the weir crest HGL elevation to pass 18.81 cfs is at 647.42. There is no building within the tributary area to this overflow weir. The overland flow route from the existing Heritage Park roadway follows existing conditions overflow patterns, draining through the roadway and parking lots north and around the family aquatics center and eventually discharging to Lake Heritage.

Refer to Appendix G for the overflow weir capacity calculations.

3.7 Soil Erosion and Sediment Control

As shown in the engineering plan set, soil erosion and sediment control measures are proposed, including silt fence, seed and erosion control blanket, construction entrance, inlet filter baskets, and concrete washout. Since the project will disturb more than 1 acre, an IEPA NPDES permit will be submitted.

EXHIBITS



Heritage Park FEMA FIRM Map

Exhibit A

This exhibit is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes.

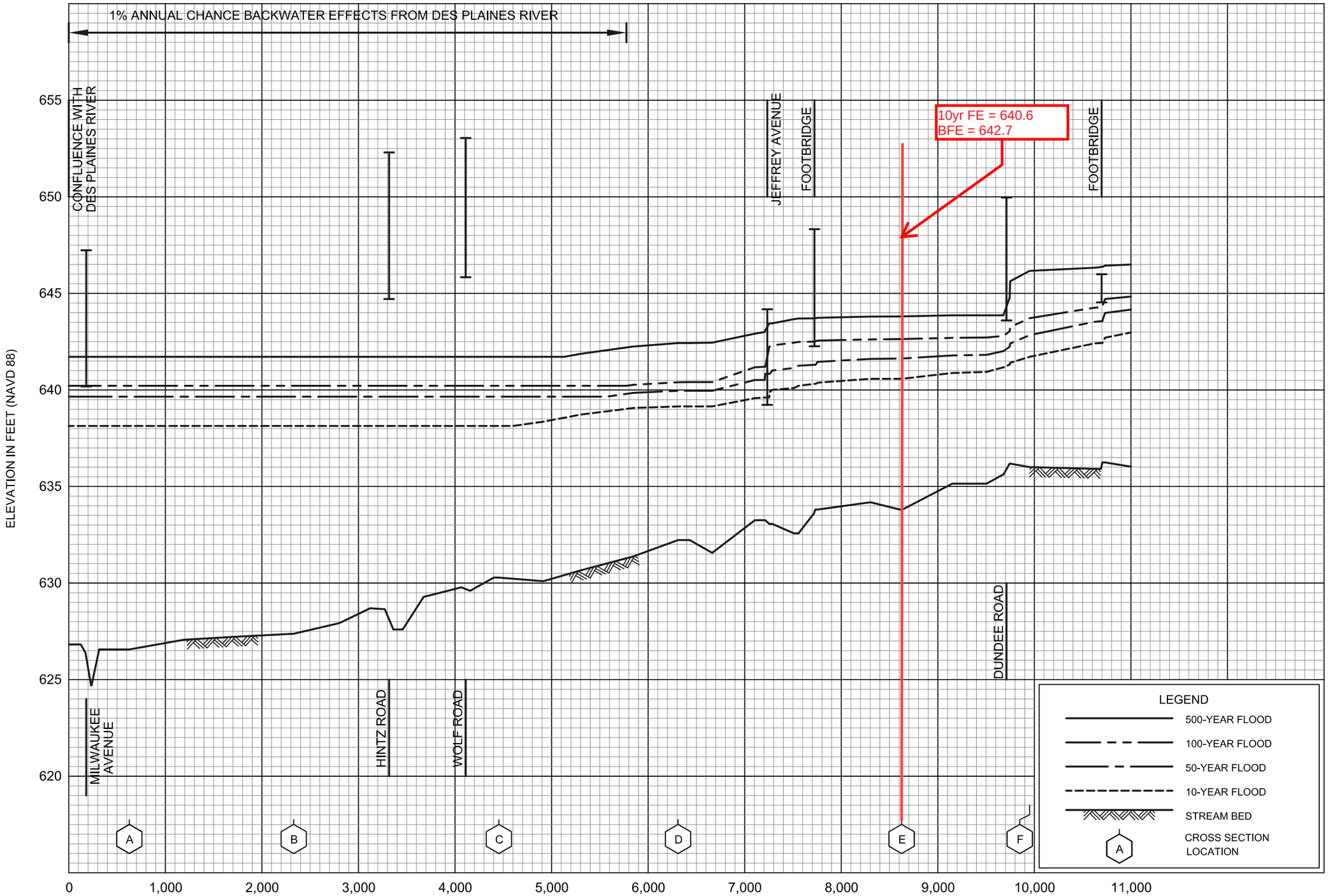


Exhibit B

FLOOD PROFILES

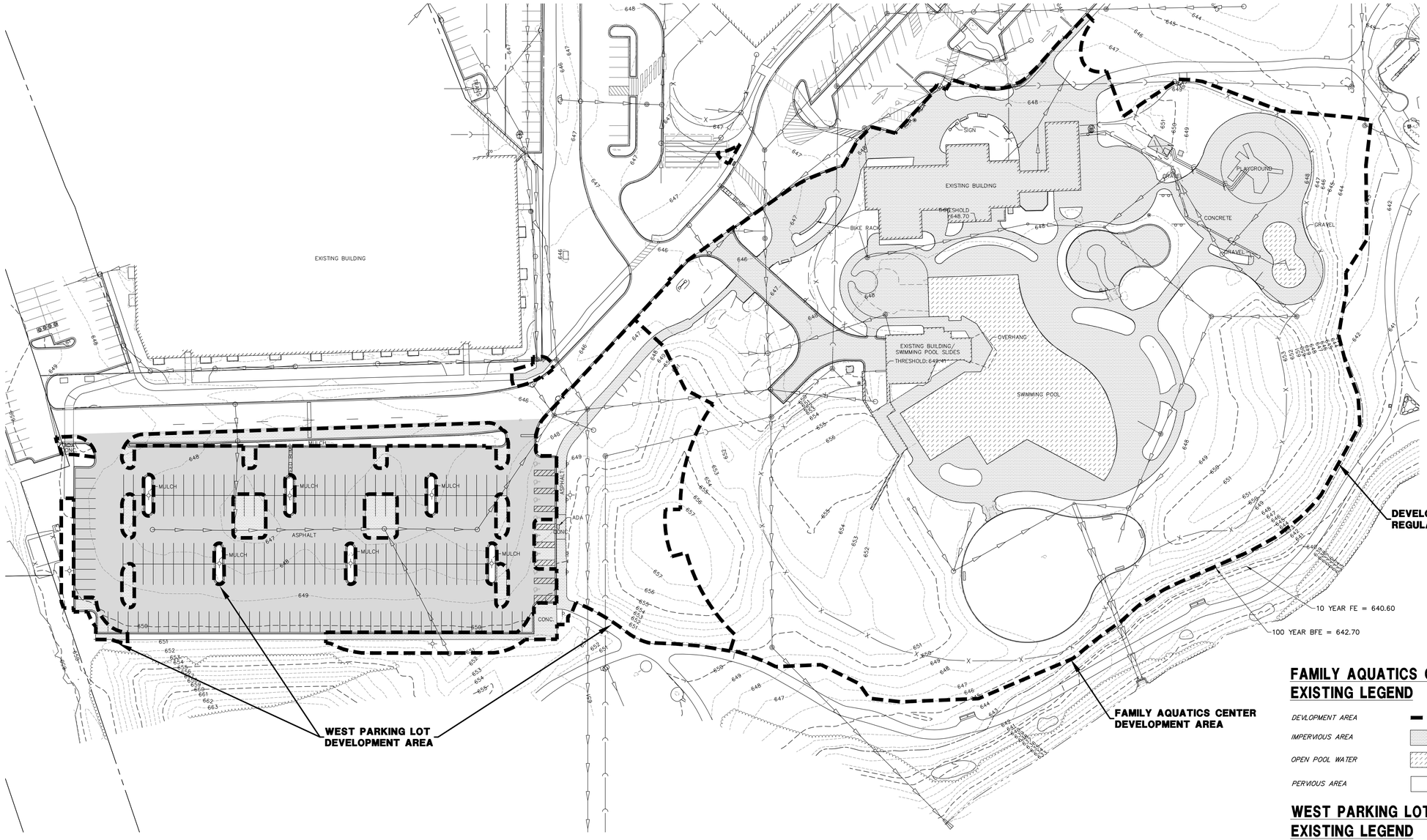
WHEELING DRAINAGE DITCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

COOK COUNTY, IL

AND INCORPORATED AREAS

393P



N

GRAPHIC SCALE

40 0 20 40

(IN FEET)
1 inch = 40ft.

FAMILY AQUATICS CENTER EXISTING LEGEND

DEVLOPMENT AREA	6.21 ACRES
IMPERVIOUS AREA	2.00 ACRES
OPEN POOL WATER	0.46 ACRE
PERVIOUS AREA	3.75 ACRES

WEST PARKING LOT EXISTING LEGEND

DEVELOPMENT AREA	1.13 ACRES
IMPERVIOUS AREA	0.35 ACRE
PERVIOUS AREA	0.78 ACRE
MAINTENANCE AREA	1.46 ACRES

EXISTING LAKE HERITAGE DETENTION DATA

TOTAL DRAINAGE AREA = 57.5 AC

FOR WHEELING PARK DISTRICT:
EXISTING EXCESS DETENTION STORAGE = 0.78 AC-FT

Exhibit C

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
49 West Randolph Street
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312.258.9595

CIVIL ENGINEER
GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive
Vernon Hills, IL 60061
847.478.9700

AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description

WHEELING PARK DISTRICT AQUATICS CENTER

VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	VILLAGE PERMIT - INITIAL SUBMITTAL
Date	2025-12-19

EXISTING DRAINAGE EXHIBIT

C36

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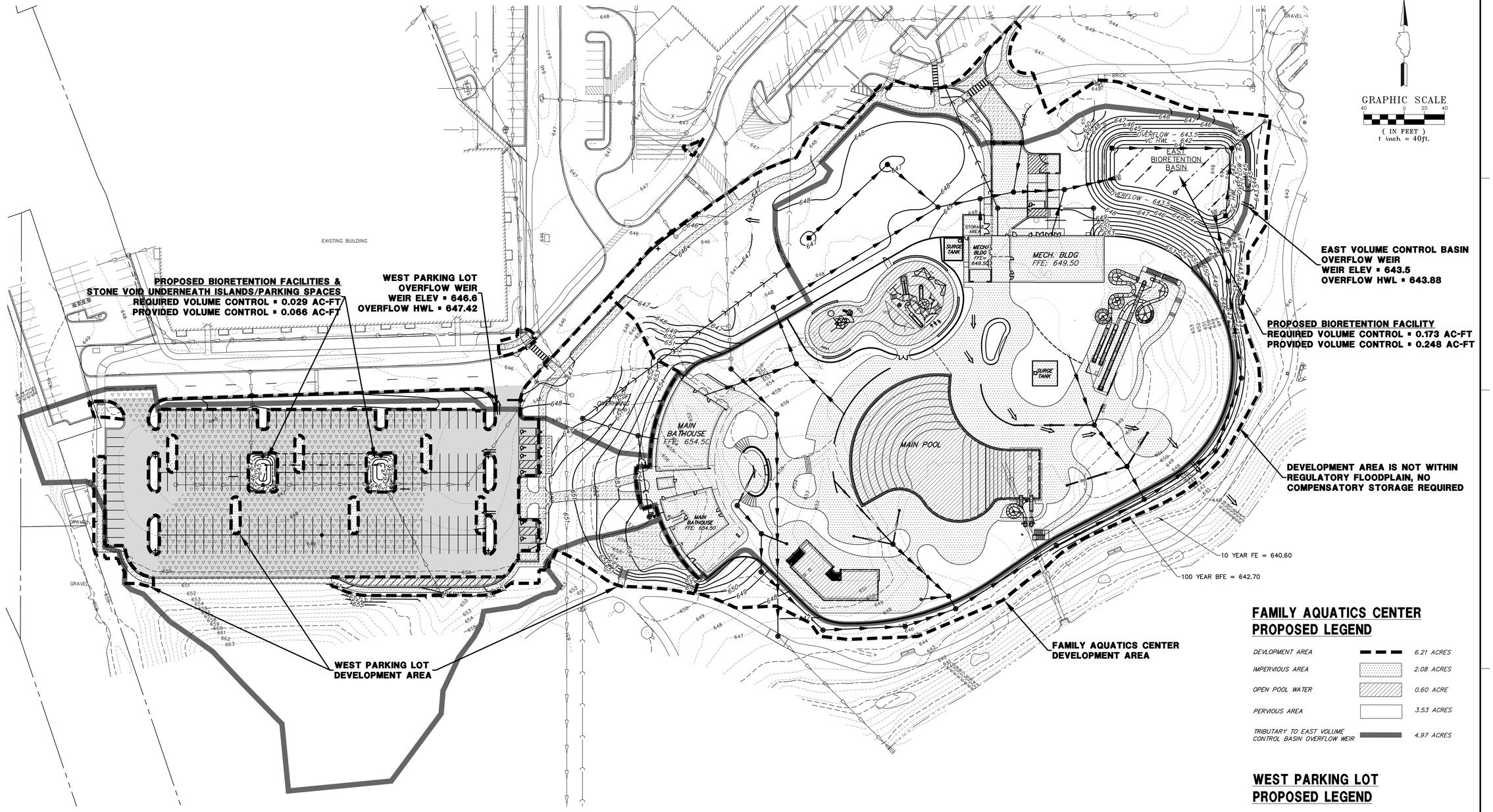

N

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40ft.

FAMILY AQUATICS CENTER PROPOSED LEGEND

DEVELOPMENT AREA	6.21 ACRES
IMPERVIOUS AREA	2.08 ACRES
OPEN POOL WATER	0.60 ACRE
PERVIOUS AREA	3.53 ACRES
TRIBUTARY TO EAST VOLUME CONTROL BASIN OVERFLOW WEIR	4.97 ACRES

WEST PARKING LOT PROPOSED LEGEND

DEVELOPMENT AREA	1.13 ACRES
IMPERVIOUS AREA	0.35 ACRE
PERVIOUS AREA	0.78 ACRE
MAINTENANCE AREA	1.46 ACRES
TRIBUTARY TO WEST PARKING LOT OVERFLOW WEIR	3.17 ACRES
DEVELOPMENT IMPERVIOUS AREA NOT TRIBUTARY TO VOLUME CONTROL	0.44 ACRE
TRADEOFF IMPERVIOUS AREA TO VOLUME CONTROL	0.94 ACRE

EXISTING LAKE HERITAGE DETENTION DATA

TOTAL DRAINAGE AREA ▪ 57.5 AC

FOR WHEELING PARK DISTRICT:
EXISTING EXCESS DETENTION STORAGE ▪ 0.78 AC-FT
2025 ADDITIONAL REQUIRED DETENTION STORAGE ▪ 0.72 AC-FT
EXCESS STORAGE AFTER 2025 PROJECT ▪ 0.06 AC-FT

MAINTENANCE PLAN FOR WHEELING PARK DISTRICT

Wheeling Park District with facilities as shown on this exhibit, shall assume responsibility for the following perpetual maintenance activities:

1. General
Regular inspections and routine maintenance of general areas shall be performed on a quarterly or as-needed basis. Specific items of concern include:
- Litter and debris shall be controlled
- Landscaped areas shall be maintained with regular mowing and restored with appropriate seeding/vegetation as necessary
- Accumulated sediment shall be disposed of properly, along with any wastes generated during maintenance operations
- Riprap areas shall be repaired with the addition of new riprap, as necessary, of similar size and shape
- Roads shall be swept, vacuumed and/or washed on a regular basis

2. Volume Control Facility
Routine inspections and maintenance of volume control facilities shall be performed by the Owner on a yearly or as-needed basis. Specific items of concern include:
- Facility shall be inspected yearly to verify the system is functioning properly.
- Accumulated sediment from surface shall be vacuumed out and disposed of properly.

Vegetated Areas
- Regular mowing to control vegetation, no cutting of native vegetation
- Need for planting, reseeding or sodding. Supplement alternative native vegetation if a significant portion has not established (50% of the surface area). Reseed with alternative grass species if original grass cover has not successfully established
- Evidence of grazing, motorbikes or other vehicles, repair
- Check for invasive vegetation, remove where possible
- All vegetation must be maintained per the approved planting plan

3. Stormwater Collection System
The Owner shall perform two inspections per year of all components of the stormwater collection system. The inspections shall occur in the spring and fall of each year and include the following specific areas of concern.

Storm Inlets/Manholes
- Remove accumulated leaves and other debris from grates
- Reset covers/lids on as-needed basis
- Remove accumulated sediment from manhole bottom when 50% of sump is filled

Storm Sewers
- Visually inspect pipes by removing manhole lids, make repairs as necessary
- Storm sewers shall be checked for siltation deposits at inlets, outlets, and within the conduit, clean out as necessary
- Replant and reseed any eroded areas
- Restore riprap at outfalls if erosion observed

4. Overflow Weirs
- Annual visual inspections shall be performed that verify the design capacity of the overflow weir is maintained
- Remove any obstructions that have been placed in the drainage path
- Regrade to provide positive drainage as necessary

5. Vegetated Areas
- Need for planting, reseeding, or sodding. Supplement alternative native vegetation if a significant portion has not established (50% of the surface area after second growing season). Reseed with alternative native grass species if original grass cover has not successfully established.
- Evidence of grazing, motorbikes, or other vehicles, repair
- Check for invasive vegetation, remove when possible
- Regular mowing to control vegetation; it is recommended that native vegetation remain uncut
- Dead or damaged non-native grassy areas - repair with seeding with fertilization or seeding with mulch

6. Qualified Sewer Construction
- Perform manhole inspections once every five years, make repairs as necessary
- Perform sewer inspections once every five years, make repairs as necessary
- Perform regular cleaning so that each sewer segment is cleaned once every 5 years

Exhibit D

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Avenue #601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

ARCHITECT
LEGAT ARCHITECTS, INC.
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CIVIL ENGINEER
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AQUATICS DESIGNER
WATER TECHNOLOGY, INC.
100 Park Avenue
Beaver Dam, WI 53916
920.887.7375

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description

WHEELING PARK DISTRICT
AQUATICS CENTER
VILLAGE OF WHEELING, ILLINOIS
105 COMMUNITY BLVD
WHEELING, IL 60090

Project Number	25070
Issue	VILLAGE PERMIT - INITIAL SUBMITTAL
Date	2025-12-19

PROPOSED DRAINAGE EXHIBIT

C37

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WITH BLACK AND WHITE LETTERS.

File Location: G:\950\50987 151 Wheeling PD Aquatic Cntr\Drainage\50987 151 DRAINAGE EXHIBIT / SAVE DATE: 12/17/2025 10:44 AM BY: MHue / PLOT DATE: 11/19/2026 6:00 PM BY: Monica Hue

APPENDIX A

Relevant Historical Documents



N

LEGEND

SCHEDULE D SITE AREA FOR DETENTION PER PREVIOUS MWRD PERMIT (57.5 ACRES)

TOTAL AREA OF CONTIGUOUS OWNERSHIP-VILLAGE OF WHEELING AND WHEELING PARK DISTRICT (100.36 ACRES)

10/17/2007 7:54:53 AM
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...\050583\dgns\MWRD\EXHIBITS.tbl
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522?km
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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001021 - EXPIRES 4/30/2007

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
* REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			
1" 5" 0 1" 2" 3"			
	DRAWING FILE: ...\050583 VILLAGE & PARK SITE EXHIBIT.SHT		

BAXTER & WOODMAN Consulting Engineers

Baxter & Woodman

Crystal Lake, Illinois	815.459.1960
Burlington, Wisconsin	262.763.7854
Mokena, Illinois	708.478.2090
DeKalb, Illinois	815.787.3111
Grayslake, Illinois	847.223.5088
Rockford, Illinois	815.489.1651
Plainfield, Illinois	815.609.7425

VILLAGE OF WHEELING, ILLINOIS

VILLAGE HALL SITE IMPROVEMENTS

SCHEDULE D AREA OF SITE EXHIBIT

DESIGNED BY: TLH	SCALE: 1" = 150'
DRAWN BY: RKM	PROJECT NO.: 050583.01
CHECKED BY: TLH	SHEET NO.: 1 OF 1
DATE: 10-16-2007	

Lake Heritage Detention Volume / Compensatory Storage Tracker
Updated May 31, 2024

Permit No.	Project Name/Description	Methodology for Detention	Detention Volume						Compensatory Storage					
			Village of Wheeling			Wheeling Park District			WMO Requirements			Village Requirements		
			Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Storage Available After Project (ac-ft)	Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Available Storage Before Project (ac-ft)	Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Storage Available After Project (ac-ft)	Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Available Storage After Project (ac-ft)
14-161	Northgate Crossing	Detention N/A Comp Storage N/A - SPO							26.000	2.410	23.590	26.000	2.410	23.590
15-213	The Whitley of Wheeling (IGA Amended October 2, 2015)	0 cfs, located within FPA, TR-20	10.00	0.00**	10.00	1.40	0.00	1.40	23.590	0.000**	23.590	23.590	0.000**	23.590
N/A	Dundee Road Bridge (IDOT)	Detention N/A Comp Storage N/A - IDOT							23.590	0.270	23.320	23.590	0.270	23.320
16-162	Wheeling Town Center (*See below and 9/22/16 Letter)	0.30 cfs/ac, theoretical pond, 0.85 ac-ft onsite	10.00	1.00	9.00									
16-343	Proposed Asphalt Plant	N/A							23.320	0.000***	23.320	23.320	0.000***	23.320
18-003	Wheeling Recreation Center Renovation	0.15 cfs/ac, village requirement				1.40	0.51	0.89						
18-199	The Whitley of Wheeling (IGA Amended October 2, 2015)	0 cfs, located within FPA, TR-20	9.00	1.66	7.34				23.320	0.275	23.045	23.320	0.375	22.945
23-049	Northgate - Dundee Storm Sewer	Bulletin 70 - Nomograph	*9.00*	*1.66*	*7.34*									
18-234	Uptown 500	0.30 cfs/ac, theoretical pond	7.34	2.10	5.24				23.045	4.664	18.381	22.945	6.360	16.585
22-338	Fire Station 42	0.611 ac-ft provided in onsite via vaults							18.381	0.277	18.104	16.585	0.824	15.761
24-136	Community Recreation Center Parking & Greenhouse	0.15 cfs/ac, village requirement				0.89	0.11	0.78						
			Current Available Volume (ac-ft)		**5.24**	**Current Available Volume (ac-ft)**		**0.78**	**Current Available Storage (ac-ft)**		**18.104**	**Current Available Storage (ac-ft)**		**15.761**

* The Village has agreed to provide up to 1.0 ac-ft of detention storage. A resolution will be prepared when final engineering is approved and actual required detention volume determined.
** Permit 15-213 was issued with 1.66 ac-ft of detention storage and 0.375 ac-ft of compensatory storage provided in Lake Heritage, and was superseded by Permit 18-199.
*** 3.102 acre-feet of WMO compensatory storage and 4.24 acre-feet of compensatory storage credited back due to revised modeling and FEMA LOMR (see September 2022 letter; original development not within 100-year floodplain, per new model)

MWRD Pre-Application Meeting Minutes
Heritage Park Improvements

GHA GEWALT HAMILTON ASSOCIATES, INC.
CONSULTING ENGINEERS

625 Forest Edge Drive, Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701
www.gha-engineers.com

Project #: 5987.151

Date: June 17, 2025, 10:30am – 11:30am

Location: Online – Microsoft Teams Meeting

Attendees: Daniel Feltes, MWRD
Stephen Kaszonyi, MWRD
Jeremiah Campion, MWRD
Maureen Durkin, MWRD
Terry Berkbuegler, Confluence
Devon Dillinger, Confluence
Jan Buchs, Wheeling Park District
Matt Wehby, Wheeling Park District
Don Matthews, GHA
Brian Spencer, GHA
Monica Hue, GHA
Mei Zhu, GHA

The following meeting minutes represent topics discussed at the referenced meeting.

Project Overview

- Phase 1: family aquatic center reconstruction and west parking lot improvements
- Future phase: north parking lot and access roads reconstruction, new roundabout

Heritage Park & Lake Heritage – Existing Conditions

- 10yr FE = 640.6, BFE = 642.7
- Per MWRD Permits #98-480 and #91-196:
    - Detention was provided in 1st foot of pond (NWL = 632, top of detention = 633) and compensatory storage provided between 633 – 640(overflow).
    - 10 cfs pumped release, 3 – 1500 gpm pumps
    - Required detention computed using 10 cfs actual release over 57.5-ac detention service area using weighted runoff coefficient of pond, impervious, and pervious areas
- MWRD said the Lake Heritage Flood Control project reconfigured the lake from the original permits. Stormwater management and design are now subjected to the Intergovernmental Agreement (IGA) between the MWRD, Wheeling Park District, and the Village of Wheeling. The original permit conditions do not apply anymore; they are superseded by the IGA. We are no longer limited to the elevations within the lake where detention and compensatory storage shall be. The guidelines in the IGA also supersede current WMO requirements.

- Per the latest MWRD Permit #24-136, available detention storage remaining for Wheeling Park District = 0.78 ac-ft
- Surplus detention storage in Lake Heritage allocated to the Village (5.24 ac-ft surplus).

Additional Detention, Volume Control, & Stormwater Storage Strategies

- Required detention and volume control methodology
    - Currently assuming the proposed family aquatic center area has similar impervious coverage as existing, treated as new development
    - HMA to HMA pavement at west parking lot is treated as maintenance area. HMA pavement to parking lot islands and vice versa are considered development.
    - Additional required detention is the difference between current (Bul75) and old (TP40) ordinance.
    - Drains for filter backwash, deck drains and main drains of interior swimming pools are to be connected to the sanitary sewer system. Drains for filter backwash, drains intended to capture pool water for filtration and turn to the pool, and main drains of exterior swimming pools are to be connected to the sanitary sewer system. Deck drains for exterior swimming pools are to be connected to the storm sewer system.
    - For exterior swimming pools, the portion of decks that are tributary to deck drains are subject to volume control and detention. However, the pool area itself and areas served by drains that are tributary to the pool are not subject to volume control or detention because rain that falls into the pool eventually drains out the sanitary sewer.
- Volume control facility options:
    - Permeable pavement at north bays of west parking lot
        - HMA to permeable pavement is considered non-qualified development and therefore is excluded from the redevelopment area for the required detention volume computations.
        - Both HMA pavement maintenance areas and permeable pavement can be used as tradeoff areas for the proposed aquatic center impervious area.
    - Bioretention/detention basin in green space north of Lake Heritage
- Detention facility options:
    - Bioretention/detention basin in green space north of Lake Heritage
        - A new facility may be built to add additional detention required. A new, dedicated detention basin that is separate from the shoreline of the existing lake is considered qualified development. This area will need to be included in the redevelopment area of the required detention volume calculations.
    - Expand Lake Heritage (likely at southwest or south end)
        - Expanding the existing lake is considered non-qualified development and therefore is excluded from the redevelopment area for the required detention volume computations.
        - MWRD did not see an objection to expanding the lake during the call but advised us to review the IGA to make sure there are no prohibitions. The Village and/or the Park District shall not alter any stormwater management facilities at Heritage Park without the written consent of the MWRD.

- Storage in the lake can either be used as detention or compensatory storage. We no longer need to limit detention storage to the 1st foot of the lake or specific elevations.
- Recent permits have used the Village's more stringent 0.15 cfs/ac allowable release rate rather than the zero release rate to determine additional required detention volume, even though the lake/detention facility is below the BFE. MWRD mentioned to follow the guidelines of the IGA rather than the WMO for detention computations. Using zero allowable release rate is not required for this project.
- The lake is a man-made detention and flood storage facility. However, if there were wetlands at the location of the lake expansion, wetland mitigation may be required. MWRD suggested reaching out to Joe Kratzer (kratzer@mwrd.org) to confirm if there were wetlands that were protected in this area as part of the original lake development.
- MWRD has no concerns to make the area where the lake expands naturalized rather than open water with deeper excavation.
- Wheeling Park District maintains the lake. MWRD only maintains the pump station at the outfall.
- MWRD does not require verification of the existing volume and pumped outfall of the lake as it has annually been maintained by the Park District.

- Other improvements may include building berms to lose spoils. This is considered open space development as long as the existing area is turf/open space and there's no change in use. Open space development is excluded from required stormwater storage calculations. Areas with a change in use need to be included in stormwater storage calculations.

These minutes prepared by:

Gewalt Hamilton Associates, Inc.



Monica Hue, P.E.
Civil Engineer

APPENDIX B

Updated Required Detention Calculations

SCHEDULE D – LEGACY

WMO Permit Number: _____

STORMWATER MANAGEMENT FACILITIES

3. EXISTING DETENTION FACILITY APPROVED UNDER:

- ☒ Sewer Permit Ordinance → SPO Permit Number: 24-136, 18-003, 07-306, 98-480, 91-196
  (Complete items 4, 5, 7, 8)
- ☐ Watershed Management Ordinance → WMO Permit Number: _____
  (Complete items 4, 5, 7, 9 or 10)
- ☐ Not permitted by MWRD → Date Constructed: _____
  (Complete items 4, 6, 7, 8)

4. REDEVELOPMENT INFORMATION:

When the detention service area is redeveloped in the amount specified in §505.4.B of the WMO, the control structure must be modified and documented on Item 7 of this schedule.

A.	Watershed specific release rate *(Appendix B)* per Village of Wheeling's more stringent relase rate	0.15	cfs/ac
B.	Redevelopment area	7.34	acres
C.	Detention Service Area *(existing or revised)*	57.50	acres
D.	Redevelopment percentage *(4.B / 4.C)*	12.8	%

5. INFORMATION FOR EXISTING DETENTION FACILIY PERMITTED BY MWRD:

Information obtained from the approved permit and recent survey. The existing detention facility may be modified to comply with the existing and/or new stormwater detention requirements.

A.	Detention Service Area	57.50	acres
B.	Gross allowable release rate	12.679	cfs
C.	Unrestricted release rate	0	cfs
D.	Depressional storage release rate adjustment	0	cfs
E.	Net allowable release rate	12.679	cfs
F.	Actual release rate	10	cfs
G.	Required detention volume at actual release rate 9.677 (from Permit #07-306) + 0.51 (from Permit #18-003) + 0.106 (from Permit #24-136)	10.293	ac-ft
H.	Provided detention volume at HWL	12.791	ac-ft

Note: per Lake Heritage available detention storage tracker last modified for Permit #24-136, Lake Heritage has available detention storage of 0.78 ac-ft attributed to the Wheeling Park District and 5.24 ac-ft attributed to the Village of Wheeling

6. INFORMATION FOR EXISTING DETENTION FACILIY NOT PERMITTED BY MWRD:

SPO methodology may be used to determine the stormwater detention requirements for existing detention facilities constructed prior to May 1, 2014. If constructed on or after May 1, 2014, use WMO Schedule D.

A.	Detention Service Area		acres
B.	Time-of-concentration		minutes
C.	3-year storm rainfall intensity		in/hr
D.	Gross allowable release rate		cfs
E.	Unrestricted release rate *(100-year rainfall intensity)*		cfs
F.	Net allowable release rate *(6.D – 6.E)*		cfs
G.	Composite C *(excluding unrestricted area)*		
H.	Required detention volume at actual release rate *(7.H.2)*		ac-ft

SCHEDULE D – LEGACY
STORMWATER MANAGEMENT FACILITIES

WMO Permit Number: _____

7. REDEVELOPMENT RELEASE RATE REQUIREMENTS: Provide an exhibit delineating the assigned release rates for the redevelopment and remaining non-redeveloped areas of the detention service area. Release rates must be based on the lesser of the watershed specific release rate or the existing gross allowable release rate.

A. Redeveloped area ..... 7.34 ac, 0.15 cfs/ac
0.15((2.15+0.71)/50.16) + 0.221 (47.3/50.16) = 0.217 cfs/ac
B. Remaining detention service area ..... 50.16 ac, 0.217 cfs/ac
C. New composite gross allowable release rate ..... 11.99 cfs
D. Unrestricted area *(existing or revised)* ..... *C or CN* _____ , 0 acres
E. Unrestricted release rate *(100-year, 24-hour storm)* ..... 0 cfs
F. Depressional storage release rate adjustment *(100-year, 24-hour storm)* ..... 0 cfs
G. New composite net allowable release rate *(7.C – 7.E – 7.F)* ..... 11.99 cfs
H. Control structure (restrictor) information: Existing detention basin - no proposed modifications

☒ Existing/Verified ☐ Proposed

1. Diameter ..... _____ in
2. Actual Release Rate ..... 10 cfs
3. C_d ..... _____
4. HWL ..... _____ ft
5. Type ..... 3 pumps, 1500gpm, pumped outfall
6. Invert elevation ..... _____ ft

8. REDEVELOPMENT TRIBUTARY TO SPO EXISTING DETENTION FACILITY: This item is for existing detention facilities approved under the SPO. All volumes must be based on the lesser of the watershed specific release rate or the actual release rate for the redevelopment area.

A. Release rate for the redevelopment ..... 0.15 cfs/ac
B. Existing required detention volume for redevelopment ..... 7.34 ac *C* 0.64 , 1.140 ac-ft
C. Proposed required detention volume for redevelopment ..... 7.34 ac *C* 0.69 , 2.176 ac-ft
D. Incremental detention volume *(8.C – 8.B)* ..... 1.036 ac-ft
E. Provided storage within retention-based practice *(2.F)* ..... 0.314 ac-ft
F. New required detention volume *((5.G or 6.H) + 8.D – 8.E)* ..... 11.015 ac-ft
Additional required detention = 1.036-0.314 = **0.722 ac-ft**
G. Verified detention volume *(from survey)* ..... 12.791 ac-ft
H. Additional detention volume required *(8.F – 8.G)* ..... 0 ac-ft
I. New provided detention volume at HWL *(must be ≥ 8.G)* ..... _____ ac-ft

Note: Project is utilizing 0.72 ac-ft of available 0.78 ac-ft of detention volume in Heritage Lake credited for Park District use.

9. REDEVELOPMENT TRIBUTARY TO WMO NOMOGRAPH EXISTING DETENTION FACILITY: This item is for existing detention facilities approved under the WMO using the nomograph. All volumes must be based on the lesser of the watershed specific release rate or the actual release rate for the redevelopment area.

A. Release rate allocated for the redevelopment ..... _____ cfs/ac
B. Existing required detention volume for redevelopment ..... CN_{adj} _____ , _____ ac-ft
C. Proposed required detention volume for redevelopment ..... CN_{adj} _____ , _____ ac-ft
D. Incremental detention volume *(9.C – 9.B)* ..... _____ ac-ft
E. New required detention volume *(5.G + 9.D)* ..... _____ ac-ft
F. Verified detention volume *(from survey)* ..... _____ ac-ft
G. Additional detention volume required *(9.E – 9.F)* ..... _____ ac-ft
H. New provided detention volume at HWL *(must be ≥ 8.G)* ..... _____ ac-ft

COMPOSITE RUNOFF COEFFICIENT (*C*)

PROJECT: **Family Aquatics Center & West Parking Lot** **PERMIT NUMBER:**

LOCATION: **Village of Wheeling, IL** **DATE:** **12/8/2025**

TYPE OF AREA (SELECT WITH DROP-DOWN)

X DETAINED AREA

___ UNRESTRICTED AREA

___ UPSTREAM AREA

___ MAJOR STORMWATER SYSTEM

___ OTHER: _____

CONDITION (SELECT WITH DROP-DOWN)

___ PROPOSED CONDITION

X EXISTING CONDITION

RUNOFF COEFFICIENT

Surface Description	C	Area (acres)	Product (C)(Area)
Family Aquatics Center Impervious Area	0.95	2.00	1.90
Family Aquatics Center Pool Area	0.95	0.46	0.44
Family Aquatics Center Pervious Area	0.45	3.75	1.69
West Parking Lot Impervious Area	0.95	0.35	0.33
West Parking Lot Pervious Area	0.45	0.78	0.35
TOTALS:		7.34	4.71

COMPOSITE RUNOFF COEFFICIENT

$$\text{Composite C} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{4.71}{7.34} \rightarrow \text{Composite C} = \mathbf{0.64}$$

MODIFIED RATIONAL METHOD: TP-40 RAINFALL DATA

PROJECT: Family Aquatics Center & West Parking Lot **PERMIT NUMBER:**

LOCATION: Village of Wheeling, IL **DATE:** 12/8/2025

DEVELOPMENT INFORMTION

1.	Detained Area	7.340	acres
2.	Runoff Coefficient	0.640	
3.	Actual Release Rate Actual release = 10 cfs / 57.5 ac detention service area = 0.17 cfs/ac Actual release = 0.17 cfs/ac x 7.34 ac = **1.248 cfs**	1.248	cfs

REQUIRED DETENTION VOLUME

4.	Required Detention Volume	**1.140**	ac-ft

CALCULATION TABLE

Storm Duration	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Stored Rate (cfs)	Required Storage (ac-ft)	
10 min	7.60	35.70	34.45	0.475	
20 min	5.50	25.84	24.59	0.677	
30 min	4.40	20.67	19.42	0.803	
40 min	3.70	17.38	16.13	0.889	
50 min	3.20	15.03	13.78	0.949	
1 hr	2.80	13.15	11.91	0.984	
1.5 hr	2.10	9.86	8.62	1.068	
2 hr	1.70	7.99	6.74	1.114	
3 hr	1.20	5.64	4.39	1.088	
4 hr	1.00	4.70	3.45	1.140	←
5 hr	0.84	3.95	2.70	1.115	
6 hr	0.73	3.43	2.18	1.082	
7 hr	0.65	3.05	1.81	1.045	
8 hr	0.58	2.72	1.48	0.976	
9 hr	0.53	2.49	1.24	0.924	
10 hr	0.49	2.30	1.05	0.871	
11 hr	0.46	2.16	0.91	0.830	
12 hr	0.43	2.02	0.77	0.766	
13 hr	0.40	1.88	0.63	0.678	
14 hr	0.38	1.79	0.54	0.622	
15 hr	0.36	1.69	0.44	0.550	
16 hr	0.34	1.60	0.35	0.462	
17 hr	0.33	1.55	0.30	0.425	
18 hr	0.31	1.46	0.21	0.310	
19 hr	0.30	1.41	0.16	0.254	
20 hr	0.29	1.36	0.11	0.189	
21 hr	0.28	1.32	0.07	0.117	
22 hr	0.27	1.27	0.02	0.037	
23 hr	0.26	1.22	-0.03	-0.050	
24 hr	0.25	1.17	-0.07	-0.146	

COMPOSITE RUNOFF COEFFICIENT (*C*)

PROJECT: **Family Aquatics Center & West Parking Lot** **PERMIT NUMBER:**

LOCATION: **Village of Wheeling, IL** **DATE:** **12/8/2025**

TYPE OF AREA (SELECT WITH DROP-DOWN)

X DETAINED AREA

___ UNRESTRICTED AREA

___ UPSTREAM AREA

___ MAJOR STORMWATER SYSTEM

___ OTHER:

CONDITION (SELECT WITH DROP-DOWN)

X PROPOSED CONDITION

___ EXISTING CONDITION

RUNOFF COEFFICIENT

Surface Description	C	Area (acres)	Product (C)(Area)
Family Aquatics Center Impervious Area	0.95	2.08	1.98
Family Aquatics Center Pool Area (Drain to Sanitary)	1.00	0.60	0.60
Family Aquatics Center Pervious Area	0.50	3.53	1.77
West Parking Lot Impervious Area	0.95	0.35	0.33
West Parking Lot Pervious Area	0.50	0.78	0.39
TOTALS:		7.34	5.06

COMPOSITE RUNOFF COEFFICIENT

$$\text{Composite C} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{5.06}{7.34} \rightarrow \text{Composite C} = \mathbf{0.69}$$

MODIFIED RATIONAL METHOD: BULLETIN 75 RAINFALL DATA

PROJECT: Family Aquatics Center & West Parking Lot **PERMIT NUMBER:**

LOCATION: Village of Wheeling, IL **DATE:** 12/8/2025

DEVELOPMENT INFORMTION

1.	Detained Area	7.340	acres
2.	Composite Runoff Coefficient	0.690	
3.	Actual Release Rate — Village's allowable release = 0.15 cfs/ac; Release = 0.15 cfs/ac x 7.34 ac = **1.101 cfs**	1.101	cfs

REQUIRED DETENTION VOLUME

4.	Required Detention Volume	**2.176**	ac-ft

CALCULATION TABLE

Storm Duration	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Stored Rate (cfs)	Required Storage (ac-ft)	
5 min	12.36	62.60	61.50	0.424	
10 min	10.80	54.70	53.60	0.738	
15 min	9.28	47.00	45.90	0.948	
20 min	8.04	40.72	39.62	1.091	
30 min	6.34	32.11	31.01	1.281	
40 min	5.28	26.74	25.64	1.413	
50 min	4.55	23.04	21.94	1.511	
1 hr	4.03	20.41	19.31	1.596	
1.5 hr	3.03	15.35	14.24	1.766	
2 hr	2.49	12.61	11.51	1.902	
3 hr	1.83	9.27	8.17	2.025	
4 hr	1.48	7.50	6.39	2.114	
5 hr	1.25	6.33	5.23	2.161	
6 hr	1.07	5.42	4.32	2.141	
7 hr	0.96	4.86	3.76	2.176	←
8 hr	0.86	4.36	3.25	2.152	
9 hr	0.79	4.00	2.90	2.157	
10 hr	0.72	3.65	2.55	2.104	
11 hr	0.67	3.39	2.29	2.084	
12 hr	0.62	3.15	2.05	2.029	
18 hr	0.45	2.27	1.17	1.734	
24 hr	0.36	1.81	0.71	1.403	

APPENDIX C

Updated Lake Heritage Available Detention Storage Tracker

Lake Heritage Detention Volume / Compensatory Storage Tracker
Updated December 8, 2025

Permit No.	Project Name/Description	Methodology for Detention	Detention Volume						Compensatory Storage					
			Village of Wheeling			Wheeling Park District			WMO Requirements			Village Requirements		
			Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Storage Available After Project (ac-ft)	Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Available Storage Before Project (ac-ft)	Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Storage Available After Project (ac-ft)	Available Storage Before Project (ac-ft)	Storage Utilized for Project (ac-ft)	Available Storage After Project (ac-ft)
14-161	Northgate Crossing	Detention N/A Comp Storage N/A - SPO							26.000	2.410	23.590	26.000	2.410	23.590
15-213	The Whitley of Wheeling (IGA Amended October 2, 2015)	0 cfs, located within FPA, TR-20	10.00	0.00**	10.00	1.40	0.00	1.40	23.590	0.000**	23.590	23.590	0.000**	23.590
N/A	Dundee Road Bridge (IDOT)	Detention N/A Comp Storage N/A - IDOT							23.590	0.270	23.320	23.590	0.270	23.320
16-162	Wheeling Town Center (*See below and 9/22/16 Letter)	0.30 cfs/ac, theoretical pond, 0.85 ac-ft onsite	10.00	1.00	9.00									
16-343	Proposed Asphalt Plant	N/A							23.320	0.000***	23.320	23.320	0.000***	23.320
18-003	Wheeling Recreation Center Renovation	0.15 cfs/ac, village requirement				1.40	0.51	0.89						
18-199	The Whitley of Wheeling (IGA Amended October 2, 2015)	0 cfs, located within FPA, TR-20	9.00	1.66	7.34				23.320	0.275	23.045	23.320	0.375	22.945
23-049	Northgate - Dundee Storm Sewer	Bulletin 70 - Nomograph	*9.00*	*1.66*	*7.34*									
18-234	Uptown 500	0.30 cfs/ac, theoretical pond	7.34	2.10	5.24				23.045	4.664	18.381	22.945	6.360	16.585
22-338	Fire Station 42	0.611 ac-ft provided in onsite via vaults							18.381	0.277	18.104	16.585	0.824	15.761
24-136	Community Recreation Center Parking & Greenhouse	0.15 cfs/ac, village requirement				0.89	0.11	0.78						
TBD	Wheeling Park District Aquatics Center	0.15 cfs/ac, village requirement				0.78	0.72	0.06						
			Current Available Volume (ac-ft)		**5.24**	**Current Available Volume (ac-ft)**		**0.06**	**Current Available Storage (ac-ft)**		**18.104**	**Current Available Storage (ac-ft)**		**15.761**

* The Village has agreed to provide up to 1.0 ac-ft of detention storage. A resolution will be prepared when final engineering is approved and actual required detention volume determined.
** Permit 15-213 was issued with 1.66 ac-ft of detention storage and 0.375 ac-ft of compensatory storage provided in Lake Heritage, and was superseded by Permit 18-199.
*** 3.102 acre-feet of WMO compensatory storage and 4.24 acre-feet of compensatory storage credited back due to revised modeling and FEMA LOMR (see September 2022 letter; original development not within 100-year floodplain, per new model)

APPENDIX D

Provided Volume Control Calculations

Stormwater Volume Control Volume Calculations - Bioretention Facilities and Stone Voids Underneath West Parking Lot

Volume Type	Elevations		Depth	Surface Area	Porosity	Storage Volume	Media Volume	
	High	Low	(feet)	(sf)		Formula	V_d (cf)	
Surface Storage	646.00	645.00	1.00	489	1.00	1.0 x V_d	489	
Soil Media (Above Invert)	645.00	643.50	1.50	917	0.25	0.5 x 0.25 x V_d	172	
Coarse Aggregate (Above Invert)	645.30	643.50	1.80	2,734	0.36	0.5 x 0.36 x V_d	886	
Coarse Aggregate (Below Invert)	643.50	642.50	1.00	3,651	0.36	0.36 x V_d	1,314	
						Total Provided	2,861	(CF)
							0.066	(Ac-Ft)

WEST VOLUME CONTROL REQUIRED: 0.029 (Ac-Ft)
WEST VOLUME CONTROL PROVIDED: 0.066 (Ac-Ft)

Stormwater Volume Control Volume Calculations - East Bioretention Facility

Volume Type	Elevations		Depth	Surface Area	Porosity	Storage Volume	Media Volume	
	High	Low	(feet)	(sf)		Formula	V_d (cf)	
Surface Storage	642.00	641.00	1.00	6,729	1.00	1.0 x V_d	6,729	
Soil Media (Above Invert)	641.00	639.50	1.50	7,406	0.25	0.5 x 0.25 x V_d	1,389	
Coarse Aggregate (Below Invert)	639.50	638.50	1.00	7,406	0.36	0.36 x V_d	2,666	
						Total Provided	10,784	(CF)
							0.248	(Ac-Ft)

EAST VOLUME CONTROL REQUIRED: 0.173 (Ac-Ft)
EAST VOLUME CONTROL PROVIDED: 0.248 (Ac-Ft)

APPENDIX E

Seasonal High Groundwater Table Letter & Soil Boring Logs

August 18, 2025

TESTING SERVICE CORPORATION

Local Office:
457 E. Gundersen Drive, Carol Stream, IL 60188-2492
630.462.2600 ● Fax 630.653.2726

Corporate Office:
360 S. Main Place, Carol Stream, IL 60188-2404
630.462.2600 ● Fax 630.653.2988

Ms. Jan Buchs
Wheeling Park District
100 Community Blvd.
Wheeling, IL 60090

RE: L-99,731
Bioretention Basins - Seasonal High Groundwater Table (SHGWT)
Family Aquatic Center
Heritage Park
105 Community Blvd.
Wheeling, Illinois

Dear Ms. Buchs:

An east Bioretention Basin will be constructed just northeast of the Aquatic Center and two (2) smaller west Bioretention basins will be provided in the parking lot west of the Aquatic Center. Borings 6 and 13 were drilled in the general area of the East Basin and Core 104 was performed in the area of the West Basin.

For the East Basin, the bottom is proposed at Elevation 641, to be underlain by soil media underlain by coarse aggregate and an underdrain. The coarse aggregate will extend to Elevation 637.5.

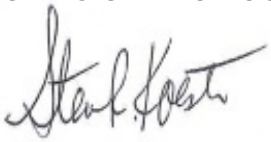
Based upon the results of nearby Borings 6 and 13, an estimated Seasonal High Groundwater Table (SHGWT) of Elevation 635.5 is recommended in connection with bioretention basin design. It should be noted that the soils encountered at the base of the proposed aggregate layers is silty clay which is practically impervious.

For the Western Basins, the bottoms will be at Elevation 645.0 with soil media underlain by coarse aggregate extending to Elevation 642. An estimated SHGWT of 638.0 is recommended at this location based upon the results of Core 104. It should be noted that the clay soils found below Elevation 641 in this core will be practically impervious.

Please call if there are any questions in regards to this matter or if we may be of further service.

Respectfully submitted,

TESTING SERVICE CORPORATION



Steven R. Koester
Vice President

PROJECT **Family Aquatic Center, at Heritage Park 105 Community Boulevard, Wheeling, IL**

CLIENT **Wheeling Park District, 100 Community Boulevard, Wheeling, IL**

STARTED **10/13/2025** FINISHED **10/13/2025** DRILL RIG NO. **314** JOB **L-99,731**

BORING **6**

ELEVATIONS
GROUND SURFACE **648.5**
END OF BORING **623.5**

WATER LEVEL OBSERVATIONS
WHILE DRILLING **Dry**
AT END OF BORING **Dry**

Depth (ft.)	Lithology	Length	Recovery	SAMPLE NO.	SAMPLE TYPE	N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
0											0.5	648.0	FILL - Black clayey TOPSOIL (OL)
				1	SS	7	36.2	1.75		85	3.0	645.5	FILL - Brown and black ORGANIC CLAY, trace snail shells, very moist (OH)
5				2	SS	7	31.3	2.25		91	5.5	643.0	FILL - Gray and black silty CLAY and organic clay layers, little sand, trace gravel, very moist (CH/OH)
				3	SS	8	35.4	1.5		86	8.0	640.5	FILL - Gray and black ORGANIC CLAY, very moist (OH)
10				4	SS	6	26.3	1.0		94	10.5	638.0	FILL - Gray and black silty CLAY, trace to little sand and gravel, trace Wood pieces, trace organic, very moist (CL)
				5	SS	9	24.8	1.5		98	13.0	635.5	FILL - Gray, brown and black silty CLAY, trace sand and gravel, trace Brick pieces, trace organic, very moist (CL)
15				6	SS	17	19.5	4.25	3.87				Very stiff to hard gray silty CLAY, trace sand, occasional sand seams, moist (CL)
				7	SS	23	19.6	4.0	3.87				
20				8	SS	27	18.5	3.75			23.0	625.5	
				9	SS	17	27.3	2.25	2.28				Very stiff gray very silty CLAY, trace to little sand, occasional silt seams, moist (CL)
25													

End of Boring at 25.0'

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Family Aquatic Center, at Heritage Park 105 Community Boulevard, Wheeling, IL**

CLIENT **Wheeling Park District, 100 Community Boulevard, Wheeling, IL**

STARTED **10/13/2025** FINISHED **10/13/2025** DRILL RIG NO. **314** JOB **L-99,731**

BORING **13**

ELEVATIONS

GROUND SURFACE **642.5**

END OF BORING **630.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

Depth (ft.)	Lithology	Length	Recovery	SAMPLE NO.	SAMPLE TYPE	N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
0											0.7	641.8	FILL - Dark brown clayey TOPSOIL (OL)
				1	SS	8	16.0	3.75		114			FILL - Brown, gray and black silty CLAY and very silty CLAY layers, little to some sand, trace gravel, moist (CL)
				2	SS	10	13.6	3.25		122			
5											5.5	637.0	
				3	SS	8	14.6	1.75		115			FILL - Black and gray sandy CLAY, trace gravel, trace organic seams, moist (CL)
											8.0	634.5	
				4	SS	20	8.4						FILL - Dark gray silty SAND, little to some gravel, occasional silt layers, trace organic seams, very moist (SM)
10											10.5	632.0	
				5	SS	19	17.7	3.75	3.34				Very stiff gray silty CLAY, little to some sand, trace gravel, moist (CL)
													End of Boring at 12.5'
15													
20													
25													

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Family Aquatic Center, at Heritage Park 105 Community Boulevard, Wheeling, IL**

CLIENT **Wheeling Park District, 100 Community Boulevard, Wheeling, IL**

STARTED **10/15/2025** FINISHED **10/15/2025** DRILL RIG NO. **353** JOB **L-99,731**

BORING **C-104**

ELEVATIONS

GROUND SURFACE **647.0**

END OF BORING **637.0**

WATER LEVEL OBSERVATIONS

WHILE DRILLING **Dry**

AT END OF BORING **Dry**

Depth (ft.)	Lithology	Length	Recovery	SAMPLE NO.	SAMPLE TYPE	N	WC (%)	Qp (tsf)	Qu (tsf)	γ DRY (pcf)	DEPTH (ft)	ELEV.	SOIL DESCRIPTIONS
0											0.3	646.7	3.8" Bituminous Concrete*
				1A			19.5	2.0		109	1.0	646.0	8" Crushed Stone Base Course
													FILL - Gray, brown and black silty CLAY, little to some sand, trace gravel, trace organic, moist (CL)
					MC						2.5	644.5	
				1B			17.2	4.25					Hard brown and gray silty CLAY, little to some sand, occasional gravel, moist (CL)
				2A			19.8				4.0	643.0	
5													Brown silty fine SAND and clayey SILT layers, very moist (SM)
					MC						6.0	641.0	
													Hard brown silty CLAY, little sand, trace gravel, moist (CL)
				2B			17.9	4.5+	6.13		8.0	639.0	
				3A			18.1	4.5					Hard gray and brown silty CLAY, little sand, trace gravel, moist (CL)
					MC						9.0	638.0	
10				3B			17.9	3.5	3.87				Very stiff gray silty CLAY, little sand, trace gravel, moist (CL)
													End of Boring at 10.0'
15													
20													
25													

* Pavement Core Results:
1.5" Surface Course Bituminous Concrete
2.3" Binder Course Bituminous Concrete

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.



NOTE:

GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.
BORING 9 WAS OFFSET ABOUT 20' SW OF LOCATION SHOWN DUE TO OBSTRUCTION AT 2'.

LEGEND

BORING LOCATION

CORE LOCATION

BORING LOCATION PLAN
FAMILY AQUATIC CENTER
105 COMMUNITY BOULEVARD
WHEELING, ILLINOIS

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

DRAWN BY:	FFE
CHECKED BY:	SRK
JOB NO. :	L-99,731
DATE:	10-31-25

PAGE NO.

1 OF 1



NOTE:

GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.
BORING 9 WAS OFFSET ABOUT 20' SW OF LOCATION SHOWN DUE TO OBSTRUCTION AT 2'.

LEGEND

BORING LOCATION

CORE LOCATION

BORING LOCATION PLAN
FAMILY AQUATIC CENTER
105 COMMUNITY BOULEVARD
WHEELING, ILLINOIS

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

DRAWN BY: FFE
CHECKED BY: SRK
JOB NO. : L-99,731
DATE: 10-31-25

PAGE NO.
1 OF 1

APPENDIX F

Storm Sewer Calculations

GHA GEWALT HAMILTON ASSOCIATES, INC.

Project Name: Wheeling PD Aquatics Center
GHA Project #: 5987.151

Calculated by: MGW
Checked by: MXH

Storm Sewer Design

DESIGN STORM: 25 YEAR STORM

From	To	Local Area		Cumulative		CA	Tc	Total	I25	**Total**	Pipe	n	Pipe	Pipe	Hydraulic	Pipe	**Pipe**	Velocity	Hyd. Grade Line		U/S Rim	Cover	Pipe Invert		Travel	Head	Depth of	Drainage Area	Notes
		Area	C	Area	C			Tc		**Flow**	Dia		Length	Area	Slope	Slope	**Capacity**		Upper	Lower	Elev.		U/S	D/S	Time	Loss	Ponding		
		(Ac.)	Factor	(Ac.)	Factor		(min)	(min)	(in/hr)	**(cfs)**	(in)		(ft)	(sq.ft)	%	%	**(cfs)**	(ft/sec)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(min.)	(ft)	(ft)		
STM9	MH211	0.05	0.91	0.05	0.91	0.05	5	5	9.24	**0.42**	6	0.011	38	0.20	0.41	1.00	**0.66**	3.36	651.83	651.68	654.09	1.90	651.59	651.21	0.19	0.10	0.00	A9	
MH211	MH210	0.00	0.00	0.05	0.91	0.05	5	5	9.24	**0.42**	10	0.011	37	0.55	0.03	10.68	**8.43**	15.47	648.04	648.04	654.00	1.86	651.21	647.26	0.04	0.10	0.00	A9	
MH210	MH209	0.00	0.00	0.16	0.81	0.13		5	9.24	**1.22**	10	0.011	38	0.55	0.22	10.68	**8.44**	15.48	646.46	646.37	651.00	2.81	647.26	643.20	0.04	0.10	0.00	A6	
MH209	MH208	0.00	0.00	0.16	0.81	0.13		5	9.24	**1.22**	15	0.013	84	1.23	0.04	0.65	**5.22**	4.25	646.27	646.24	649.50	4.80	643.20	642.65	0.33	0.10	0.00	N/A	
MH208	MH207	0.00	0.00	0.16	0.81	0.13		5	9.24	**1.22**	15	0.013	81	1.23	0.04	0.67	**5.27**	4.29	646.14	646.12	647.10	2.95	642.65	642.11	0.31	0.10	0.00	N/A	
MH207	MH206	0.00	0.00	0.16	0.81	0.13		6	9.01	**1.19**	15	0.013	53	1.23	0.03	0.66	**5.24**	4.27	646.02	646.00	646.60	2.99	642.11	641.76	0.21	0.10	0.00	N/A	
MH206	MH205	0.00	0.00	0.57	0.83	0.47	10	10	8.10	**3.81**	15	0.013	118	1.23	0.35	0.15	**2.52**	2.05	645.90	645.49	645.75	2.49	641.76	641.58	0.96	0.10	0.00	A5, A7, A8, A3, A4	
MH205	MH204	0.00	0.00	0.57	0.83	0.47		11	7.87	**3.71**	18	0.013	98	1.77	0.12	0.15	**4.11**	2.32	645.39	645.26	645.30	1.97	641.58	641.43	0.70	0.10	0.00	N/A	
MH204	MH203	0.00	0.00	1.74	0.70	1.22		12	7.64	**9.34**	18	0.013	85	1.77	0.79	0.15	**4.10**	2.32	645.16	644.49	645.30	2.12	641.43	641.30	0.61	0.10	0.00	A14, A12, A13, A1, A2	
MH203	MH202	0.00	0.00	1.74	0.70	1.22		12	7.64	**9.34**	18	0.013	77	1.77	0.79	0.12	**3.59**	2.03	644.39	643.78	644.30	1.25	641.30	641.21	0.63	0.10	0.00	N/A	
MH202	MH201	0.00	0.00	1.74	0.70	1.22		13	7.42	**9.06**	18	0.013	97	1.77	0.75	0.12	**3.69**	2.09	643.68	642.96	644.80	1.84	641.21	641.09	0.77	0.10	0.00	N/A	
MH201	FES200	0.00	0.00	1.74	0.70	1.22		14	7.19	**8.78**	18	0.013	66	1.77	0.70	0.14	**3.87**	2.19	642.86	642.40	646.60	3.76	641.09	641.00	0.50	0.10	0.00	N/A	
STM6	MH210	0.11	0.77	0.11	0.77	0.09	5	5	9.24	**0.80**	6	0.011	27	0.20	1.46	1.00	**0.66**	3.36	646.51	646.12	648.42	1.90	645.92	645.65	0.13	0.10	0.00	A6	
MH206B	CB206A	0.00	0.00	0.24	0.85	0.20	5	5	9.24	**1.88**	10	0.011	74	0.55	0.53	1.22	**2.85**	5.22	646.58	646.19	648.50	2.45	644.70	643.80	0.24	0.10	0.00	A5, A7, A8	
CB206A	MH206	0.12	0.73	0.41	0.83	0.34		5	9.24	**3.13**	12	0.011	16	0.79	0.56	5.12	**9.51**	12.11	646.09	646.00	646.50	1.60	643.80	642.98	0.02	0.10	0.00	A3, A4	
STM8	MH206B	0.08	0.89	0.08	0.89	0.07	5	5	9.24	**0.67**	6	0.011	86	0.20	1.02	1.00	**0.66**	3.36	647.16	646.29	648.42	1.90	645.92	645.06	0.43	0.10	0.00	A8	
STM7	MH206B	0.04	0.95	0.04	0.95	0.04	5	5	9.24	**0.39**	6	0.011	37	0.20	0.34	1.00	**0.66**	3.36	646.41	646.29	648.32	1.90	645.82	645.45	0.18	0.10	0.00	A7	
STM5	MH206B	0.11	0.79	0.11	0.79	0.09	5	5	9.24	**0.82**	6	0.011	40	0.20	1.56	1.23	**0.73**	3.72	646.91	646.29	648.32	1.89	645.83	645.34	0.18	0.10	0.00	A5	
STM4	CB206A	0.05	0.95	0.05	0.95	0.05	5	5	9.24	**0.47**	6	0.011	27	0.20	0.52	4.56	**1.41**	7.18	646.33	646.19	648.22	1.89	645.73	644.50	0.06	0.10	0.00	A4	
STM#15	MH204B	0.09	0.50	0.09	0.50	0.04	5	5	9.24	**0.39**	6	0.011	74	0.20	0.35	3.30	**1.20**	6.11	647.07	646.81	648.50	1.36	646.54	644.10	0.20	0.10	0.00	N/A	
MH204B	CB204A	0.00	0.00	0.41	0.72	0.29		5	9.24	**2.70**	10	0.011	52	0.55	1.09	1.00	**2.58**	4.74	646.71	646.14	647.90	2.87	644.10	643.58	0.18	0.10	0.00	A14, A12, A13	
CB204A	MH204	0.10	0.45	1.17	0.64	0.75	10	10	8.10	**6.08**	12	0.011	37	0.79	2.10	3.97	**8.37**	10.67	646.04	645.26	646.50	1.82	643.58	642.11	0.06	0.10	0.00	A1, A2	
STM14	MH204B	0.09	0.50	0.09	0.50	0.04	5	5	9.24	**0.39**	6	0.011	56	0.20	0.35	3.39	**1.22**	6.19	647.00	646.81	648.50	1.90	646.00	644.10	0.15	0.10	0.00	A14	
STM12	MH204B	0.24	0.88	0.24	0.88	0.21	5	5	9.24	**1.91**	8	0.011	104	0.35	1.80	1.71	**1.86**	5.33	648.68	646.81	648.38	1.73	645.88	644.10	0.32	0.10	0.00	A12, A13	
STM1	CB204A	0.57	0.60	0.57	0.60	0.34	10	10	8.10	**2.78**	10	0.011	43	0.55	1.16	3.19	**4.61**	8.45	646.64	646.14	647.45	1.57	644.95	643.58	0.08	0.10	0.00	A1	
STM2	CB204A	0.09	0.76	0.09	0.76	0.07	5	5	9.24	**0.65**	10	0.011	61	0.55	0.06	3.31	**4.70**	8.62	646.18	646.14	648.10	1.57	645.60	643.58	0.12	0.10	0.00	A2	
BATH HOUSE	MH106	0.28	0.95	0.28	0.95	0.27	5	5	9.24	**2.46**	12	0.011	96	0.79	0.34	4.75	**9.15**	11.66	647.36	647.04	654.50	4.40	649.00	644.44	0.14	0.10	0.00	A BATH HOUSE	
MH106	MH105	0.00	0.00	0.28	0.95	0.27		5	9.24	**2.46**	12	0.011	61	0.79	0.34	0.34	**2.46**	3.14	646.94	646.73	648.50	2.81	644.44	644.23	0.32	0.10	0.00	N/A	
MH105	MH104	0.00	0.00	0.91	0.87	0.79		5	9.24	**7.34**	18	0.011	191	1.77	0.35	0.12	**4.30**	2.44	646.63	645.96	647.90	2.07	644.23	644.00	1.31	0.10	0.00	A10, A11	
MH104	MH103	0.00	0.00	1.67	0.72	1.20		11	7.87	**9.43**	18	0.011	43	1.77	0.58	0.12	**4.23**	2.39	645.86	645.61	648.43	2.83	644.00	643.95	0.30	0.10	0.00	A15, A16	
MH103	CB102	0.00	0.00	1.70	0.72	1.22		11	7.87	**9.61**	18	0.011	34	1.77	0.60	0.12	**4.25**	2.41	645.51	645.31	649.21	3.66	643.95	643.91	0.24	0.10	0.00	A W MECH BLDG	
CB102	CB101	0.00	0.00	1.86	0.74	1.37		12	7.64	**10.49**	18	0.013	51	1.77	1.00	2.84	**17.69**	10.02	644.36	643.86	648.64	2.98	643.91	642.46	0.08	0.10	0.00	A17, A18	
CB101	FES100	0.00	0.00	1.96	0.75	1.47		12	7.64	**11.20**	18	0.013	51	1.77	1.14	2.86	**17.75**	10.05	642.98	642.40	648.84	4.63	642.46	641.00	0.08	0.10	0.00	A E MECH BLDG	
MH106	MH105	0.00	0.00	0.63	0.83	0.53	5	5	9.24	**4.88**	12	0.011	61	0.79	1.35	0.57	**3.18**	4.05	647.55	646.73	648.11	2.29	644.72	644.37	0.25	0.10	0.00	A10, A11, A BATH HOUSE	
STM10	MH106	0.35	0.74	0.35	0.74	0.26	5	5	9.24	**2.42**	10	0.011	68	0.55	0.88	2.18	**3.81**	6.99	647.42	646.83	648.42	1.57	645.92	644.44	0.16	0.10	0.00	A10 + A11	
INL104B	CB104A	0.32	0.52	0.32	0.52	0.17	10	10	8.10	**1.35**	12	0.011	107	0.79	0.10	0.20	**1.86**	2.37	646.28	646.17	646.40	0.96	644.34	644.13	0.75	0.10	0.00	A15	
CB104A	MH104	0.44	0.54	0.76	0.53	0.40		11	7.87	**3.18**	15	0.011	66	1.23	0.17	0.20	**3.38**	2.76	646.07	645.96	646.90	1.42	644.13	644.00	0.40	0.10	0.00	A16	
W MECH BLDG	MH103	0.02	0.95	0.02	0.95	0.02	5	5	9.24	**0.21**	8	0.011	37	0.35	0.02	3.35	**2.60**	7.47	645.62	645.61	649.50	4.23	644.50	643.26	0.08	0.10	0.00	A W MECH BLDG	
INL102B	INL102A	0.06	0.94	0.06	0.94	0.06	5	5	9.24	**0.52**	15	0.013	29	1.23	0.01	1.00	**6.45**	5.26	645.43	645.43	647.50	1.50	644.50	644.21	0.09	0.10	0.00	A17	
INL102A	CB102	0.10	0.92	0.16	0.93	0.15		5	9.24	**1.40**	15	0.013	50	1.23	0.05	1.00	**6.45**	5.26	645.33	645.31	647.50	1.79	644.21	643.71	0.16	0.10	0.00	A18	
E MECH BLDG	CB101	0.10	0.95	0.10	0.95	0.09	5	10	8.10	**0.76**	8	0.011	47	0.35	0.28	1.70	**1.86**	5.32	644.45	644.32	649.50	4.23	644.50	643.70	0.15	0.10	0.00	A E MECH BLDG	

Notes:
1. Refer to engineering plans or exhibits for tributary areas, pipe diameter, length, and slope.
2. Manning's roughness coefficient: n = 0.013 for RCP; n = 0.011 for PVC pipe.
3. I25 (25-year Storm Rainfall Intensity) is taken from Bulletin 75, Illinois State Water Survey.
4. Flow Q (cfs) = C I A
5. Pipe Capacity (cfs) is calculated by Manning's Equation.
6. Velocity (fps) = Q/A
7. Travel Time (min.) = Pipe length / Velocity / 60
8. Tailwater Elevation = 93% pipe depth for full flow at downstream structures

APPENDIX G

Overflow Weir Capacity Calculations

Subsection: Runoff CN-Area
Label: Trib to East VC Basin Weir
Scenario: 100 yr 30 min

Return Event: 100.00 years
Storm Event: 30 min 100 yr

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Area	98.000	1.920	0.0	0.0	98.000
Open Water	100.000	0.600	0.0	0.0	100.000
Pervious Area	74.000	2.450	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	4.970	(N/A)	(N/A)	86.410

Subsection: Unit Hydrograph Summary
Label: Trib to East VC Basin Weir
Scenario: 100 yr 30 min

Return Event: 100.00 years
Storm Event: 30 min 100 yr

Storm Event	30 min 100 yr
Return Event	100.00 years
Duration	100.000 hours
Depth	3.17 in
Time of Concentration (Composite)	0.167 hours
Area (User Defined)	4.970 acres

Computational Time Increment	0.022 hours
Time to Peak (Computed)	0.222 hours
Flow (Peak, Computed)	28.66 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	0.250 hours
Flow (Peak Interpolated Output)	28.20 ft³/s

100yr, 30min critical duration storm

Drainage Area	
SCS CN (Composite)	86.000
Area (User Defined)	4.970 acres
Maximum Retention (Pervious)	1.63 in
Maximum Retention (Pervious, 20 percent)	0.33 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.81 in
Runoff Volume (Pervious)	0.749 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.750 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.167 hours
Computational Time Increment	0.022 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	33.78 ft³/s

Subsection: Unit Hydrograph Summary
Label: Trib to East VC Basin Weir
Scenario: 100 yr 30 min

Return Event: 100.00 years
Storm Event: 30 min 100 yr

SCS Unit Hydrograph Parameters	
Unit peak time, Tp	0.111 hours
Unit receding limb, Tr	0.445 hours
Total unit time, Tb	0.556 hours

Culvert Analysis Report
Weir

East volume control basin overflow weir

Hydraulic Component(s): Roadway					
Discharge	28.20	cfs	Allowable HW Elevation	643.88	ft
Roadway Width	20.00	ft	Overtopping Coefficient	2.95	US
Low Point	643.50	ft	Headwater Elevation	643.88	ft
Discharge Coefficient (Cr)	2.95		Submergence Factor (Kt)	1.00	
Tailwater Elevation	-9,999.00	ft			

Overflow HWL

Sta (ft)	Elev. (ft)
0.00	645.00
8.00	644.00
10.00	643.50
49.00	643.50
51.00	644.00
55.00	645.00

Subsection: Runoff CN-Area
Label: Trib to West Parking Lot Weir
Scenario: 100 yr 30 min

Return Event: 100.00 years
Storm Event: 30 min 100 yr

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Area	98.000	1.740	0.0	0.0	98.000
Pervious Area	74.000	1.430	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.170	(N/A)	(N/A)	87.174

Subsection: Unit Hydrograph Summary
Label: Trib to West Parking Lot Weir
Scenario: 100 yr 30 min

Return Event: 100.00 years
Storm Event: 30 min 100 yr

Storm Event	30 min 100 yr
Return Event	100.00 years
Duration	100.000 hours
Depth	3.17 in
Time of Concentration (Composite)	0.167 hours
Area (User Defined)	3.170 acres

Computational Time Increment	0.022 hours
Time to Peak (Computed)	0.222 hours
Flow (Peak, Computed)	19.24 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	0.250 hours
Flow (Peak Interpolated Output)	18.81 ft³/s

100yr, 30 min critical duration

Drainage Area	
SCS CN (Composite)	87.000
Area (User Defined)	3.170 acres
Maximum Retention (Pervious)	1.49 in
Maximum Retention (Pervious, 20 percent)	0.30 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.89 in
Runoff Volume (Pervious)	0.499 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.500 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.167 hours
Computational Time Increment	0.022 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.55 ft³/s

Subsection: Unit Hydrograph Summary
Label: Trib to West Parking Lot Weir
Scenario: 100 yr 30 min

Return Event: 100.00 years
Storm Event: 30 min 100 yr

SCS Unit Hydrograph Parameters	
Unit peak time, Tp	0.111 hours
Unit receding limb, Tr	0.445 hours
Total unit time, Tb	0.556 hours

Culvert Analysis Report
Weir

West parking lot overflow weir

Hydraulic Component(s): Roadway					
Discharge	18.81	cfs	Allowable HW Elevation	647.42	ft
Roadway Width	20.00	ft	Overtopping Coefficient	2.96	US
Low Point	646.60	ft	Headwater Elevation	647.42	ft
Discharge Coefficient (Cr)	2.96		Submergence Factor (Kt)	1.00	
Tailwater Elevation	-9,999.00	ft			

Overflow HWL

Sta (ft)	Elev. (ft)
-45.00	647.74
-24.00	647.35
-8.50	647.24
0.00	647.10
0.00	646.60
25.00	647.80
25.00	648.30

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PV25-0015, Request for a Variation to Reduce the Minimum Required Side Yard Setback on the North Property Line From 15 Feet to 0.5 Feet for Construction of Ground-Mounted Equipment Associated with a Proposed Rooftop Solar Collection System for Cubesmart, L.P. (1004 S. Milwaukee Avenue). **PUBLIC HEARING**

RECOMMENDED ACTION: **Recommend approval of Docket No. PV25-0015** granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections, to permit a decrease in the minimum required side yard setback from 15 feet to 0.5 feet for installation of a 600 kW rooftop solar collection system and associated ground-mounted equipment for Cubesmart, L.P., located at 1004 S. Milwaukee Avenue, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/27/2026; and Equipment Specifications; and subject to the following conditions:

1. Approval of the variance is contingent upon approval of Docket No. PSPMIN26-0004 (minor site plan and building appearance approval) and Docket No. PV26-0008 (variation to permit a decrease in the minimum required front yard setback along Milwaukee Avenue).

EXECUTIVE SUMMARY

Docket No. PV25-0015: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner, is seeking a variation to permit a decrease in the minimum required side yard setback on the north property line from 15 feet to 0.5 feet for ground-mounted equipment associated with a proposed rooftop solar collection system for the property located at 1004 S. Milwaukee Avenue, as required in Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections.

GENERAL PROPERTY INFORMATION

Petitioner: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner

Location: 1004 S. Milwaukee Avenue

Property size: 3.07 acres / 55,774 sq. ft. (buildings)

Neighboring Property Land Use(s):
- North: Commercial
- West: Residential/Airport
- South: Airport
- East: Open Space (across S. Milwaukee Avenue)

Existing Use of Property: Public Storage Facility (Cubesmart)

Existing Zoning: B-3 (General Commercial and Office)

Comprehensive Plan Designation: Commercial

Zoning History:

- Docket #SCBA 05-45, approved 9/22/2005, granting approval of a freestanding sign.
- Ordinance No. 4538, approved 7/12/2010, granting a variation to permit a sign to exceed 100 sq. ft. due to the addition of an electronic message center (Docket #2010-15).
- Docket #SCBA 11-59, approved 11/17/2011, granting approval for a freestanding sign and awning sign.
- Docket #SCBA 17-20, approved 4/4/2017, granting an administrative approval of a freestanding sign face change.

SUMMARY OF REQUEST

The petitioner is requesting a variation to permit a decrease in the minimum required (north) side yard setback from 15 feet to 0.5 resulting from the installation of ground-mounted equipment associated with a proposed 600 kW rooftop solar collection system on the existing Cubesmart self-storage buildings at 1004 S. Milwaukee Avenue.

In addition, the petitioner is seeking minor site plan and appearance approval for the installation of ground-mounted equipment and rooftop solar collection system (Docket No. PSPMIN26-0004) and a variation to permit a decrease in the minimum required front yard setback along Milwaukee Avenue (Docket No. PV26-0008).

VARIATION

A variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

As detailed in Docket No. PSPMIN26-0004, the petitioner is proposing to install ground-mounted equipment associated with a proposed rooftop solar collection system on the existing self-storage buildings at the Cubesmart facility. The ground-mounted equipment is proposed to be installed within the side yard setback along the north property line of the subject site. Since all the ground-mounted equipment will be located within the required side yard building setback, the petitioner is requesting a variation to permit a decrease in the minimum required side yard setback from 15 feet to 0.5 feet.

To visually screen the ground equipment, the petitioner will be installing a three-sided 6-foot tall, white vinyl fence surround. The equipment and screening fence will be located east of an existing trash enclosure, with a similar reduced setback (existing condition), and will be consistent with the existing trash enclosure location.

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request.

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.**

   Petitioner: The subject parcel is already fully developed with a Cubesmart storage facility. The proposed roof top solar project does not involve the removal or demolition of any of the existing improvements. The proposed roof top solar project utilizes the roof tops of the existing structures. In addition to the roof top solar panels, the Project requires ground level interconnection facilities such as transformers and electrical poles. These interconnection facilities must be located in an area approved by Commonwealth Edison. Accordingly, the location of these above-ground interconnection facilities is restricted by the existing improvements on the subject parcel and Commonwealth Edison's requirements. The only feasible location for the project interconnection facilities is within the setback area. Without the reduced side yard setback variation the roof top solar project cannot be installed.

   Staff: The subject site is fully developed wherein a small area of the site, the north side yard, is the only

unpaved area and creates locational constraints associated with required utility interconnection infrastructure. The requirement to locate such equipment in accordance with required zoning setbacks is not achievable given the entirety of the site is improved with self-storage buildings or pavement which must remain clear for vehicle access.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other properties or uses.**

   Petitioner: This hardship is unique because roof top solar projects seek to provide a beneficial additional use utilizing existing structures on developed parcels. When the Cubesmart facility was developed, it was not contemplated that years later the facility would be suitable for a roof top solar project which will utilize the otherwise unused space of the facility roof to provide clean renewable energy to the grid. Additionally, unlike other improvements, the interconnection facilities are subject to and must be approved by Commonwealth Edison. Accordingly, these circumstances are unique and different from other types of constructions and uses.

   Staff: The hardship is due to unique circumstances associated with retrofitting an existing developed site that does not provide any undeveloped yards or open space.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**

   Petitioner: The hardship in complying with the setback requirements for the electrical interconnection equipment arises from the unique situation of seeking to utilize an already developed parcel and meeting the interconnection requirements of Commonwealth Edison. When the Cubesmart facility was developed, it was not contemplated that roof top solar energy project would be built and therefore no effort was made to accommodate it in the facility design. Neither the applicant nor the property owner created this situation.

   Staff: The hardship was not created by the current property owner or petitioner. The site was developed prior to the consideration of rooftop solar installations.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**

   Petitioner: The property in question here is large and un-utilized roof top space on the storage facility buildings. This unused space (here and at other commercial and industrial locations throughout the Chicago area) present an opportunity to use this space to produce clean renewable energy. This energy production is able to be done with relatively minor additions to the current facility, placing solar panels on the roof and the installation of the electrical interconnection infrastructure. As stated above, without the variance the interconnection facilities cannot be installed on the subject parcel and therefore the roof top solar project cannot be developed. If the variance is not granted, the opportunity for this beneficial clean energy use is lost.

   Staff: Without the requested variation, the subject property would be limited in its ability to accommodate the proposed rooftop solar installation and associated infrastructure. However, the property can continue to function as a self-storage facility.

5. **State how the granting of the variation will not alter the essential character of the locality.**

   Petitioner: Solar panels on commercial roof tops will have no impact upon surrounding properties in this area, and such installations are commonplace on residential, commercial and industrial properties. The variance concerns electrical interconnection facilities which consist of ground level electrical equipment and electrical poles. These types of facilities are located everywhere in the Chicago metropolitan area and are generally unnoticed by the general public. In the Village's commercial district, and with the proposed fencing, the granting of this variance should not cause any impact upon surrounding property.

   Staff: The proposed variation will not alter the essential character of the surrounding area since the ground interconnection equipment will be located and screened is a similar manner as the existing trash enclosure which has not caused disruptions to the character of the area.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of**

fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.

Petitioner: The installation of the roof top solar panels only require an increase of height several inches above the current roof top and will therefore not impair supply of light and air to adjacent property. Community roof top solar projects requires only periodic maintenance and therefore will not create any noticeable traffic in the public streets. Roof top solar projects have been safely and successfully installed at residential, commercial and industrial buildings for decades and do not pose unreasonable risk of fire or endanger the public safety. Roof top solar projects are located throughout the United States and do not impair property values, create traffic, noise, odor, light or smoke. Emergency access to the site is not affected by the proposed improvements.

Staff: The proposed variation will not negatively impact adjacent properties or public safety. The rooftop solar system will not affect light or air to neighboring properties, generate traffic, or create nuisance conditions. The Chicago Executive Airport has been notified of the proposed project.

STAFF REVIEW

Fire Department Review: No comments related to the Variation.

Engineering Division Review: No comments related to the Variation.

Staff Recommended Action: Staff recommends approval of the variance request subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSPMIN26-0004 (minor site plan and building appearance approval) and Docket No. PV26-0008 (variation to permit a decrease in the minimum required front yard setback along Milwaukee Avenue).

****

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of a variation, the appropriate motion would be to:

Recommend approval of Docket No. PV25-0015 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections, to permit a decrease in the minimum required side yard setback from 15 feet to 0.5 feet for installation of a 600 kW rooftop solar collection system and associated ground-mounted equipment for Cubesmart, L.P., located at 1004 S. Milwaukee Avenue, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/27/2026; and Equipment Specifications; and subject to the following conditions:

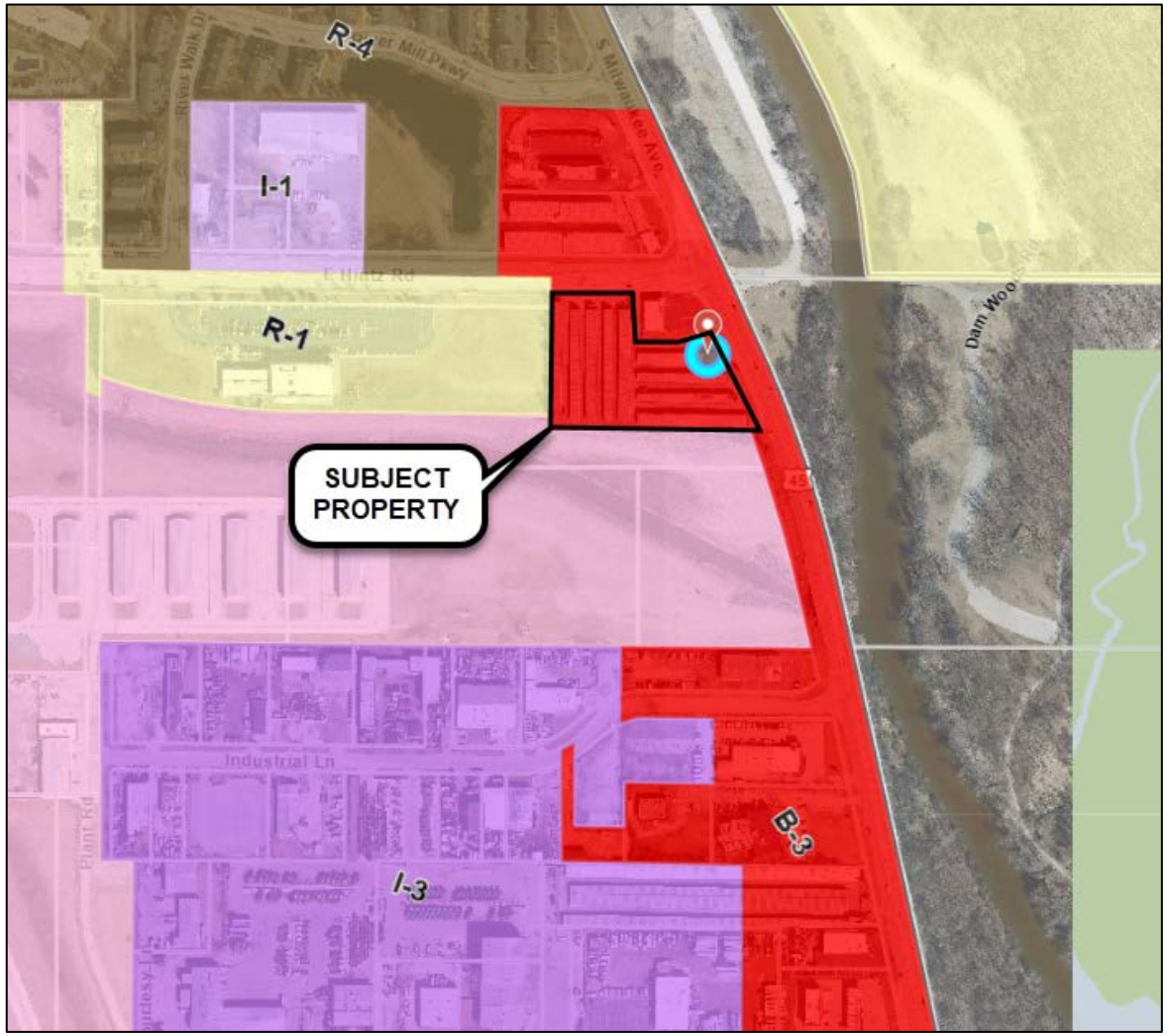
1. Approval of the variance is contingent upon approval of Docket No. PSPMIN26-0004 (minor site plan and building appearance approval) and Docket No. PV26-0008 (variation to permit a decrease in the minimum required front yard setback along Milwaukee Avenue).

ATTACHMENTS:

Attachments to Staff Report (Staff)
Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025
Plan Set prepared by Atwell, last revised 3/27/2026
Equipment Specifications



LOCATION MAP



ZONING MAP



View of North Property Line/Project Area Facing West.



View of North Property Line/Project Area Facing East.



View of the Existing Trash Enclosure on the West Side of the Project Area.

601 Bangs Ave, Suite 301
Asbury Park, NJ 07712
O. 844.765.2769
SOLARLANDSCAPE.COM

Project Narrative
1004 Milwaukee Ave, Wheeling, IL

(1) Owner and/or developer's name, phone number and address;

DEVELOPER

SOLAR LANDSCAPE LLC

601 BANGS AVENUE, SUITE 301

ASBURY PARK, NJ 07712

PHONE: (856) 437-9711

CONTACT: EMILY MCCUE

PROPERTY OWNER

CUBESMART L.P.

5 OLD LANCASTER RD

MALVERN, PA 19355

PHONE: 610-535-5407

CONTACT: ANDREA PRUDENTE

(2) Where applicable, the architect's or engineer's name, phone number and address;

CIVIL ENGINEER

ATWELL, LLC

1250 EAST DIEHL ROAD, SUITE 300

NAPERVILLE, IL 60563

PHONE: (630) 577-0800

FAX: (630) 577-0900

CONTACT: MICHAEL KEITH, P.E.

(3) Description of all proposed buildings indicating proposed uses and building size;

N/A – no new buildings proposed

Proposed Use of Existing Buildings:

Installation of a 400 kW AC rooftop community solar array on existing Cubesmart buildings on the property located at 1004 Milwaukee Ave, Wheeling, IL.

(4) Descriptions of the location, type and size of all outside signs;

No proposed monument signs. Only regulatory signs (i.e. WARNING: TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE THIS PANEL or any required regulatory signs/labels needed for the equipment).

(5) Calculations indicating the total site size, building floor area, number of parking spaces, amounts of impervious surfaces, and amount of nonimpervious green space.

N/A – no revisions to the existing property/structures

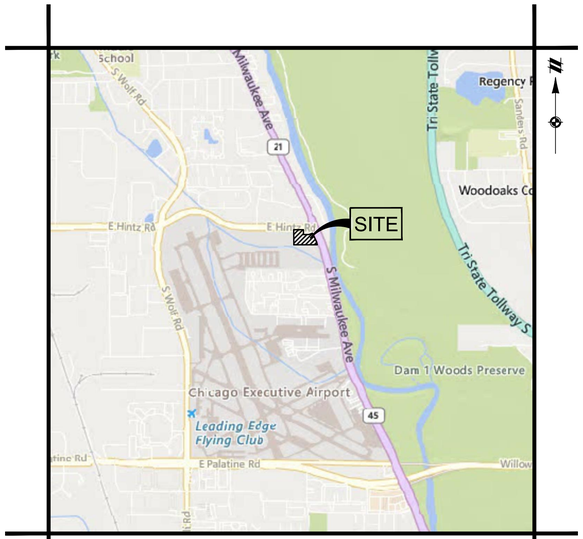
Existing Features On-Site:

- Site Area: 3.07 Acres
- Gross Floor Area of Existing Building footprints: 55,774 square feet.
- 4 marked existing parking spaces.
- Existing Impervious Area: 3.03 Acres
- Existing Non-Impervious Area: 0.04 Acres

CS IL 1004 MILWAUKEE AVE

1004 SOUTH MILWAUKEE AVENUE
WHEELING, COOK COUNTY, ILLINOIS

SPECIAL USE PERMIT PLANS



VICINITY MAP
NOT TO SCALE

DEVELOPMENT TEAM

DEVELOPER
SOLAR LANDSCAPE LLC
601 BANGS AVENUE, SUITE 301
ASBURY PARK, NJ 07712
PHONE: (856) 437-9711
CONTACT: EMILY MCCUE

CIVIL ENGINEER
ATWELL, LLC
1250 EAST DIEHL ROAD, SUITE 300
NAPERVILLE, IL 60563
PHONE: (630) 577-0800
FAX: (630) 577-0900
CONTACT: MICHAEL KEITH, P.E.

SURVEYOR
SURVEY SYSTEMS OF AMERICA, INC.
783 SOUTH EIGHTH STREET
DUNDEE, IL 60118
PHONE: (847) 428-5775
CONTACT: JOHN ERNST

GOVERNING AGENCIES & UTILITY CONTACTS

MUNICIPALITY/PLANNER
DIRECTOR OF COMMUNITY DEVELOPMENT
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: ROSS KLICKER

CITY ENGINEER
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

ELECTRIC
COMED
PHONE: (800) 334-7661

SOIL EROSION
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

WATER & SEWER
UTILITY SUPERINTENDENT
77 WEST HINTZ ROAD
WHEELING, IL 60090
PHONE: (847) 279-6928
CONTACT: JEFF WOLFGRAM

GAS
NICOR GAS
PHONE: (888) 642-6748

LEGAL DESCRIPTION

PARCEL 1:
THAT PART OF LOT 4 IN HENRY GRANDT AND OTHERS' SUBDIVISION (HEREINAFTER DESCRIBED), LYING NORTH OF A LINE 380 FEET SOUTH OF THE NORTH LINE OF SECTION 13 (ALSO BEING THE CENTER LINE OF HINTZ ROAD), AND EAST OF A LINE 216 FEET WEST OF THE WEST LINE OF LOT 5 EXTENDED, (EXCEPT THAT PART LYING EAST OF THE WEST LINE OF LOT 5, IN HENRY GRANDT AND OTHERS' SUBDIVISION AFORESAID, EXTENDED SOUTH, ALSO EXCEPTING THEREFROM THE SOUTH 14 FEET OF THE NORTH 44 FEET THEREOF CONDEMNED BY THE COUNTY OF COOK IN CASE NUMBER 86L51436), SAID LOT 4 BEING IN HENRY GRANDT AND OTHERS' SUBDIVISION OF THAT PART OF THE SOUTH 1420.62 FEET OF SECTION 12, WEST OF THE CENTER OF MILWAUKEE AVENUE, AND A PART OF THE NORTH ½ OF SECTION 13, ALL IN TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID SUBDIVISION FILED IN THE REGISTRAR'S OFFICE OF COOK COUNTY, ILLINOIS, JANUARY 29, 1923 AS DOCUMENT 172867, IN COOK COUNTY ILLINOIS.

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THAT PART OF LOT 4 IN HENRY GRANDT AND OTHERS' SUBDIVISION (HEREINAFTER DESCRIBED), LYING NORTH OF A LINE 380 FEET SOUTH OF THE NORTH LINE OF SECTION 13 (ALSO BEING THE CENTER LINE OF HINTZ ROAD), AND EAST OF THE WEST LINE OF LOT 5 EXTENDED SOUTH, SAID LOT 4 BEING IN HENRY GRANDT AND OTHERS' SUBDIVISION OF THAT PART OF THE SOUTH 1420.62 FEET OF SECTION 12, WEST OF THE CENTER LINE OF MILWAUKEE AVENUE, AND A PART OF THE NORTH ½ OF SECTION 13, ALL IN TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID SUBDIVISION FILED IN THE REGISTRAR'S OFFICE OF COOK COUNTY, ILLINOIS, JANUARY 29, 1923 AS DOCUMENT 172867, (EXCEPT THEREFROM THAT PART DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 4, SAID CORNER BEING ON THE CENTERLINE OF MILWAUKEE AVENUE; THENCE SOUTHEASTERLY 134.33 FEET ALONG SAID CENTERLINE AND THE EAST LINE OF SAID LOT 4 ON AN ASSUMED BEARING OF SOUTH 24° 51' 09" EAST; THENCE CONTINUING SOUTHEASTERLY 169.92 FEET ALONG SAID CENTERLINE, BEING A TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 2,383.80 FEET, CENTRAL ANGLE 4° 05' 03" TO A LINE 380 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13; THENCE NORTH 89° 17' 12" WEST, 69.10 FEET ALONG SAID PARALLEL LINE; THENCE NORTH 12° 10' 54" WEST, 62.77 FEET; THENCE NORTH 23° 36' 24" WEST, 166.66 FEET; THENCE NORTH 28° 41' 08" WEST, 50.86 FEET TO THE NORTH LINE OF SAID LOT 4; THENCE NORTH 69° 41' 26" EAST, 54.57 FEET ALONG SAID NORTH LINE OF LOT 4 TO THE POINT OF BEGINNING, CONDEMNED BY THE COUNTY OF COOK IN CASE NUMBER 94 L 50951 AND RECORDED AS DOCUMENT R9000788), ALL IN COOK COUNTY, ILLINOIS.

PARCEL 3:
NON-EXCLUSIVE EASEMENT FOR THE BENEFIT OF PARCELS 1 AND 2 FOR STORM WATER DRAINAGE AS CREATED BY RECIPROCAL EASEMENT AGREEMENT MADE BY MILWAUKEE AMUSEMENT CORPORATION AND THE FIRST NATIONAL BANK OF LAKE FOREST, TRUST NO. 4287, RECORDED SEPTEMBER 3, 1974 AS DOCUMENT 22835025 AND FILED AS DOCUMENT LR2771582, AS AMENDED AND RESTATED RECIPROCAL EASEMENT AGREEMENT RECORDED JUNE 4, 1998 AS DOCUMENT 98466355.

SHEET INDEX

C01.0 COVER SHEET
C02.0 EXISTING CONDITIONS PLAN
C03.0 SITE LAYOUT PLAN
C04.0 STANDARD NOTES AND DETAILS

Michael B. Keith
MICHAEL B. KEITH
062-066723
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
03/27/2026
EXP. 11/30/2027

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NAPERVILLE, IL 60563
630.577.0800
DESIGN FIRM #184005876-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
COVER SHEET

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05 REVISIONS PER CLIENT
2025/12/17 REVISIONS PER CLIENT & VILLAGE
2026/02/23 REVISIONS PER VILLAGE
2026/03/27 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO. C01.0

I:\2025\25000704\SITE\SPECIAL\25000704-SUP-COVER SHEET 2026-03-27.DWG, COVER SHEET, 3/27/2026 3:57 PM, ALEX HANAK



LEGEND

- BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SETBACK LINE
- EXISTING BUILDING
- FEMA REGULATORY FLOODWAY

EXISTING CONDITIONS BASED ON ALTA/ACSM LAND TITLE SURVEY BY SURVEY SYSTEMS OF AMERICA, INC. 11/30/2004.

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SCALE IN FEET
0 30 60 90 150

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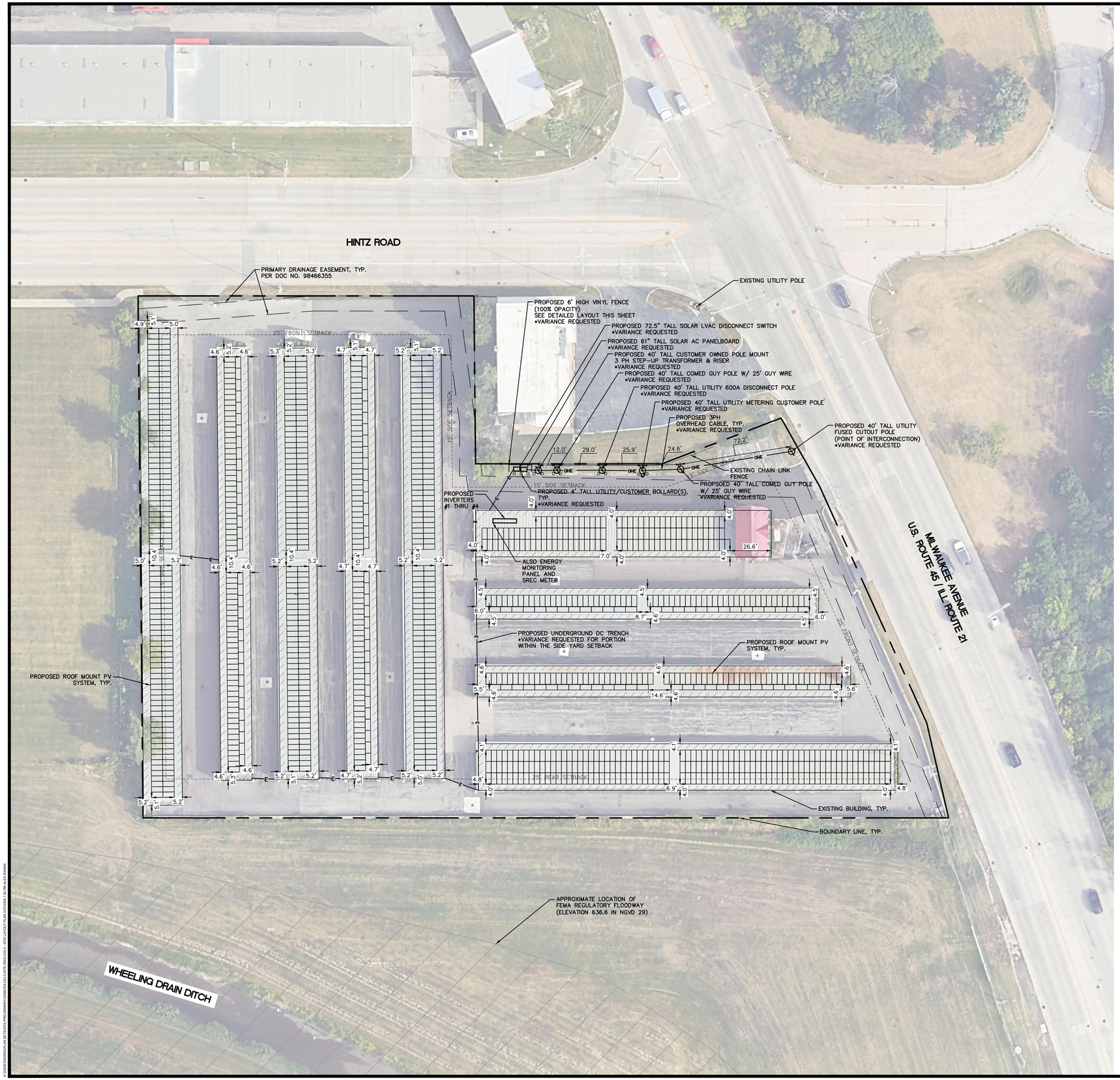
DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C02.0



LEGEND

- BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SETBACK LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- PROPOSED FENCE
- EXISTING BUILDING
- FEMA APPROXIMATE FLOODWAY

SITE DATA

PIN:	03-13-101-025
JURISDICTION:	VILLAGE OF WHEELING, IL
ZONING DISTRICT:	B-3 (GENERAL COMMERCIAL AND OFFICE DISTRICT)
CURRENT LAND USE:	STORAGE FACILITY
PARCEL AREA:	± 3.074 ACRES

FEMA FLOOD HAZARD: REGULATORY FLOODWAY AND ZONE AE PER FIRM MAP #17031C0207J DATED 8/19/2008.

GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
3. LIMITS OF WORK SHALL BE EROSION CONTROL BARRIERS AS INDICATED ON DRAWINGS.
4. ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.
5. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
6. EXISTING TREES AND SHRUBS SHALL NOT BE CLEARED, UNLESS OTHERWISE NOTED.
7. FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

ZONING DISTRICT:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS THAT MAY BE PROMULGATED BY THE COOK COUNTY PLANNING AND DEVELOPMENT DEPARTMENT, SOIL AND WATER CONSERVATION DISTRICT, AND MUNICIPAL AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, SECURING AND COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AS ADMINISTERED BY THE STATE ENVIRONMENTAL PROTECTION AGENCY.

LAYOUT AND MATERIALS NOTES:
1. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN SITE PLAN DIMENSIONS AND BUILDING PLANS BEFORE PROCEEDING WITH ANY PORTION OF SITE WORK WHICH MAY BE AFFECTED SO THAT PROPER ADJUSTMENTS TO THE SITE LAYOUT CAN BE MADE IF NECESSARY.
4. PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

ZONING REQUIREMENTS

ZONING DISTRICT: B-3

REQUIRED SETBACKS FOR GROUND EQUIPMENT:

YARD	REQUIRED	PROPOSED
FRONT / STREETS:	25 FT.	SEE NOTE BELOW. •
SIDE:	15 FT.	SEE NOTE BELOW. •
REAR:	N/A	N/A

•ALL PROPOSED GROUND MOUNTED EQUIPMENT AND PROPOSED STRUCTURES ARE LOCATED WITHIN THE SETBACK(S). VARIANCE IS REQUESTED FOR THE FOLLOWING:

- POINT OF INTERCONNECTION POLE IS WITHIN THE FRONT YARD SETBACK AND 4.7 FT. FROM THE RIGHT-OF-WAY.
- 6' HIGH VINYL FENCE IS WITHIN THE SIDE YARD SETBACK AND IS 0.5 FT. FROM THE PROPERTY LINE.
- SOLAR LVAC DISCONNECT SWITCH IS WITHIN THE SIDE YARD SETBACK AND IS 2.0 FT. FROM THE PROPERTY LINE.
- SOLAR AC PANELBOARD IS WITHIN THE SIDE YARD SETBACK AND IS 2.3 FT. FROM THE PROPERTY LINE.
- CUSTOMER OWNED POLE MOUNT 3 PH STEP-UP TRANSFORMER & RISER IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- WEST COMED GUY POLE W/ 25' GUY WIRE IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- UTILITY 600A DISCONNECT POLE IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- UTILITY METERING CUSTOMER POLE IS WITHIN THE SIDE YARD SETBACK AND IS 4.4 FT. FROM THE PROPERTY LINE.
- UTILITY/CUSTOMER BOLLARDS ARE WITHIN THE SIDE YARD SETBACK AND ARE 6.3 FT. FROM THE PROPERTY LINE (DISTANCE FROM PROPERTY LINE TO NEAREST BOLLARD).
- EAST COMED GUY POLE W/ 25' GUY WIRE IS WITHIN THE SIDE YARD SETBACK AND IS 6.1 FT. FROM THE PROPERTY LINE.
- UNDERGROUND DC TRENCH IS PARTIALLY WITHIN THE SIDE YARD SETBACK AND IS 3.4 FT. FROM THE PROPERTY LINE (DISTANCE FROM PROPERTY LINE TO NEAREST PORTION OF UNDERGROUND DC TRENCH).
- 3PH OVERHEAD CABLE IS PARTIALLY WITHIN THE FRONT AND SIDE YARD SETBACKS. THE PORTION OF THE 3PH OVERHEAD CABLE THAT COMES CLOSEST TO THE PROPERTY LINE (SIDE YARD) SITS AT 4.2 FT., AND FOR THE RIGHT-OF-WAY (FRONT YARD), 4.7 FT.

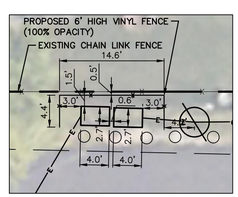
APPROXIMATE LOCATION FOR FEMA REGULATORY FLOODWAY SHOWN ON PLANS. THE REMAINDER OF THE SITE IS IN ZONE AE.

FLOODPLAIN NOTES

1.) FLOODPLAIN ELEVATION ON PROPERTY NEAREST TO THE IMPROVEMENTS IS 636.6 IN NVGD 29 (640.2 NAVD 88).

2.) ANY ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE THE BASE FLOOD ELEVATION (636.6) OR FLOOD PROOFED.

3.) AS-BUILT DRAWINGS WILL BE REQUIRED TO FINALIZE THE FLOODPLAIN PERMIT. THE AS-BUILT DRAWINGS SHOULD INCLUDE LOCATION OF UNDERGROUND CONDUIT AND ELEVATION OF ELECTRICAL EQUIPMENT IN RELATION TO THE BASE FLOOD ELEVATION.



DETAILED VINYL FENCE LAYOUT
SCALE 1"=10'

SCALE IN FEET
0 30 60 90 150

811 Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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DESIGN FIRM #184006976-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

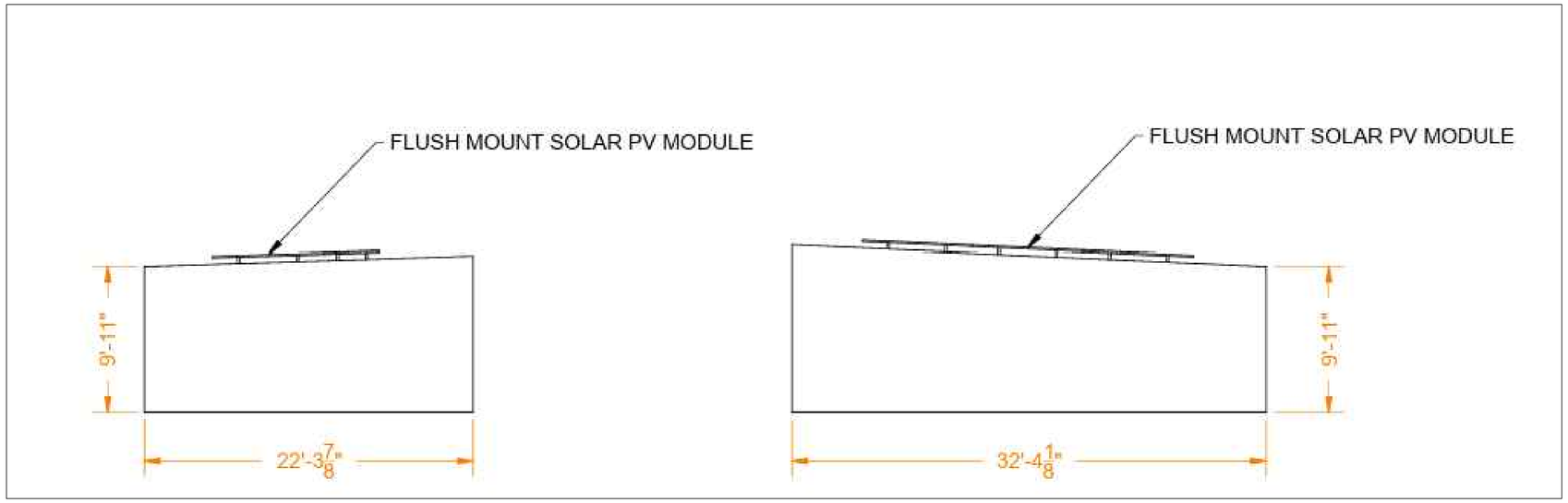
ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
SITE LAYOUT PLAN

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

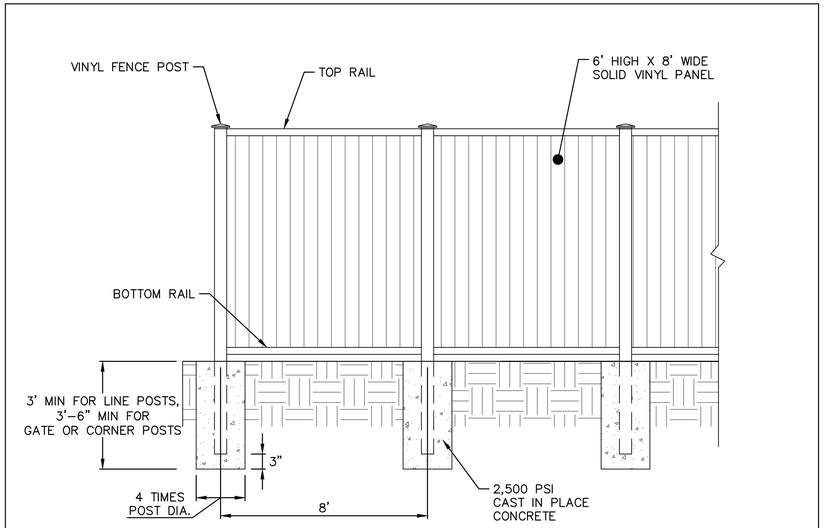
REVISIONS
2025/08/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
2026/02/23
REVISIONS PER VILLAGE
2026/03/27
REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C03.0



TYPICAL BUILDING SECTION

NOT TO SCALE



SOLID VINYL FENCE DETAIL

NOT TO SCALE

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SPECIAL USE PERMIT PLANS
STANDARD NOTES AND DETAILS

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
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REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C04.0

C:\BIM\25000704_SOLAR BETTER\PRELIM\MAPS\25000704-SHEETS_SPVD SHEETS - STANDARD NOTES AND DETAILS 3-27-2026 1:59 PM ALEX WORK

PANEL MARKS: **7000 S CICERO AV, BE**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	600A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	22 KAIC SC FULLY RATED
MATERIAL:	ALUMINUM BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR.	Bottom
TYPE:	Breaker
AMPS/SENSOR:	600A/-
CATALOG NO.:	XT5NU360BBYNDB0XXX
POLES:	3
LUGS:	Horiz. XT5 (2) 2/0-500 mcm, No Feed Through Lugs
ACCESSORIES:	2 Aux 250V AC/DC
ACCESSORIES:	Bell Alarm
ACCESSORIES:	110-240V AC / 110-250V DC ShuntTrip
ACCESSORIES:	TMA

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
16	16

OPTIONS INCLUDED

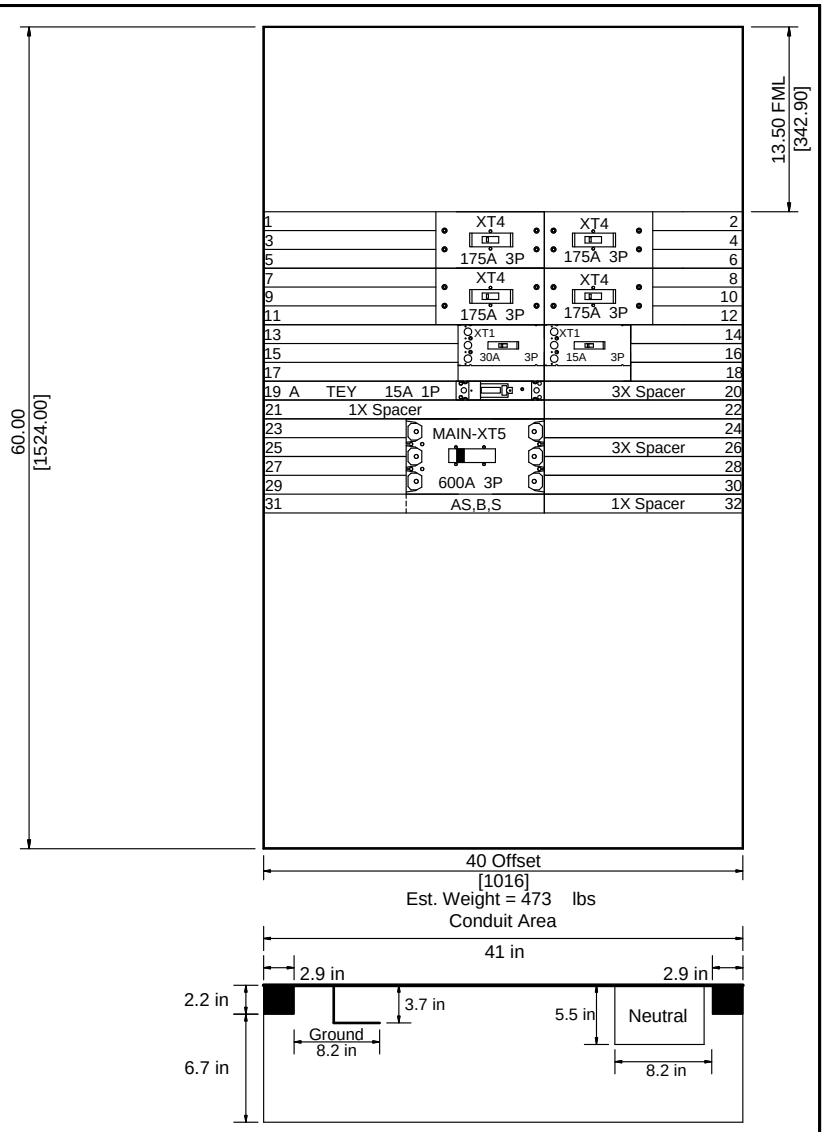
QTY	DESCRIPTION
1	Nameplates
1	Aluminum Bus Heat Rated
1	Grnd-Box bonded

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER6040R	Enclosure
1	GC40F16NNA	Gutter Covers
1	FT40S00135	Front 1 of 2
1	FT40S00205	Front 2 of 2

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG10AL	Ground
1	IN1606NN3H1	Interior Bus Stack
1	NL12I0NSTNDAL	Neutral
0	MAINXHX55	Main Code - Not a Catalog Number
1	75C141109P109	Nameplates
1	IF1640F	Interior Frame
1	IL40F	Lifting Kits
1	SR01BB	1X Blank only
1	SR01BF	1X Filler & Blank
2	SR03BB	3X Blank only
1	SR1XBF	1 XT1 Mtg Kit, Wide
1	SR1XBR	1 XT1 Mtg Kit, Narrow
1	SR01BF	Acc Filler



PANEL INFORMATION	
INTERNAL DIMENSIONS	60"X42"X11"
NOTES	
EXTERNAL DIMENSIONS	61"X43.5"X16.7"

1. FML - FRAME MOUNTING LOCATION.
2. DRAWING NOT TO SCALE.
3. DIMENSIONS ARE IN INCHES[mm].

NEUTRAL CAN BE MOUNTED IN ANY CORNER

FACTORY AUTO-LAYOUT. THE LAYOUT IS NOT SPECIFIED, THE FACTORY MAY CHANGE THE LOCATION OF SOME OF THE BREAKERS. NEUTRAL ARE PRESSURE LUGS.

PROJECT NAME : 15x Wave 3 IL MCB Panelboards		PANEL ID: neXT Panel Assembled Interior	PRODUCT NAME: *ReliaGear neXT PANELBOARD*	DRAWING NO:
CUSTOMER: WESCO DISTRIBUTION INC. HAUPPAUGE		CREATED BY: Schultz, William		ITEM NO: 1
		DATE: 05/28/2024 19:50:47		MARKS: 7000 S CICERO AV, BE
		REVISION NO.		QUOTE NO: UAV-00035419
				SHEET: 1

6/9/2024 3:18:59 PM SAP ORDER:

neXT Device Information

X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
Main	XT5NU360BBYNDB0XXX	600	-	TMA	3	A,B,C	(2) 2/0 AWG - 500 MCM	1,2,3
1	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
2	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
7	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
8	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
13	XT1NU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1NU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYADEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

1 Device is furnished with 2 Aux 250V AC/DC
2 Device is furnished with Shunt trip 110-240V AC/110-250V DC
3 Device is furnished with Bell alarm

PANEL MARKS: **7000 S CICERO AV, BE**

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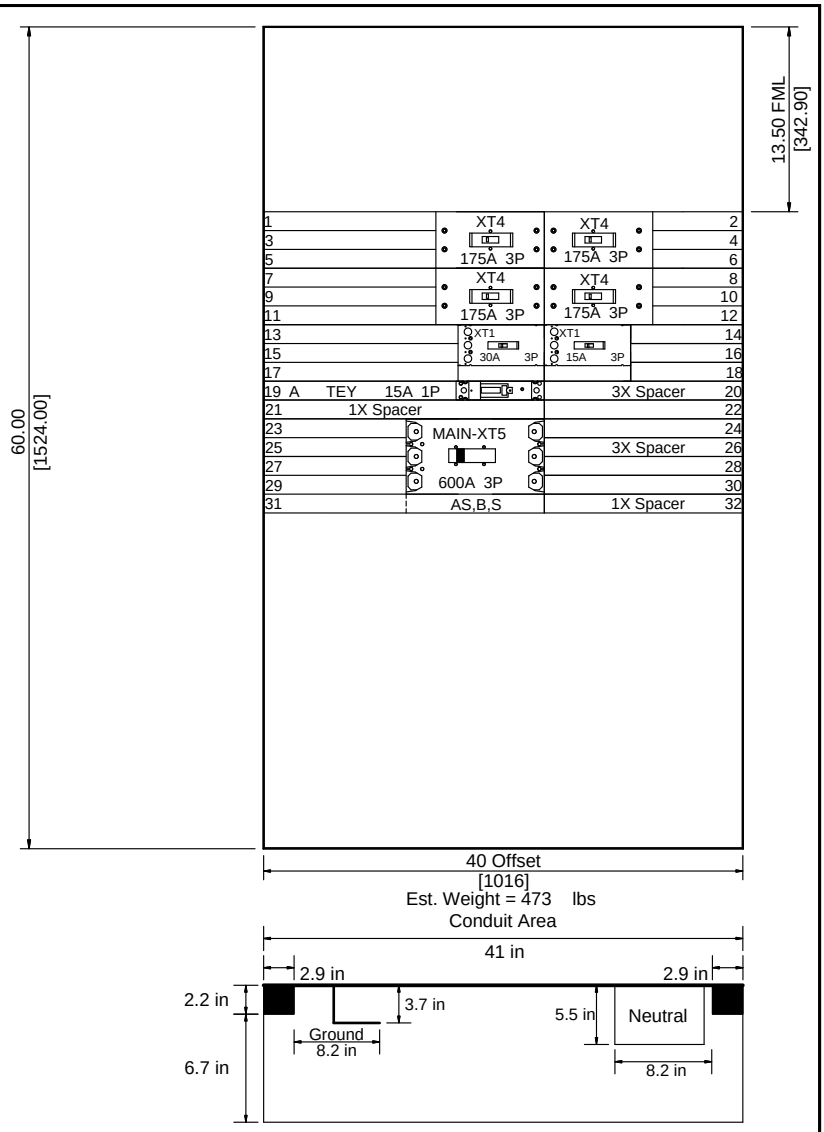

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6/9/2024 3:18:59 PM		SAP ORDER:		SHEET: 1

neXT Device Information

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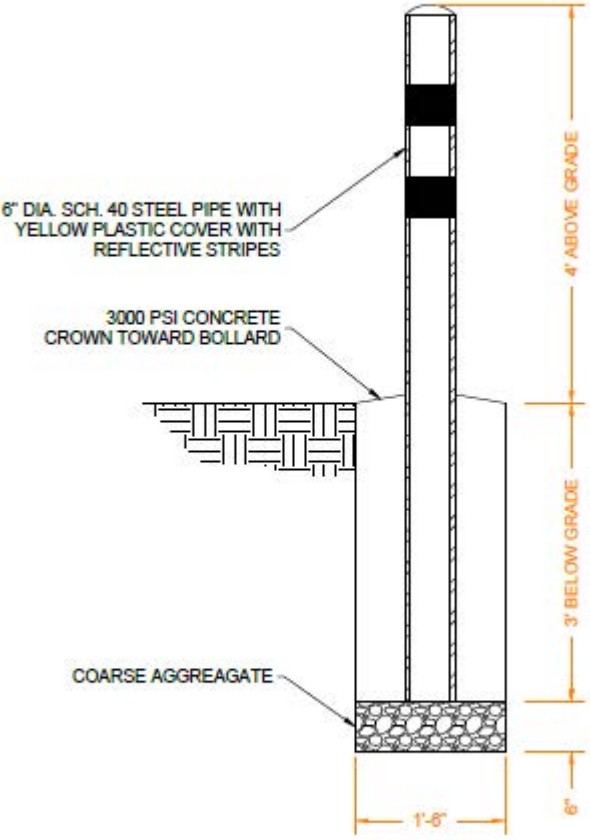
2	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
7	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
8	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
13	XT1NU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1NU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYADEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

1 Device is furnished with 2 Aux 250V AC/DC
2 Device is furnished with Shunt trip 110-240V AC/110-250V DC
3 Device is furnished with Bell alarm



2 / E12 BOLLARD DETAILS
SCALE: 1:12

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

ACAD

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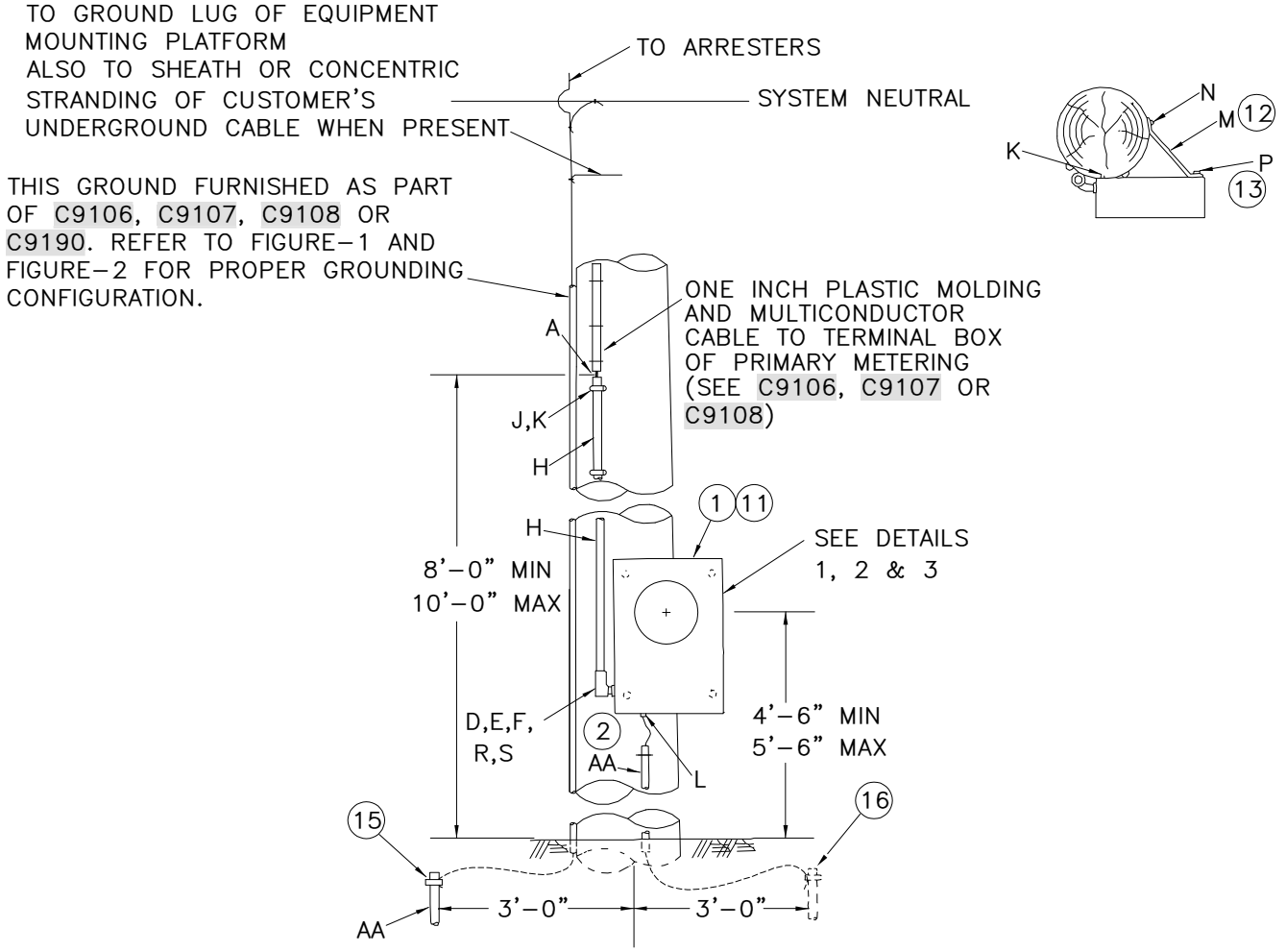
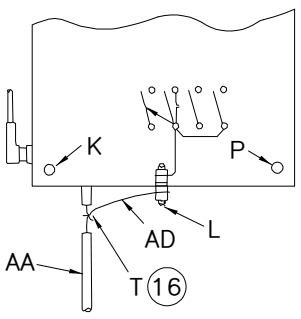
11-18-16
C9105
PAGE 2 OF 11

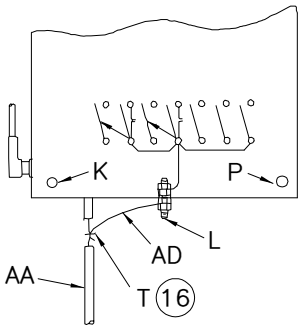


C9105.1_

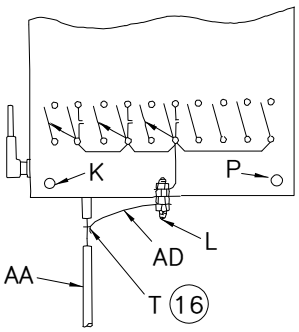
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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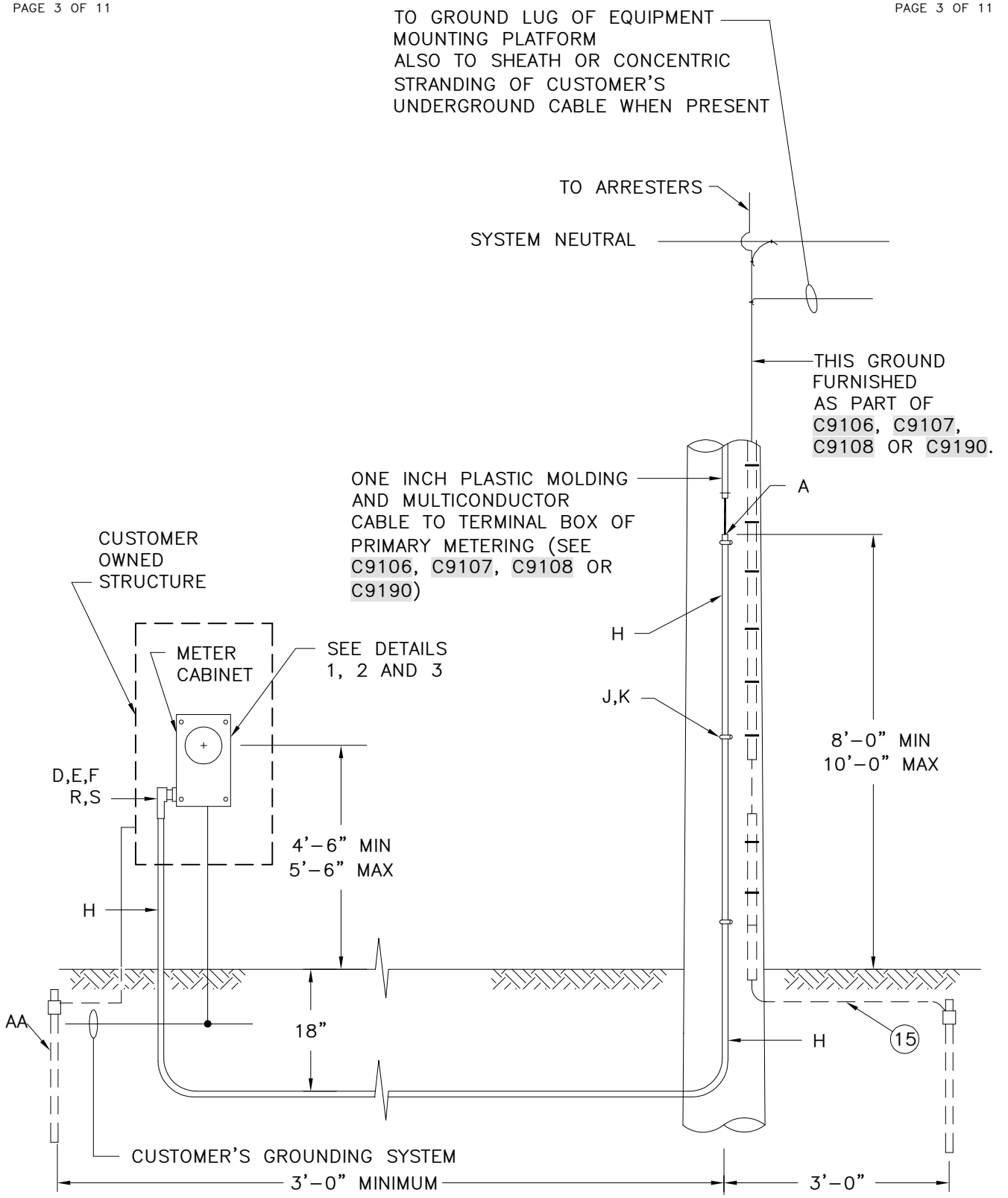
C9105
PAGE 3 OF 11



C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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C9105
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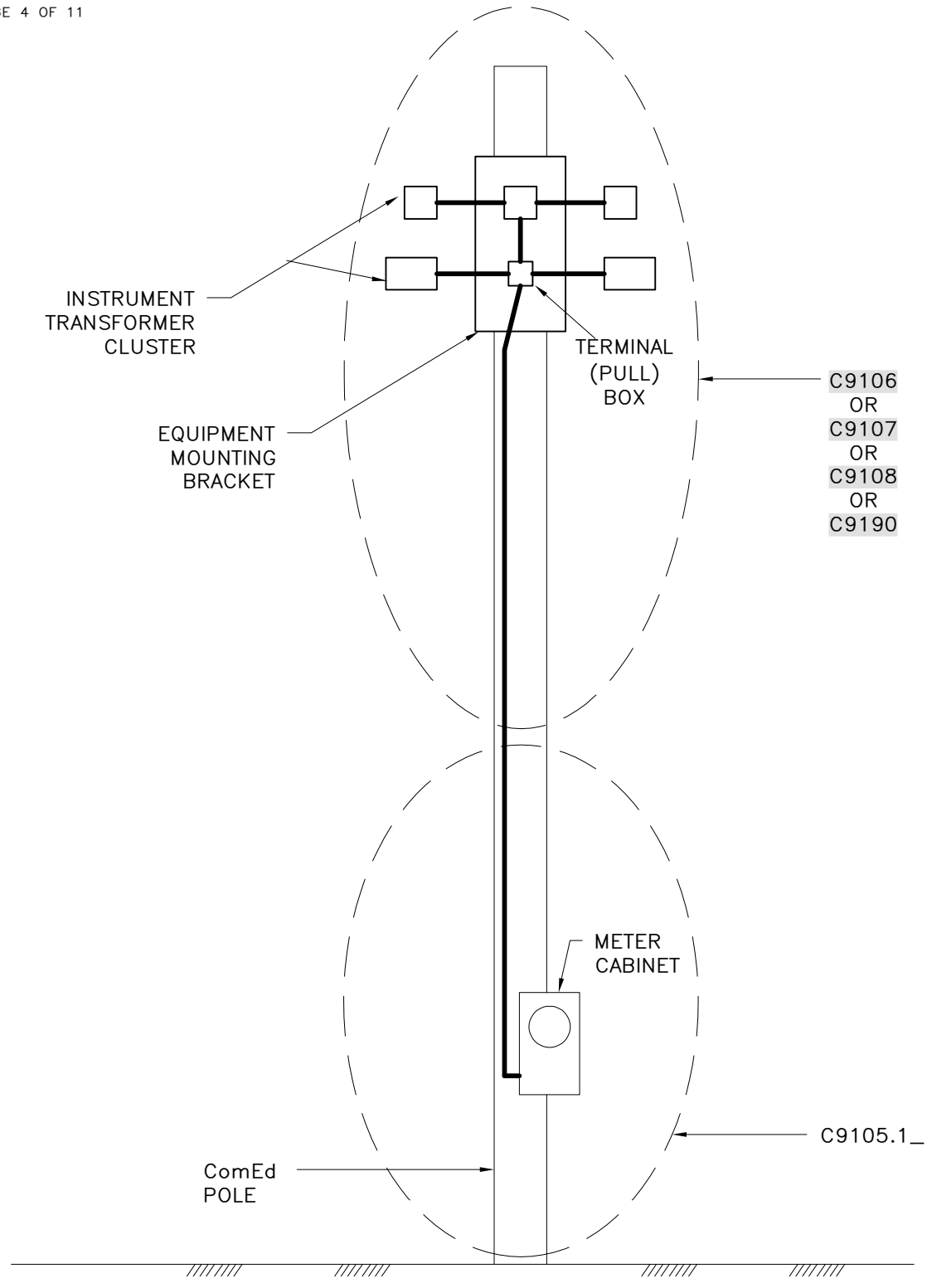

DETAIL-4

METER ON PRIMARY METERING POLE

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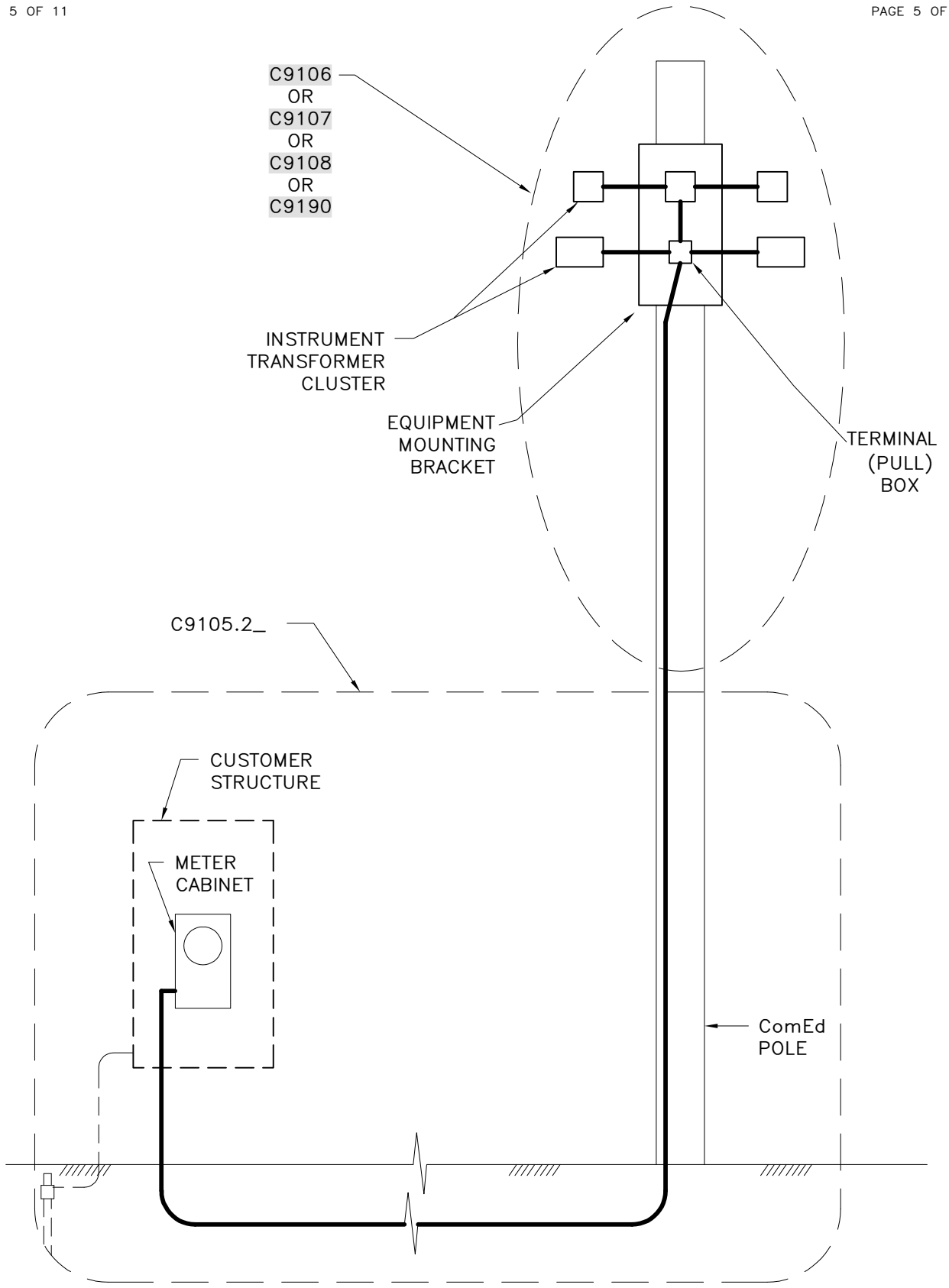

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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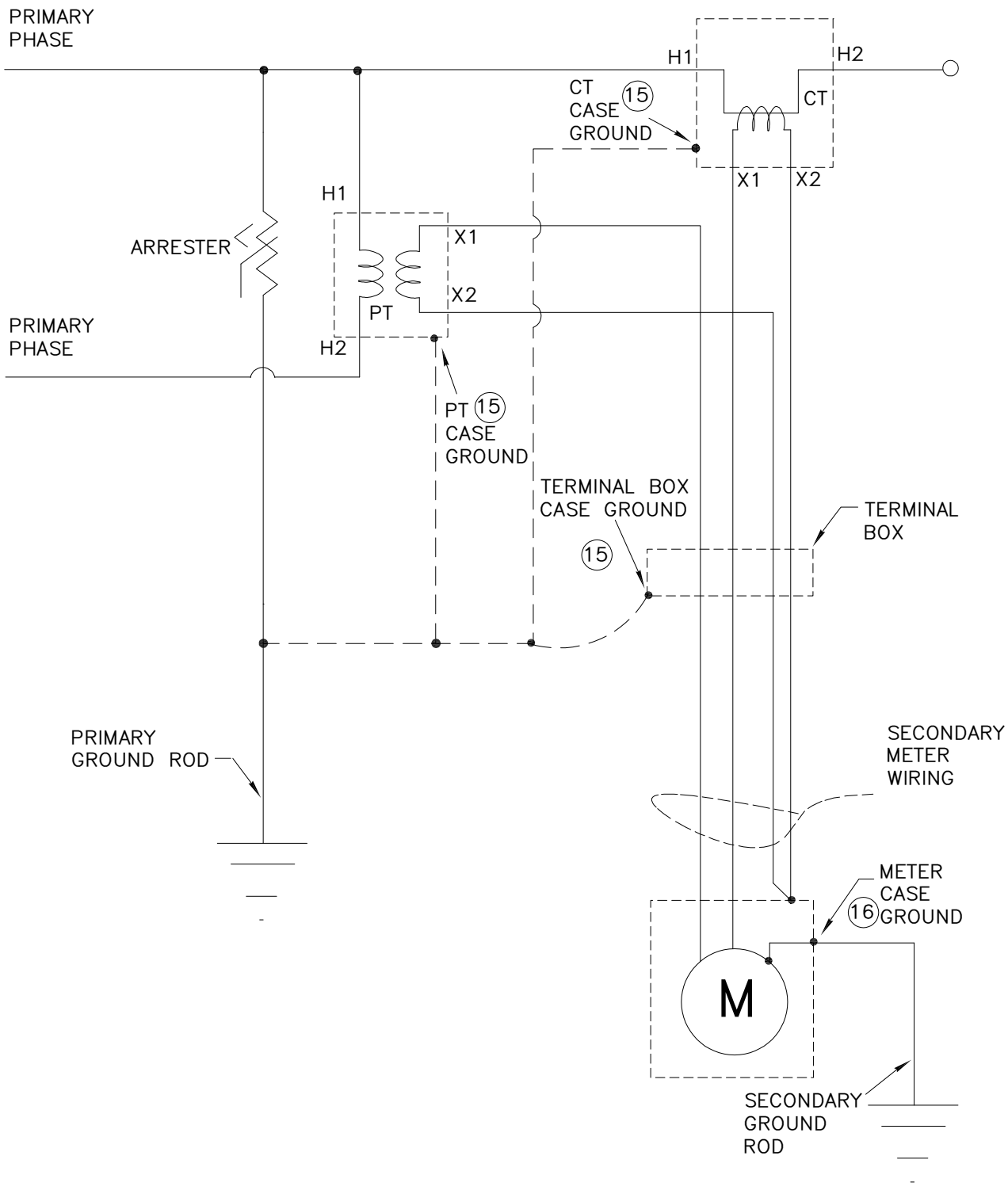

FIGURE-1

3-WIRE GROUNDING

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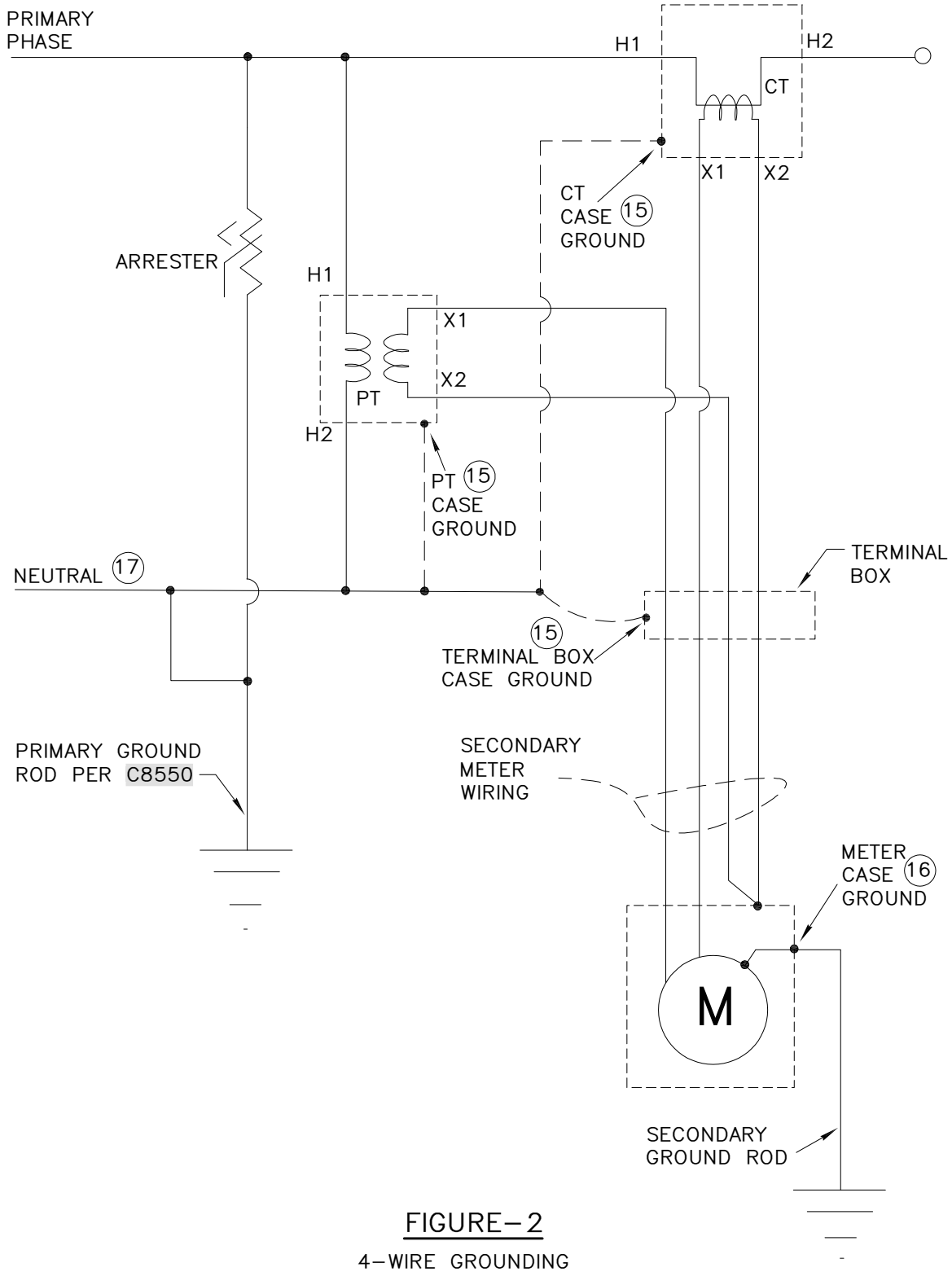

FIGURE-2

4-WIRE GROUNDING

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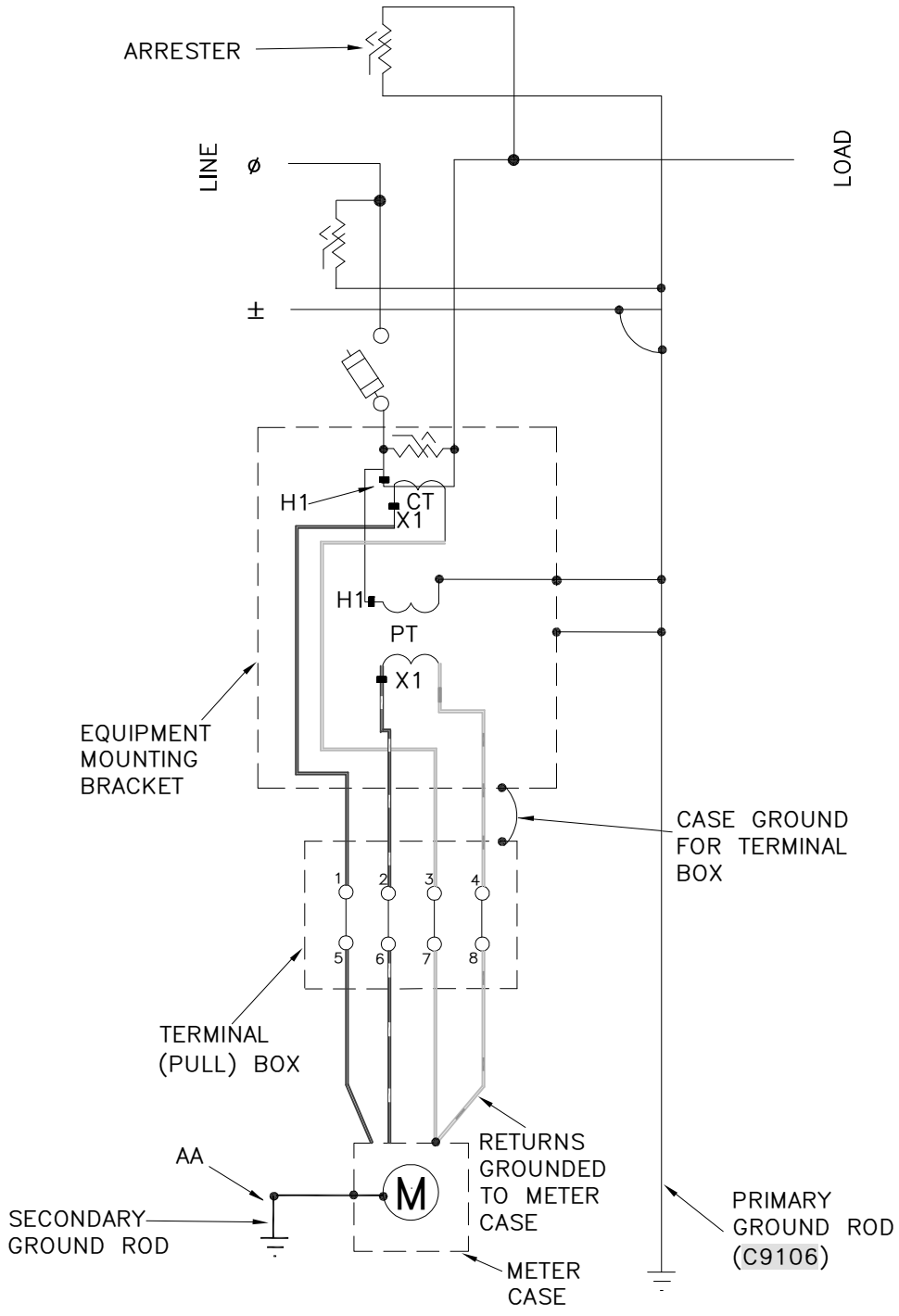

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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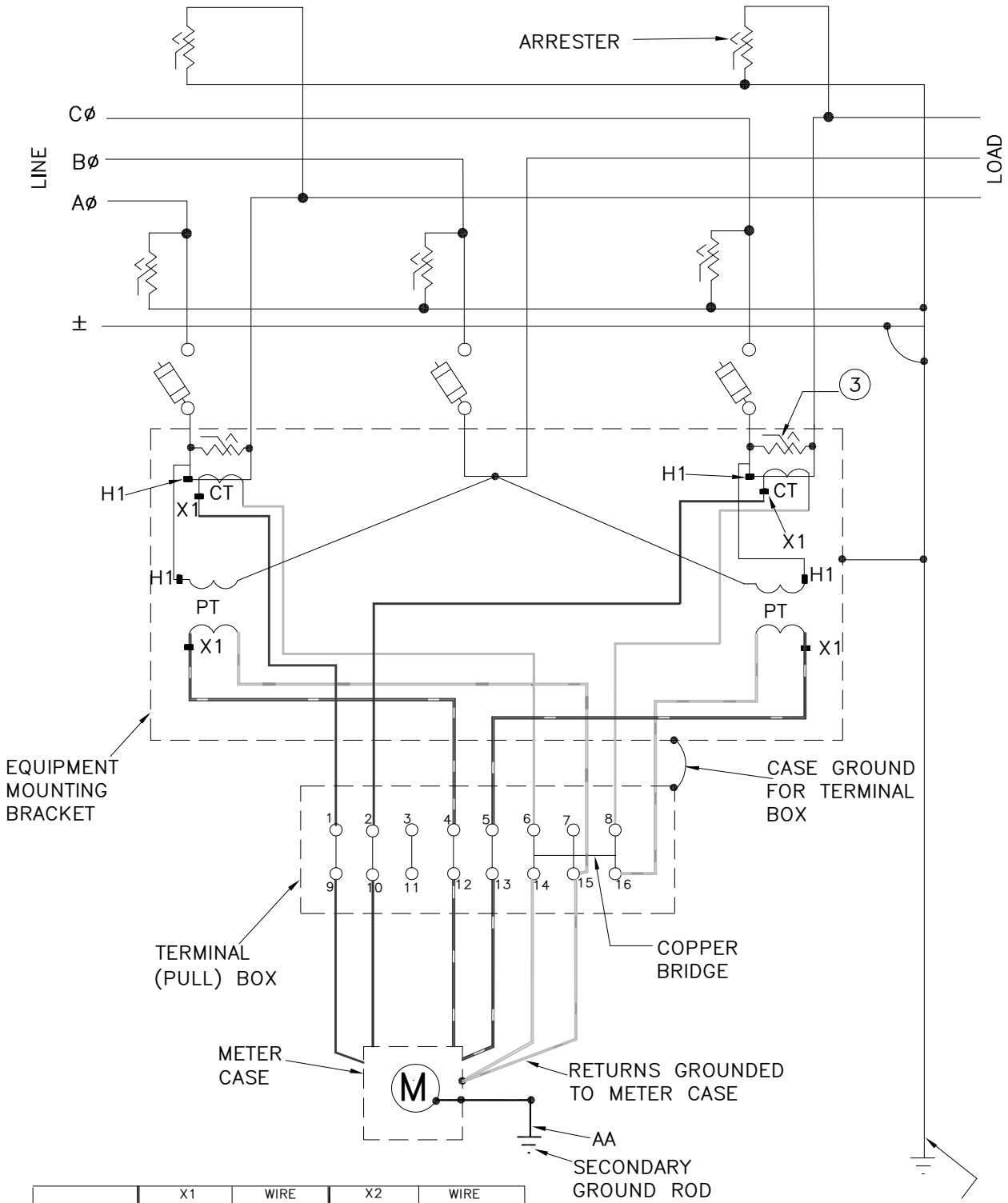

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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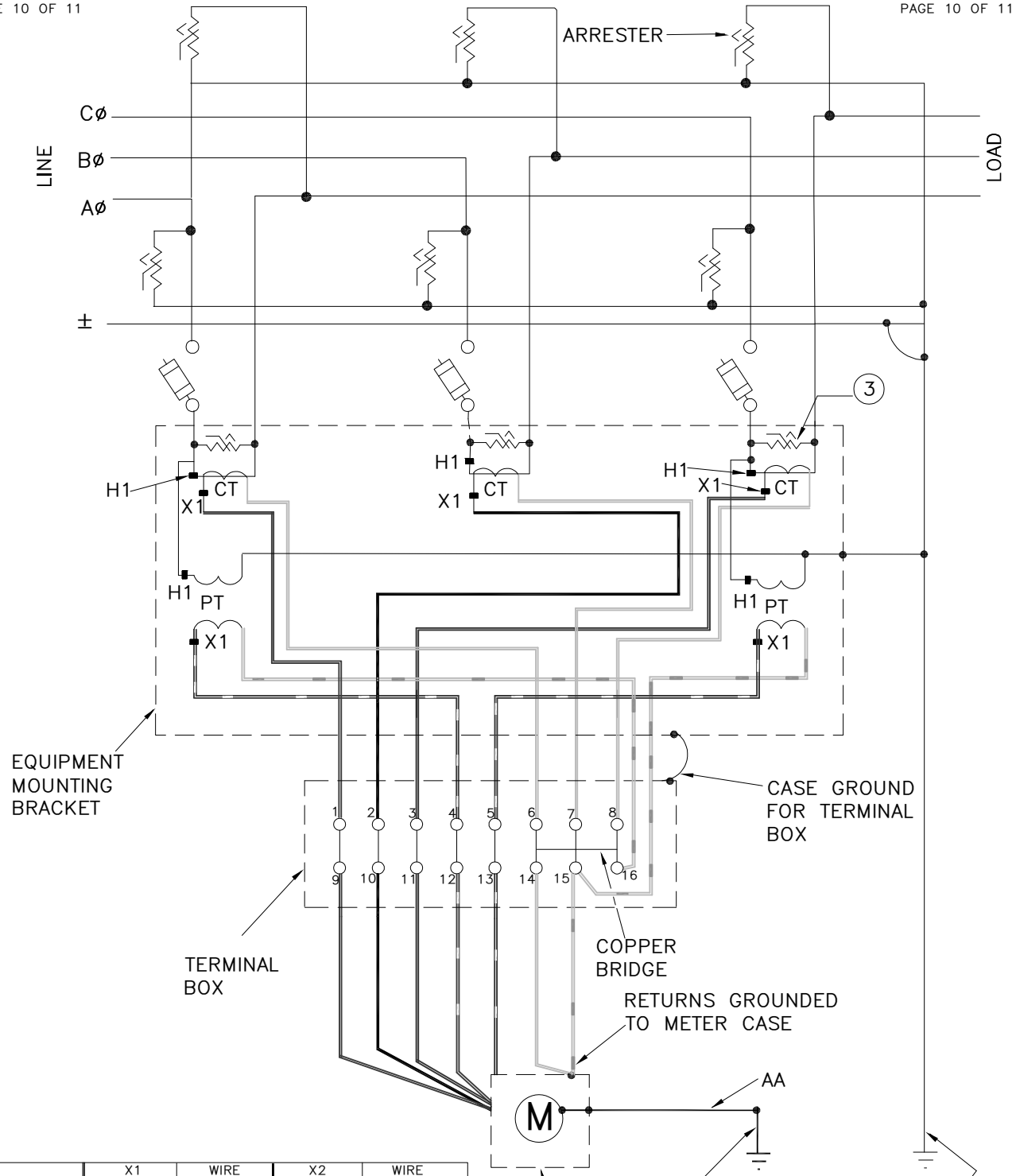

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
AØ CT	1	RED	6	WHITE
BØ CT	2	BLACK	7	WHITE
CØ CT	3	BLUE	8	WHITE
AØ PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
CØ PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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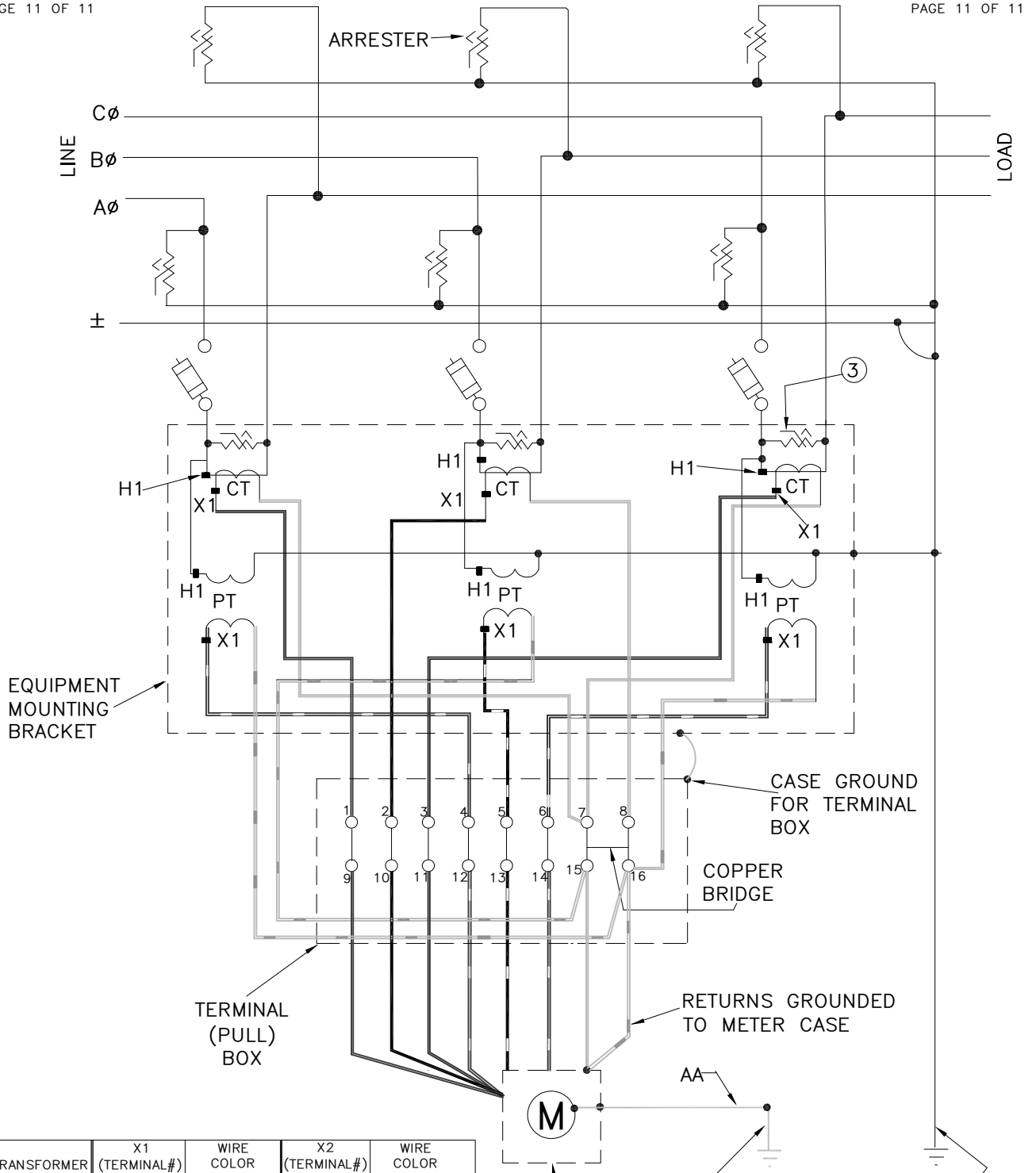

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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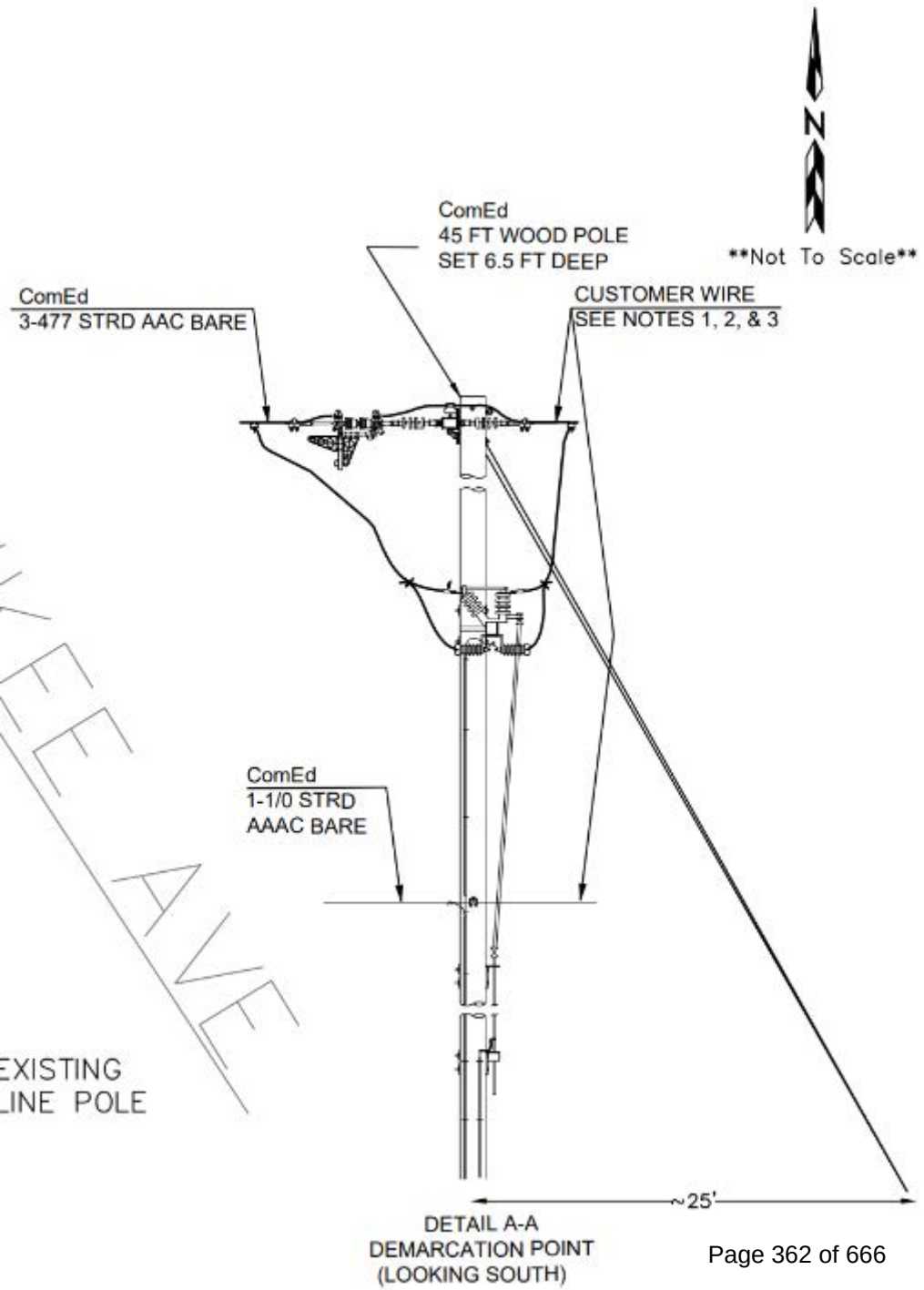

DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



Heavy Duty Safety Switch

DH367NRK

UPC:782113639277

Dimensions:

- **Height:** 12.38 IN
- **Length:** 57.5 IN
- **Width:** 27.5 IN

Weight:210 LB

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** Single-Throw
- **Amperage Rating:** 800A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class L fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Three-pole
- **Number Of Wires:** Four-wire
- **Product Category:** Heavy Duty, Fusible with neutral
- **Voltage Rating:** 600V
- **Max Hp Rating:** 500 at 480 Vac TD 3 Ph, 500 at 600 Vac TD 3 Ph

Supporting documents:

- Eatons Volume 2-Commercial Distribution
- Eaton Specification Sheet - DH367NRK

Certifications:

- UL Listed

Product compliance: No Data

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Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

INVERTER



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	**SE80KUS**	**SE50KUS**	**SE100KUS**	**SE110KUS**	**SE120KUS**	**UNITS**
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					°F / °C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

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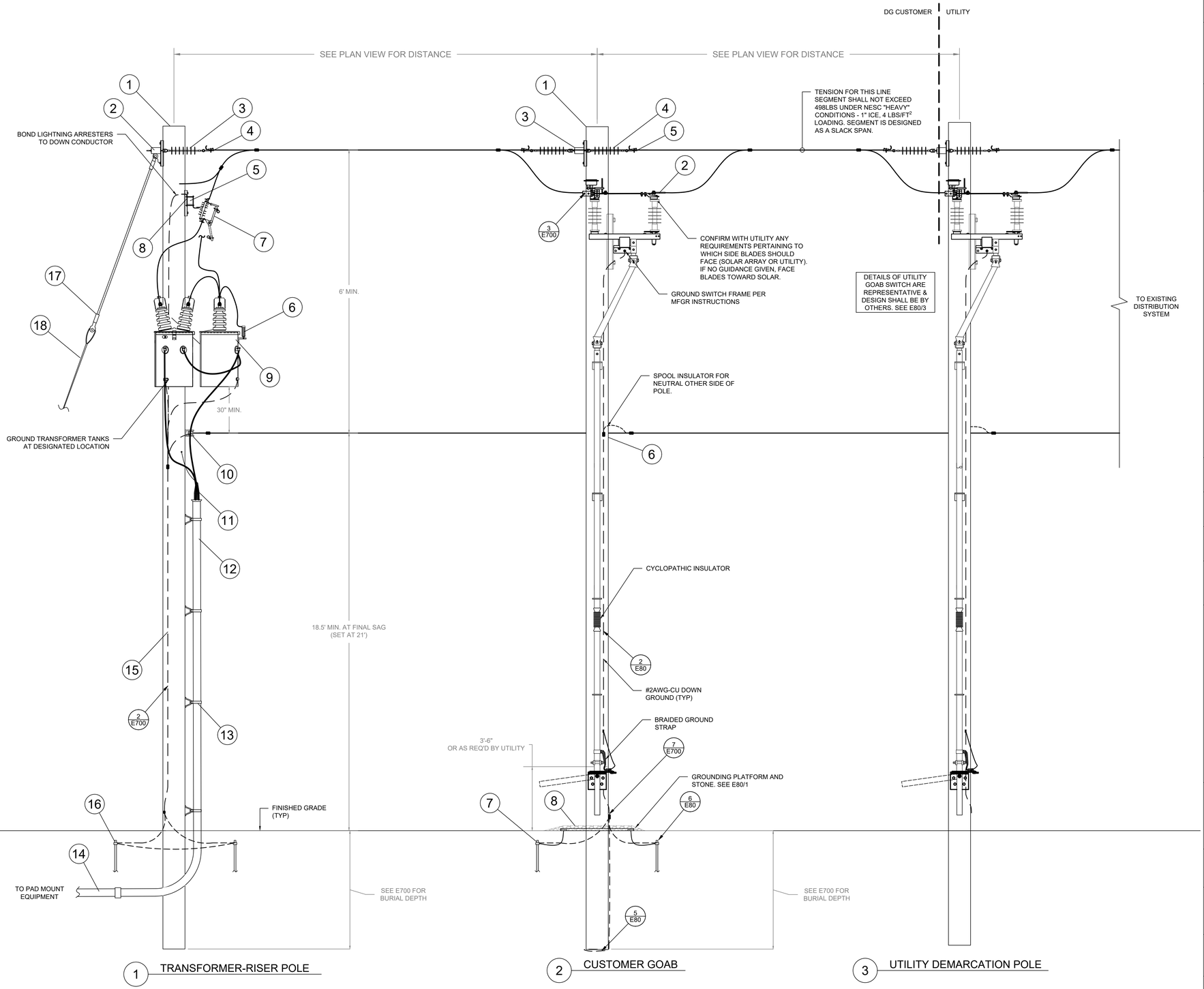
RISER POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	Dead End Cross Arm	8' Fiberglass
3	3	Dead End Insulator	15kV Polymer
4	3	Strain Clamps	Coordinate with Supply Conductors; See table
5	2	Tangent Cross Arm	8' Fiberglass
6	3	Surge Arrester w/ Wildlife Covers	Riser Class. See line diagram for MCOV rating.
7	3	Polymer Fused Cutout with mounting hardware	100A body, see line diagram for ampere rating and speed.
8	3	Cutout Bracket	Cutout bracket for crossarm
9	3	Liquid Filled Pole Mount Transformers	KVA varies by site. Provide wildlife protectors if not furnished with transformer.
10	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
11	1	Cable Grip	Basket style cable grip--attach to pole with lag bolt to support conductors
12	20'	Schedule 80 PVC Conduit	Note: parallel conductors must be separated unless specifically allowed.
13	As needed	Conduit standoff supports	Coordinate with riser conduit size and quantity.
14	As needed	Schedule 40 PVC Conduit	After 90° fitting - to pad mounted equipment.
15	As needed	#2AWG-CU Solid	Ground/Down Conductor
16	2	Ground Rod	5/8" x 10' Coppperweld
17	1	Fiberglass guy strain	10' or as needed to extend past exposed live parts
18	As needed	Guy Wire	3/8" EHS Galvanized with preform grips
19	1	Guy Wire Guard	Yellow, 8' minimum
20	1	Guy Anchor	As required for loading and soil conditions. 10" dia. Helix, 1-1/4" x 96" rod min.
	As needed	Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required

GOAB POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	GOAB Switch	15kV, 600A, Horizontal Configuration, Ground Operator - Torsional, 1.5" OD Pipe Control
3	1	Dead End Cross Arm	8' Fiberglass
4	6	Dead End Insulator	15kV Polymer
5	6	Strain Clamps	Coordinate with Supply Conductors
6	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
7	2	Ground Rod	5/8" x 10' Coppperweld
8	1	Galvanized Steel Grate & #2 Stone	See detail Sheet E700
	As needed	ACSR Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	6	Compression Fittings for GOAB	2-hole NEMA. Coordinate with Supply Conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	#2AWG-CU Solid	Ground/Down Conductor
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required
	1	Padlock for LOTO	If required by utility/owner
	Lot	Labels	"PHOTOVOLTATIC (SOLAR) AC DISCONNECT", Site Plan Label, others as required by utility.



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EXACTUS ENERGY
NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
OF ILLINOIS
Exp. 11/30/25

TYPICAL MV ELEVATIONS ILLINOIS PORTFOLIO

DRAWN BY
JS

CHECKED BY

DATE
23-Sep-2024

DRAWING LEVEL
ISSUED FOR CONSTRUCTION

REV.	DATE	DRAWING LEVEL
A		
B		
C		
D		
E		

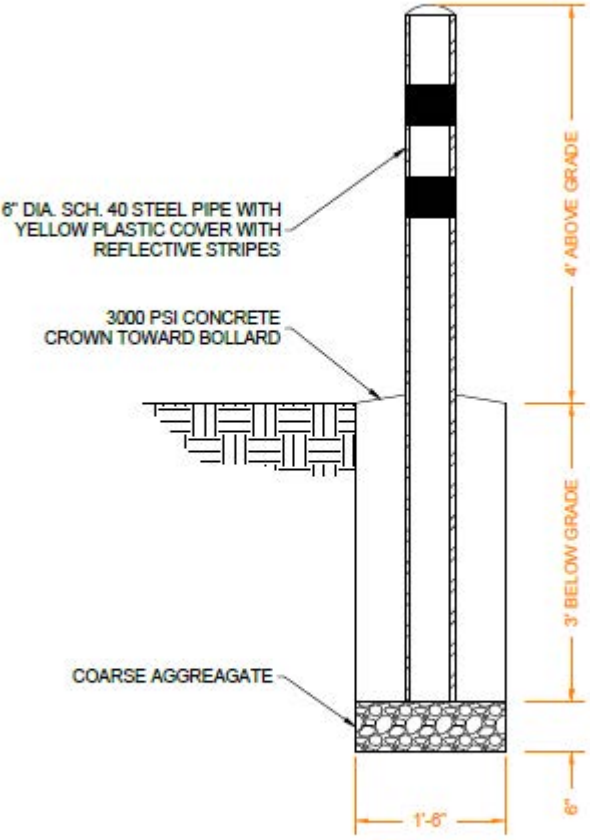
SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
NTS

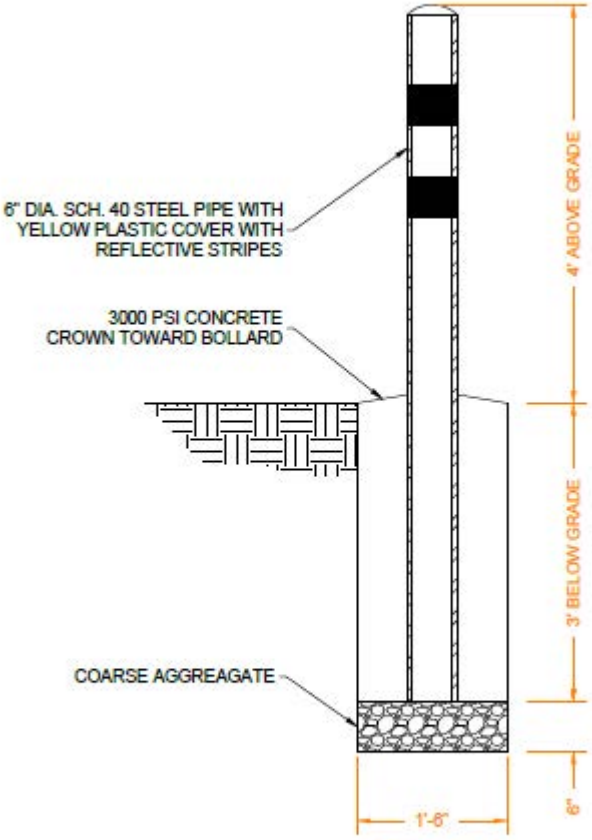
SHEET TITLE

E81

MEDIUM VOLTAGE ELEVATIONS



2 / E12 BOLLARD DETAILS
SCALE: 1:12



2 / E12 BOLLARD DETAILS
SCALE: 1:12

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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C9105
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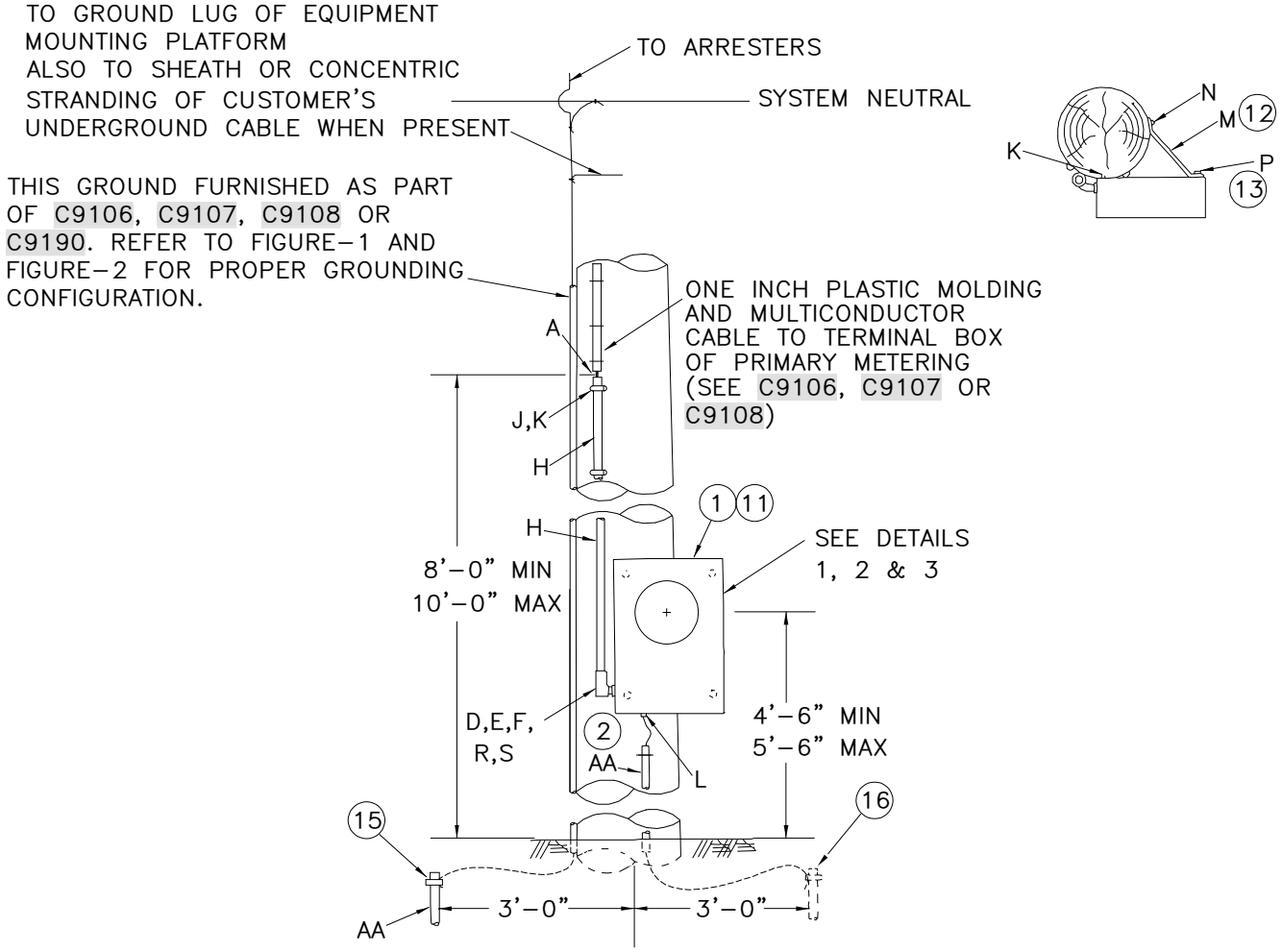
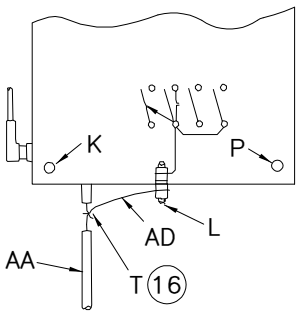
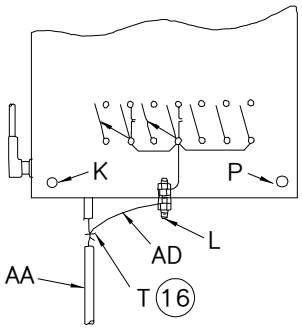


C9105.1_

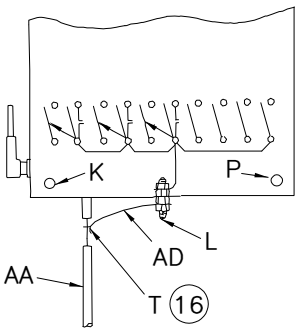
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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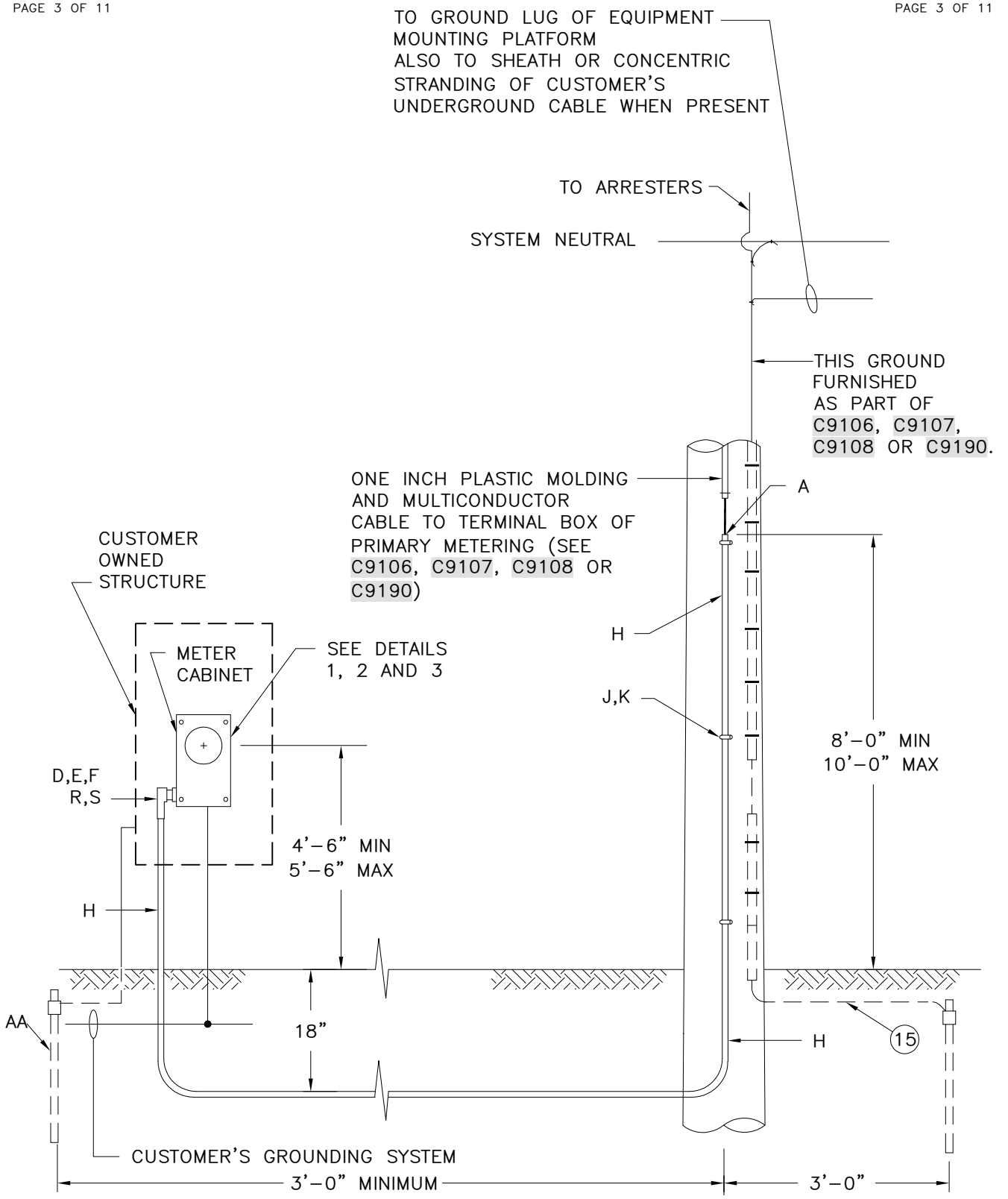

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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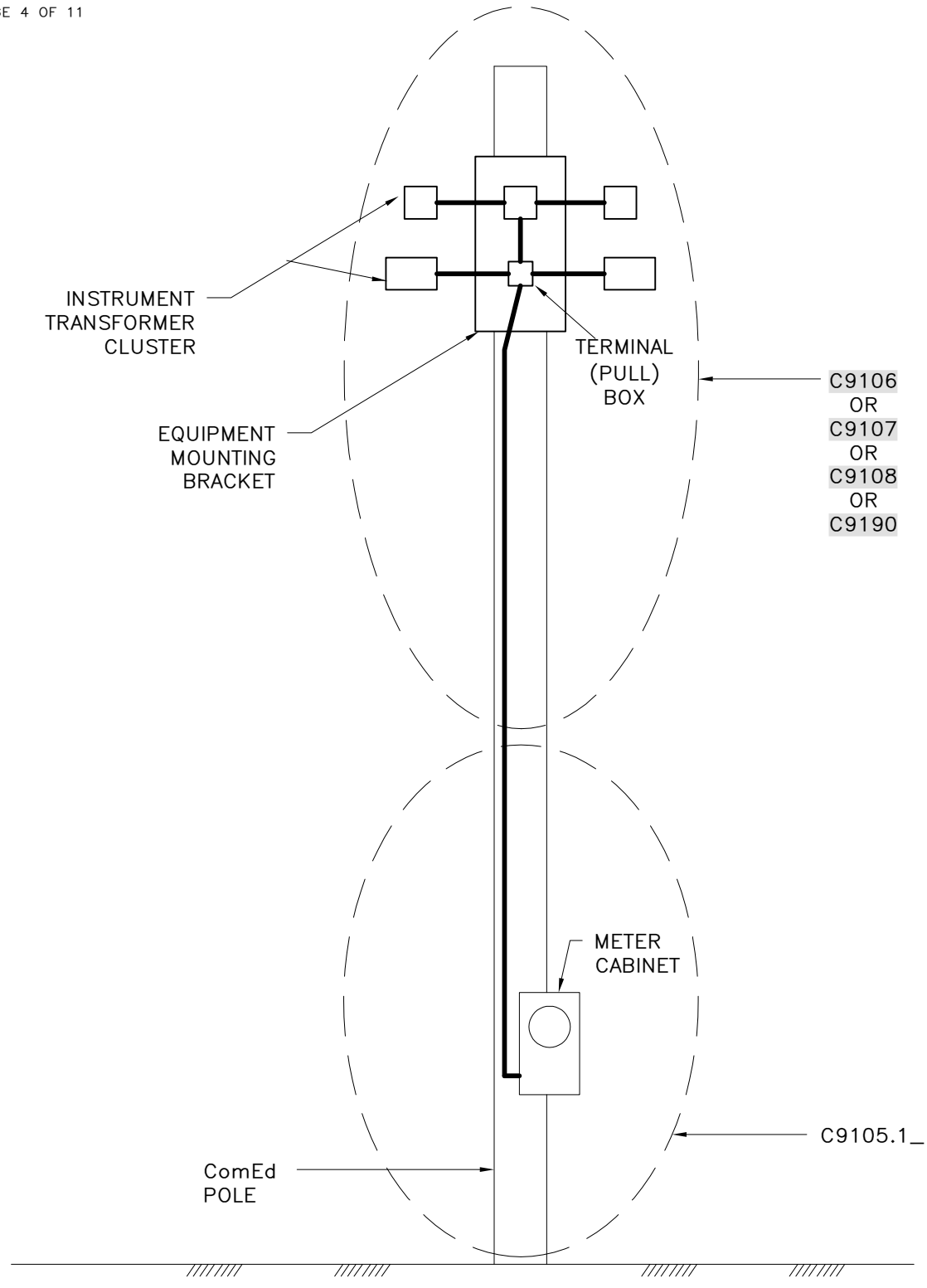

DETAIL-4

METER ON PRIMARY METERING POLE

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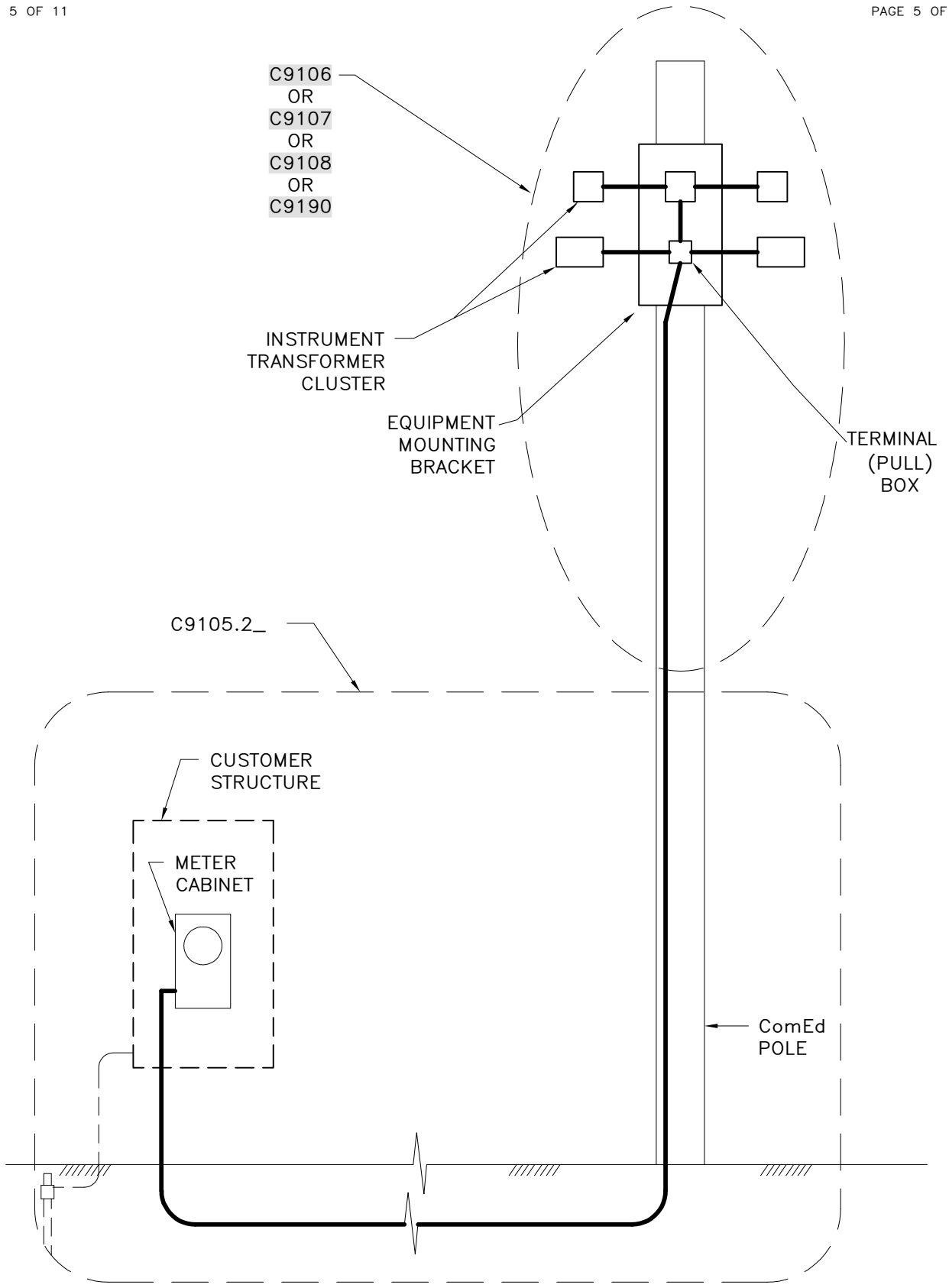

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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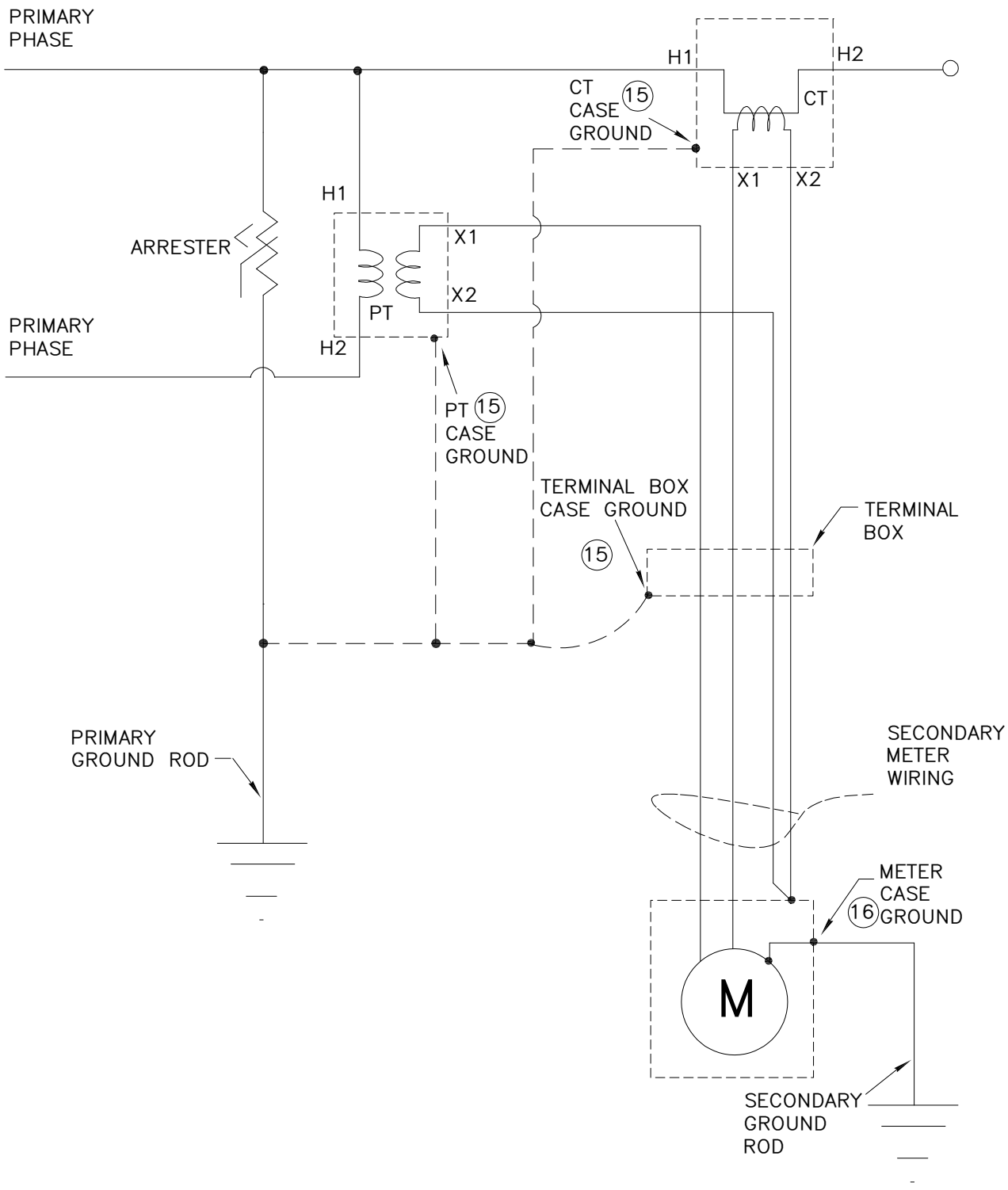

FIGURE-1

3-WIRE GROUNDING

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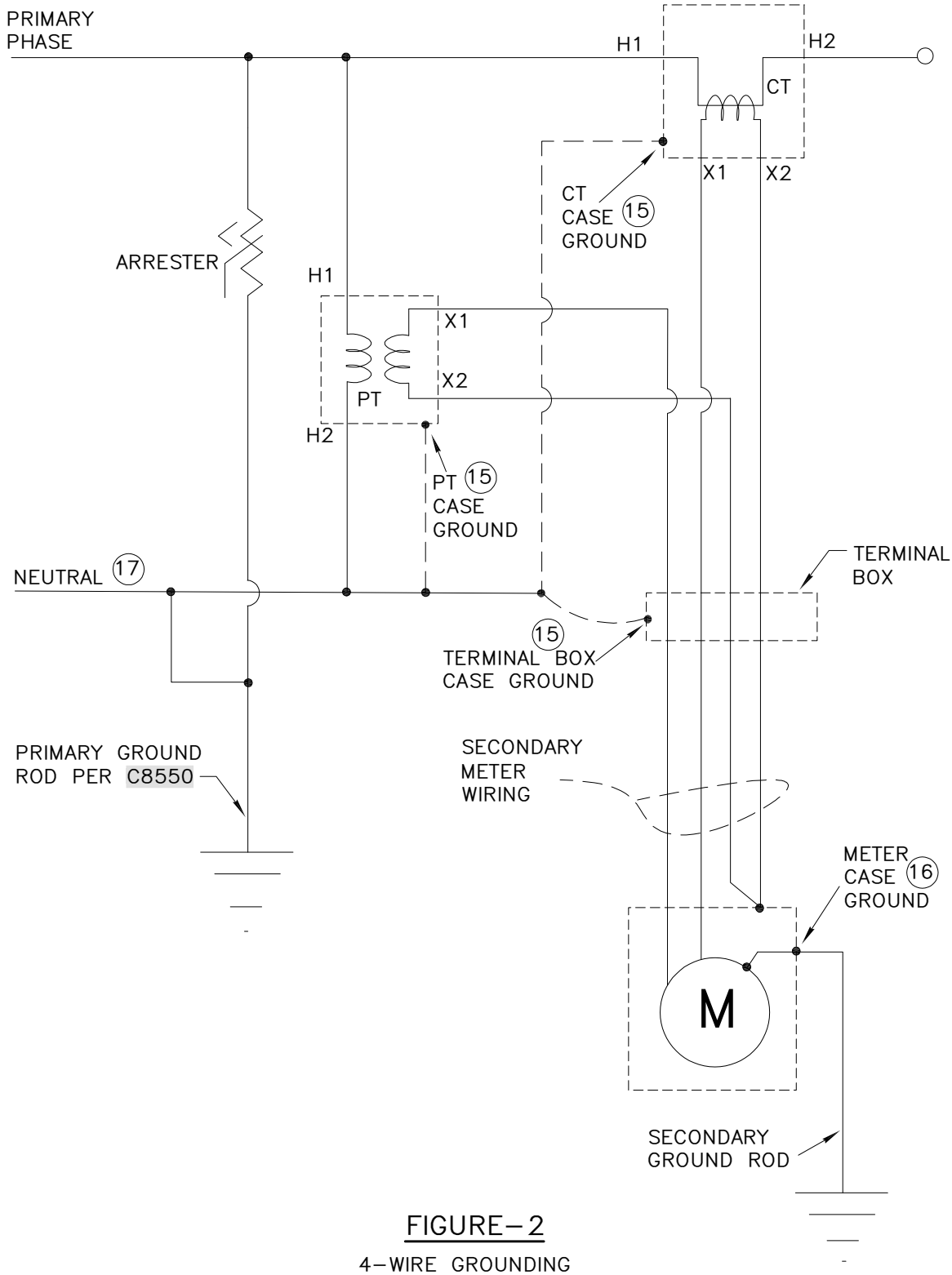

FIGURE-2

4-WIRE GROUNDING

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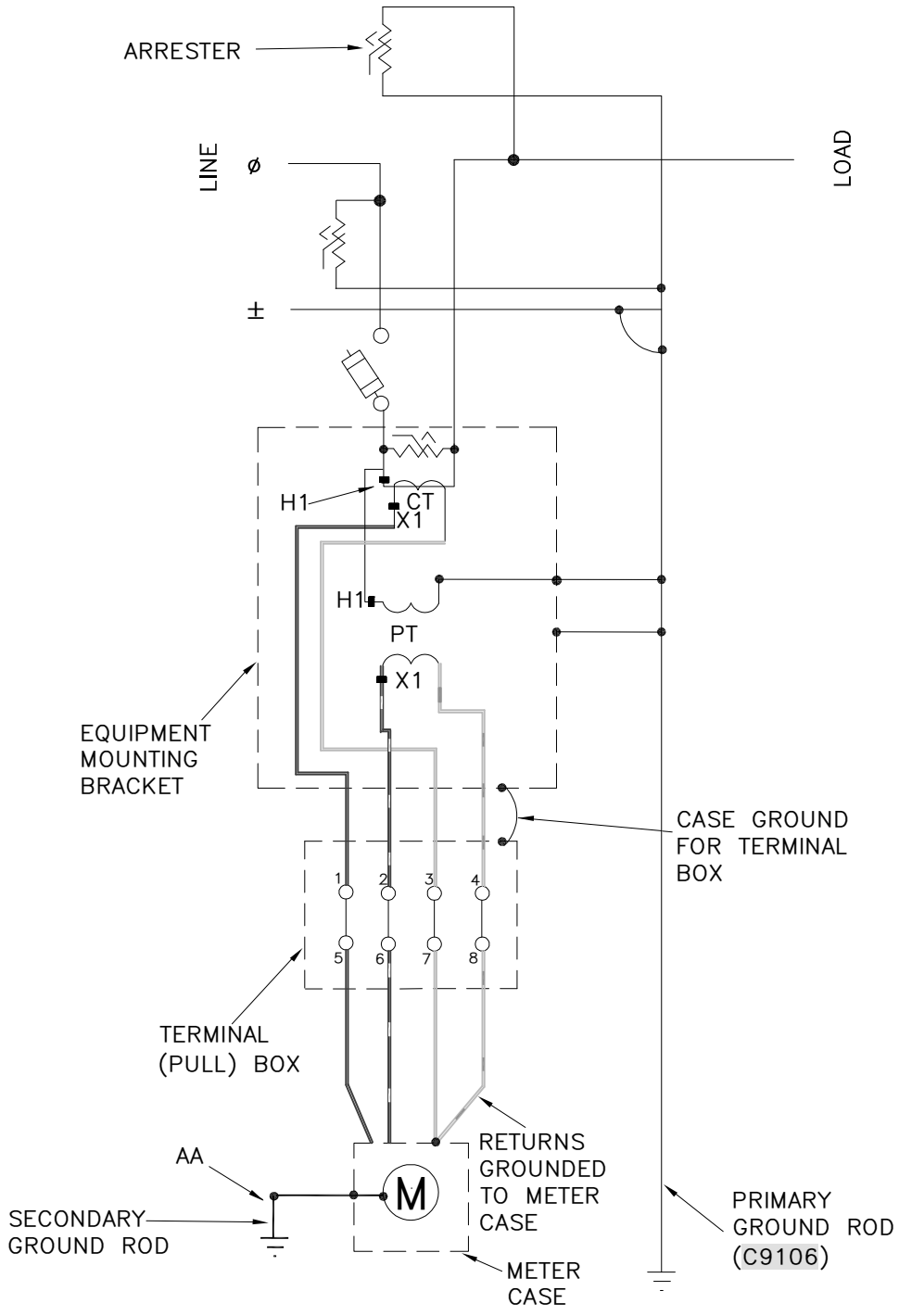

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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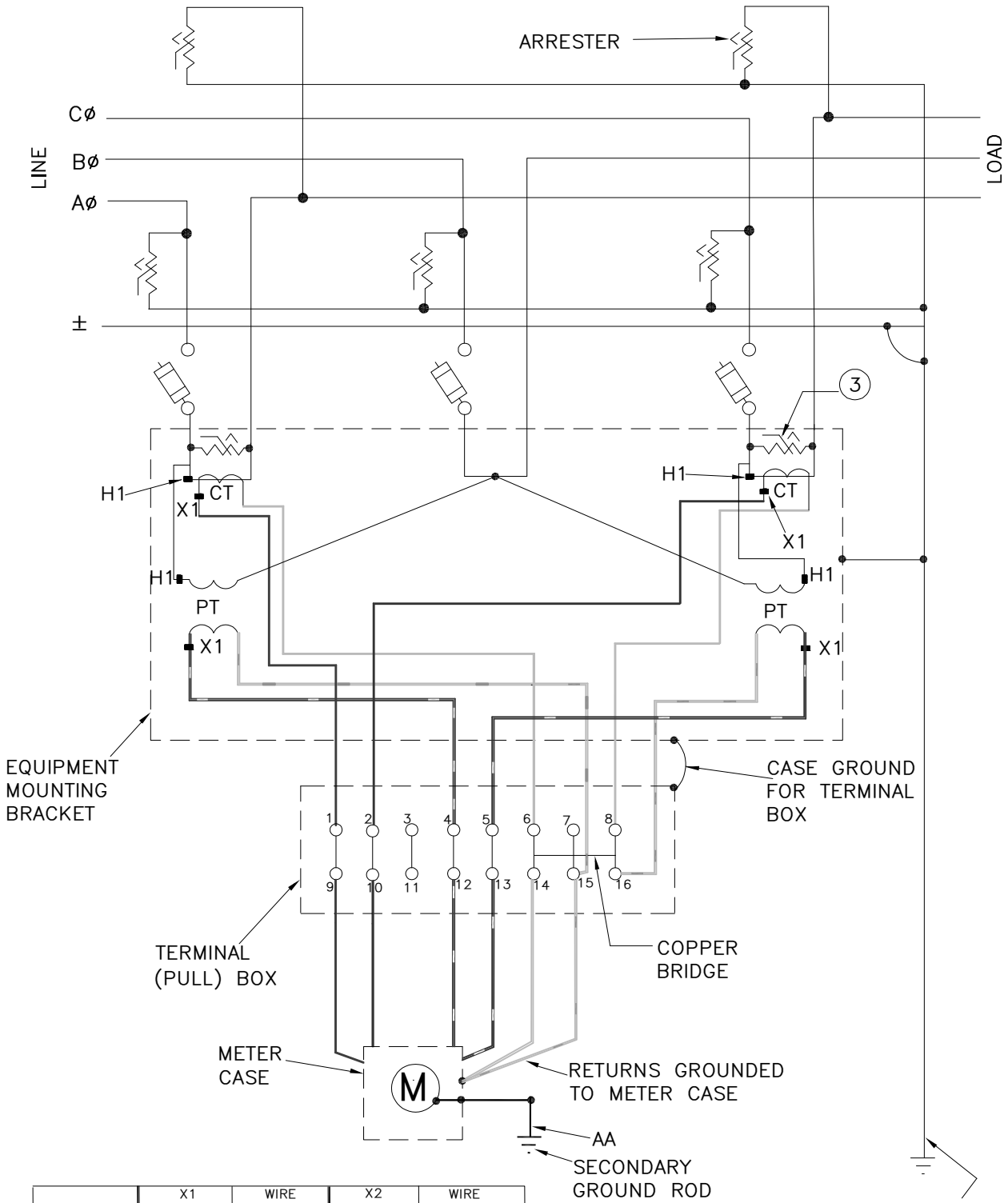

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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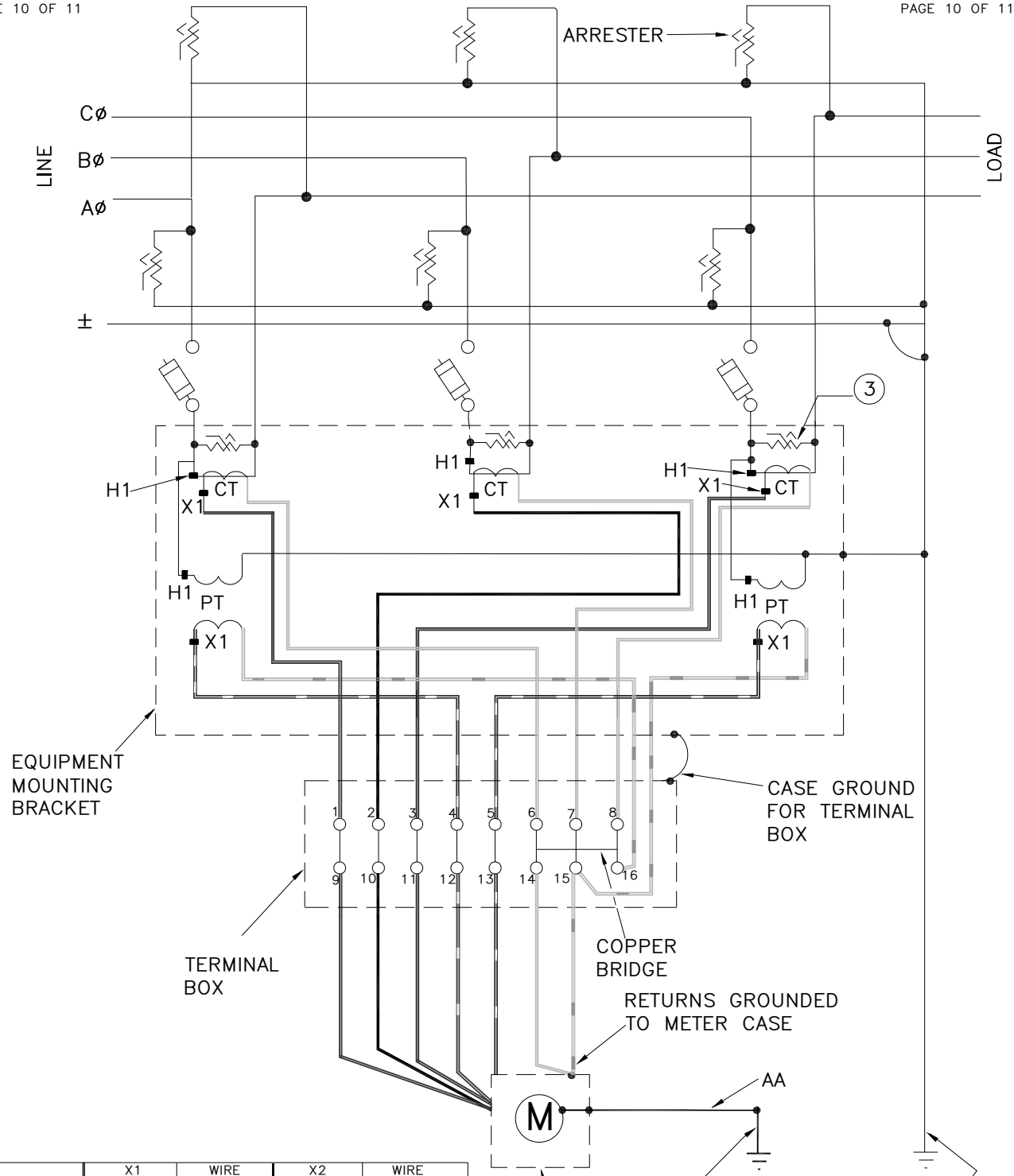

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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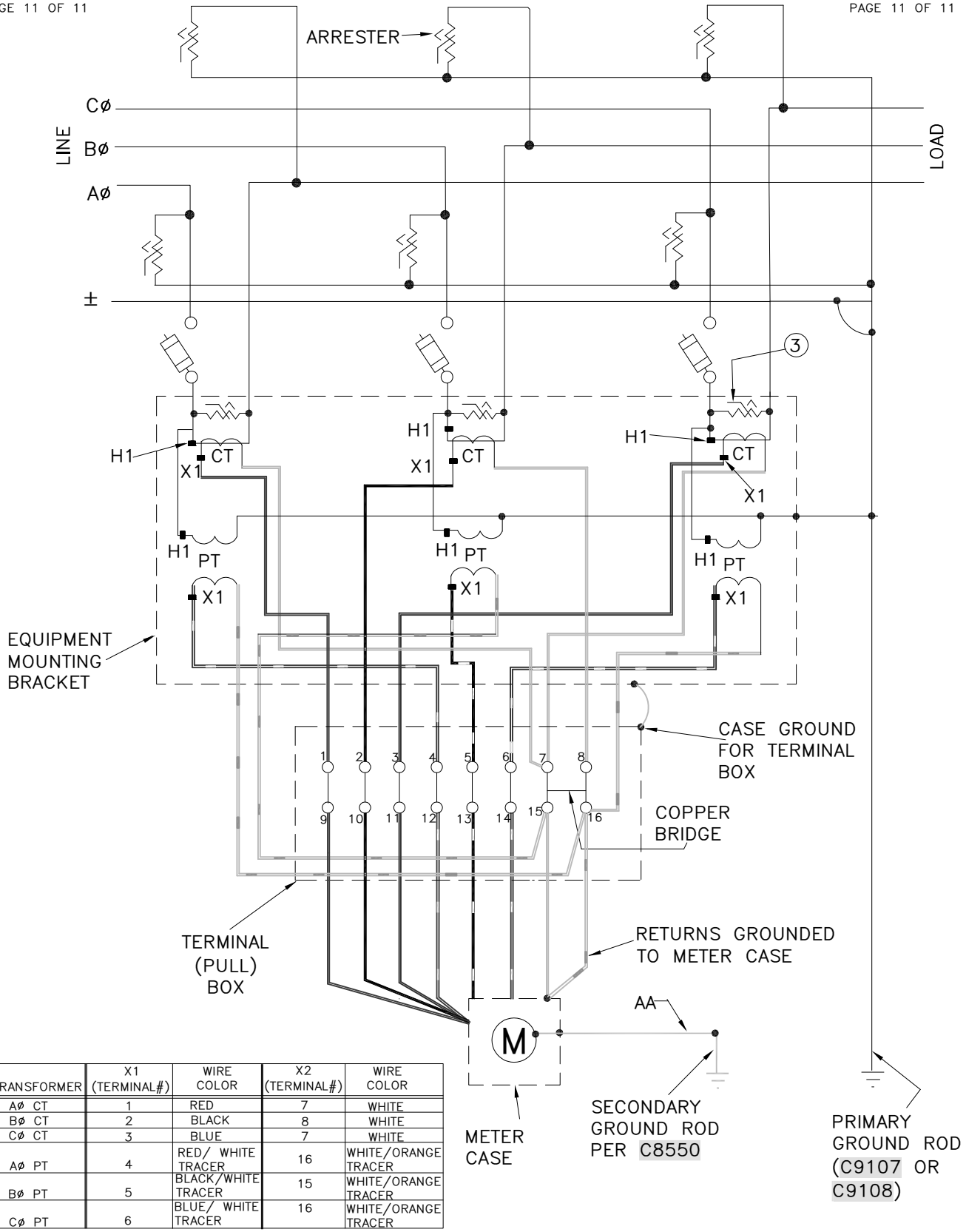

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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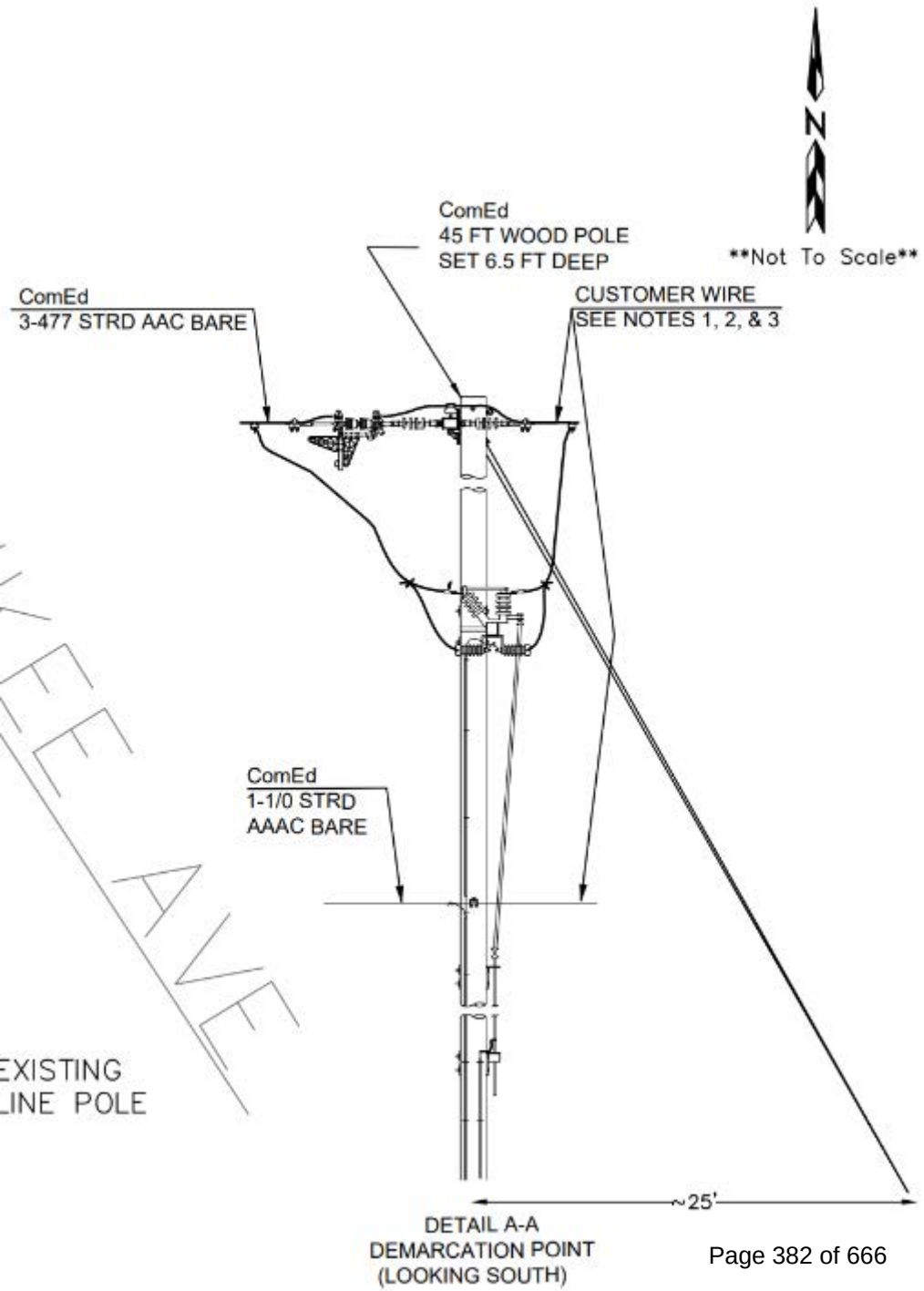
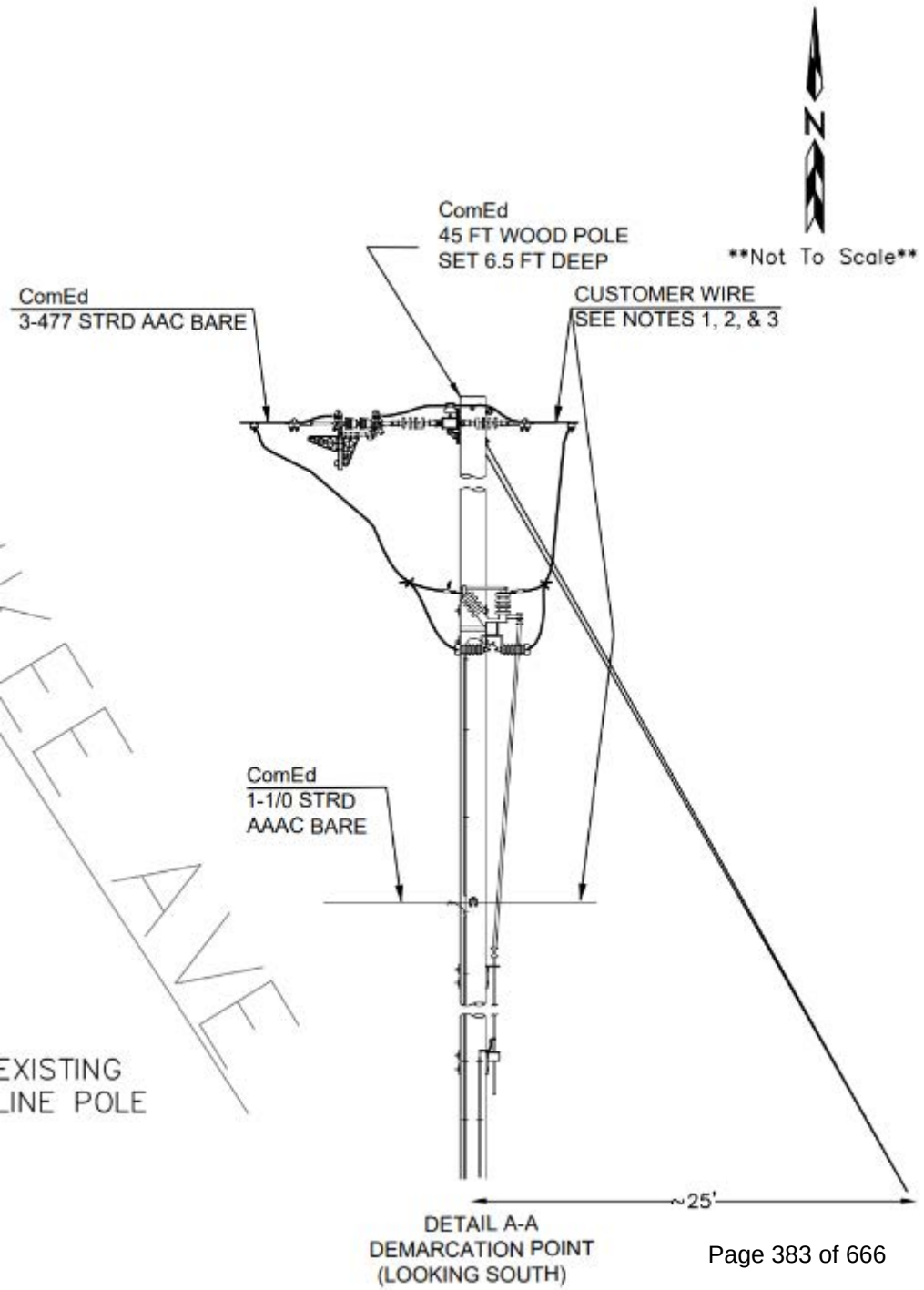


DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



Heavy Duty Safety Switch

DH367NRK

UPC:782113639277

Dimensions:

- **Height:** 12.38 IN
- **Length:** 57.5 IN
- **Width:** 27.5 IN

Weight:210 LB

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** Single-Throw
- **Amperage Rating:** 800A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class L fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Three-pole
- **Number Of Wires:** Four-wire
- **Product Category:** Heavy Duty, Fusible with neutral
- **Voltage Rating:** 600V
- **Max Hp Rating:** 500 at 480 Vac TD 3 Ph, 500 at 600 Vac TD 3 Ph

Supporting documents:

- Eatons Volume 2-Commercial Distribution
- Eaton Specification Sheet - DH367NRK

Certifications:

- UL Listed

Product compliance: No Data

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INVERTER

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	**SE80KUS**	**SE50KUS**	**SE100KUS**	**SE110KUS**	**SE120KUS**	**UNITS**
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					°F / °C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

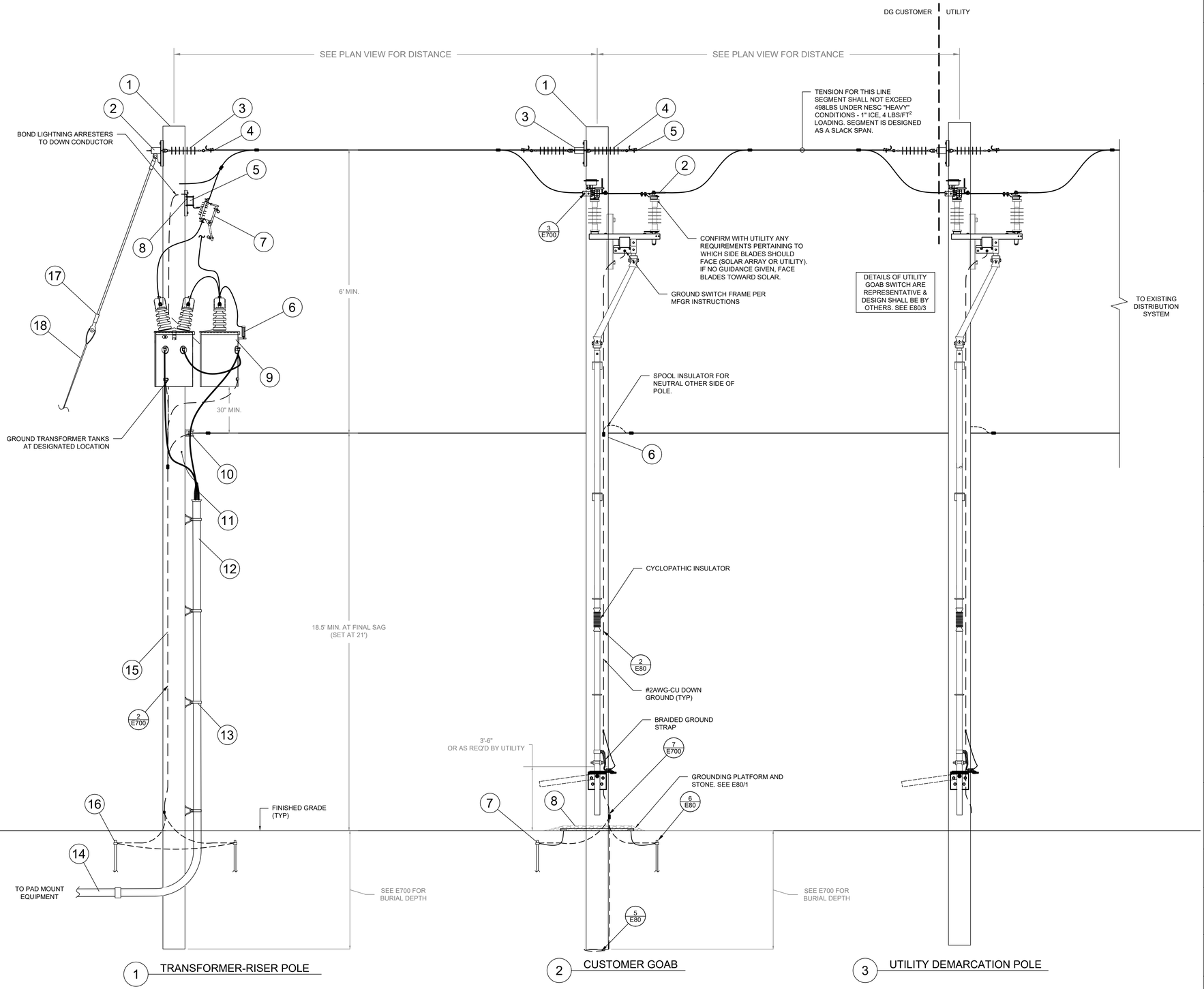
solaredge

RISER POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	Dead End Cross Arm	8' Fiberglass
3	3	Dead End Insulator	15kV Polymer
4	3	Strain Clamps	Coordinate with Supply Conductors; See table
5	2	Tangent Cross Arm	8' Fiberglass
6	3	Surge Arrester w/ Wildlife Covers	Riser Class. See line diagram for MCOV rating.
7	3	Polymer Fused Cutout with mounting hardware	100A body, see line diagram for ampere rating and speed.
8	3	Cutout Bracket	Cutout bracket for crossarm
9	3	Liquid Filled Pole Mount Transformers	KVA varies by site. Provide wildlife protectors if not furnished with transformer.
10	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
11	1	Cable Grip	Basket style cable grip--attach to pole with lag bolt to support conductors
12	20'	Schedule 80 PVC Conduit	Note: parallel conductors must be separated unless specifically allowed.
13	As needed	Conduit standoff supports	Coordinate with riser conduit size and quantity.
14	As needed	Schedule 40 PVC Conduit	After 90° fitting - to pad mounted equipment.
15	As needed	#2AWG-CU Solid	Ground/Down Conductor
16	2	Ground Rod	5/8" x 10' Coppperweld
17	1	Fiberglass guy strain	10' or as needed to extend past exposed live parts
18	As needed	Guy Wire	3/8" EHS Galvanized with preform grips
19	1	Guy Wire Guard	Yellow, 8' minimum
20	1	Guy Anchor	As required for loading and soil conditions. 10" dia. Helix, 1-1/4" x 96" rod min.
	As needed	Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required

GOAB POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	GOAB Switch	15kV, 600A, Horizontal Configuration, Ground Operator - Torsional, 1.5" OD Pipe Control
3	1	Dead End Cross Arm	8' Fiberglass
4	6	Dead End Insulator	15kV Polymer
5	6	Strain Clamps	Coordinate with Supply Conductors
6	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
7	2	Ground Rod	5/8" x 10' Coppperweld
8	1	Galvanized Steel Grate & #2 Stone	See detail Sheet E700
	As needed	ACSR Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	6	Compression Fittings for GOAB	2-hole NEMA. Coordinate with Supply Conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	#2AWG-CU Solid	Ground/Down Conductor
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required
	1	Padlock for LOTO	If required by utility/owner
	Lot	Labels	"PHOTOVOLTATIC (SOLAR) AC DISCONNECT", Site Plan Label, others as required by utility.



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solarlandscape

EXACTUS ENERGY
NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
OF ILLINOIS
Exp. 11/30/25

TYPICAL MV ELEVATIONS ILLINOIS PORTFOLIO

DRAWN BY
JS

CHECKED BY

DATE
23-Sep-2024

DRAWING LEVEL
ISSUED FOR CONSTRUCTION

REV.	DATE	DRAWING LEVEL
A		
B		
C		
D		
E		

SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
NTS

SHEET TITLE

E81

MEDIUM VOLTAGE ELEVATIONS

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PV26-0008, Request for a Variation to Reduce the Minimum Required Front Yard Setback Along Milwaukee Avenue from 25 Feet to 4.7 Feet for the Installation of a 40-Foot-Tall Utility Pole Associated with a Proposed Roof Top Solar Collection System for Cubesmart, L.P. (1004 S. Milwaukee Avenue). **PUBLIC HEARING**

RECOMMENDED ACTION: **Recommend approval of Docket No. PV26-0008** granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections, to permit a decrease in the minimum required front yard setback along Milwaukee Avenue from 25 feet to 4.7 feet for installation of a 40 foot tall utility pole associated with a 600 kW roof top solar collection system for Cubesmart, L.P., located at 1004 S. Milwaukee Avenue, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/27/2026; and Equipment Specifications; and subject to the following conditions:

1. Approval of the variation is contingent upon approval of Docket No. PSPMIN26-0004 (minor site plan and building appearance approval) and Docket No. PV25-0015 (variation to permit a decrease in the minimum required side yard setback on the north property line).

EXECUTIVE SUMMARY

Docket No. PV26-0008: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner, is seeking a variation to permit a decrease in the minimum required front yard setback along Milwaukee Avenue from 25 feet to 4.7 feet for the installation of a 40-foot-tall utility pole associated with a proposed roof top solar collection system for the property located at 1004 S. Milwaukee Avenue, as required in Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections.

GENERAL PROPERTY INFORMATION

Petitioner: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner

Location: 1004 S. Milwaukee Avenue

Property size: 3.07 acres / 55,774 sq. ft. (buildings)

Neighboring Property Land Use(s):
- North: Commercial
- West: Residential/Airport
- South: Airport
- East: Open Space (across S. Milwaukee Avenue)

Existing Use of Property: Public Storage Facility (Cubesmart)

Existing Zoning: B-3 (General Commercial and Office)

Comprehensive Plan Designation: Commercial

Zoning History:

- Docket #SCBA 05-45, approved 9/22/2005, granting approval of a freestanding sign.
- Ordinance No. 4538, approved 7/12/2010, granting a variation to permit a sign to exceed 100 sq. ft. due to the addition of an electronic message center (Docket #2010-15).
- Docket #SCBA 11-59, approved 11/17/2011, granting approval for a freestanding sign and awning sign.
- Docket #SCBA 17-20, approved 4/4/2017, granting an administrative approval of a freestanding sign face change.

SUMMARY OF REQUEST

The petitioner is requesting a variation to reduce the minimum required front yard setback along Milwaukee Avenue from 25 feet to 4.7 for the installation of a 40-foot-tall utility pole associated with a proposed 600 kW roof top solar collection system on the existing Cubesmart self-storage buildings at 1004 S. Milwaukee Avenue.

In addition, the petitioner is seeking minor site plan and appearance approval for the installation of ground-mounted equipment and roof top solar collection system (Docket No. PSPMIN26-0004) and a variation to permit a decrease in the minimum required side yard setback on the north property line (Docket No. PV25-0015).

VARIATION

A variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

As detailed in Docket No. PSPMIN26-0004, the petitioner is proposing to install a 40-foot-tall utility pole within the 25-foot front building setback along Milwaukee Avenue. The utility pole is part of the utility infrastructure associated with a proposed roof top solar collection system on the existing self-storage buildings at the subject site. Since a 40-foot-tall utility pole will be located within the required front yard building setback, the petitioner is requesting a variation to decrease the minimum required front yard setback from 25 feet to 4.7 feet.

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request.

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.**

   Petitioner: The subject parcel is already fully developed with a Cubesmart storage facility. The proposed roof top solar project does not involve the removal or demolition of any of the existing improvements. The proposed roof top solar project utilizes the roof tops of the existing structures. In addition to the roof top solar panels, the Project requires ground level interconnection facilities such as transformers and electrical poles. These interconnection facilities must be located in an area approved by Commonwealth Edison. Accordingly, the location of these above-ground interconnection facilities is restricted by the existing improvements on the subject parcel and Commonwealth Edison's requirements. The only feasible location for the project interconnection facilities is within the setback area. Without the reduced front yard setback variation the roof top solar project cannot be installed.

   Staff: While the subject property is constrained by existing improvements that limit the ability to comply with current setback requirements, thereby creating a practical hardship, the petitioner has not sufficiently demonstrated that the proposed utility pole location is the only feasible location on the site. As such, it has not been adequately established that the requested variation is the minimum necessary to address the identified hardship.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other**

properties or uses.

Petitioner: This hardship is unique because roof top solar projects seek to provide a beneficial additional use utilizing existing structures on developed parcels. When the Cubesmart facility was developed, it was not contemplated that years later the facility would be suitable for a roof top solar project which will utilize the otherwise unused space of the facility roof to provide clean renewable energy to the grid. Additionally, unlike other improvements, the interconnection facilities are subject to and must be approved by Commonwealth Edison. Accordingly, these circumstances are unique and different from other types of constructions and uses.

Staff: The hardship is not due to unique physical characteristics of the subject property, but rather the petitioner's desire to retrofit the site with rooftop solar infrastructure and associated interconnection equipment. While utility requirements may influence design, such conditions are not uncommon and do not constitute a unique circumstance that distinguishes the property from others.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**

Petitioner: The hardship in complying with the setback requirements for the electrical interconnection equipment arises from the unique situation of seeking to utilize an already developed parcel and meeting the interconnection requirements of Commonwealth Edison. When the Cubesmart facility was developed, it was not contemplated that roof top solar energy project would be built and therefore no effort was made to accommodate it in the facility design. Neither the applicant nor the property owner created this situation.

Staff: The hardship is being created by the request for the installation of the rooftop solar collection system. The subject property was developed in compliance with (prior) applicable regulations, and can continue to operate in compliance with the zoning district.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**

Petitioner: The property in question here is large and un-utilized roof top space on the storage facility buildings. This unused space (here and at other commercial and industrial locations throughout the Chicago area) present an opportunity to use this space to produce clean renewable energy. This energy production is able to be done with relatively minor additions to the current facility, placing solar panels on the roof and the installation of the electrical interconnection infrastructure. As stated above, without the variance the interconnection facilities cannot be installed on the subject parcel and therefore the roof top solar project cannot be developed. If the variance is not granted, the opportunity for this beneficial clean energy use is lost.

Staff: The subject property can continue to yield a reasonable return under the existing zoning regulations as a self-storage facility. The inability to implement the proposed roof top solar installation does not prevent the property from functioning as intended or generating economic return.

5. **State how the granting of the variation will not alter the essential character of the locality.**

Petitioner: Solar panels on commercial roof tops will have no impact upon surrounding properties in this area, and such installations are commonplace on residential, commercial and industrial properties. The variance concerns electrical interconnection facilities which consist of ground level electrical equipment and electrical poles. These types of facilities are located everywhere in the Chicago metropolitan area and are generally unnoticed by the general public. In the Village's commercial district, and with the proposed fencing, the granting of this variance should not cause any impact upon surrounding property.

Staff: The proposed variation may alter the character of the locality due to the introduction of an additional utility pole within a setback area. While utility infrastructure exists within the zoning district, the placement and visibility of the proposed equipment may not be consistent with the established development pattern.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.**

Petitioner: The installation of the roof top solar panels only require an increase of height several inches above the current roof top and will therefore not impair supply of light and air to adjacent property. Community roof top solar projects requires only periodic maintenance and therefore will not create any noticeable traffic in the public streets. Roof top solar projects have been safely and successfully installed at residential, commercial and industrial buildings for decades and do not pose unreasonable risk of fire or endanger the public safety. Roof top solar projects are located throughout the United States and do not impair property values, create traffic, noise, odor, light or smoke. Emergency access to the site is not affected by the proposed improvements.

Staff: The proposed variation has the potential to impact adjacent properties and the public due to the placement of the 40 foot tall utility pole within the front yard along Milwaukee Avenue.

STAFF REVIEW

Fire Department Review: No comments related to the variation.

Engineering Division Review: No comments related to the variation.

Staff Recommended Action: Staff does not recommend approval of the variation request.

****

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of a variation, the appropriate motion would be to:

Recommend approval of Docket No. PV26-0008 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections, to permit a decrease in the minimum required front yard setback along Milwaukee Avenue from 25 feet to 4.7 feet for installation of a 40-foot-tall utility pole associated with a 600 kW roof top solar collection system for Cubesmart, L.P., located at 1004 S. Milwaukee Avenue, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/27/2026; and Equipment Specifications; and subject to the following conditions:

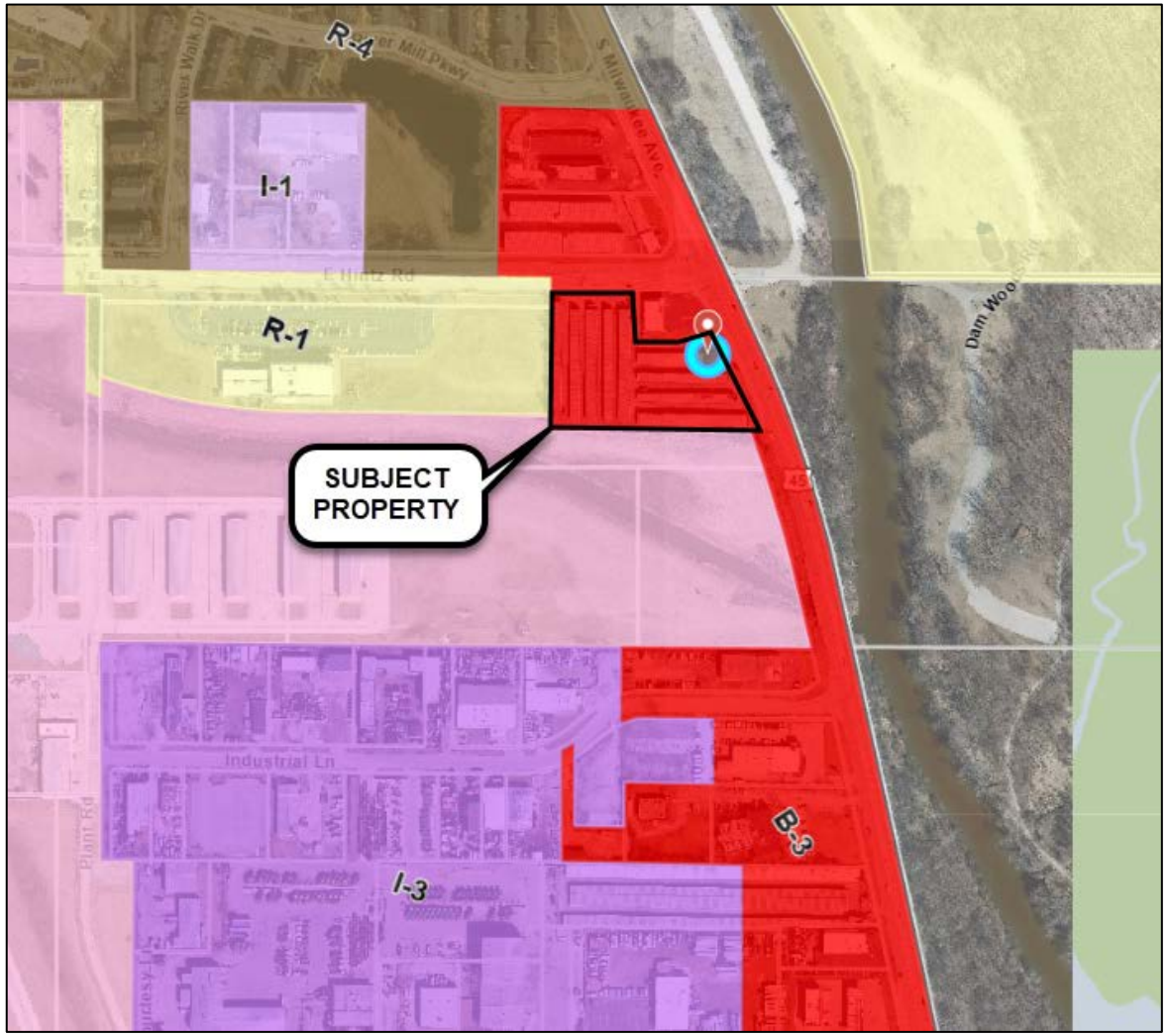
1. Approval of the variation is contingent upon approval of Docket No. PSPMIN26-0004 (minor site plan and building appearance approval) and Docket No. PV25-0015 (variation to permit a decrease in the minimum required side yard setback on the north property line).

ATTACHMENTS:

Attachments to Staff Report (Staff)
Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025
Plan Set prepared by Atwell, last revised 3/27/2026
Equipment Specifications



LOCATION MAP



ZONING MAP



View of North Property Line/Project Area Facing West.



View of North Property Line/Project Area Facing East.



View of the Existing Trash Enclosure on the West Side of the Project Area.

601 Bangs Ave, Suite 301
Asbury Park, NJ 07712
O. 844.765.2769
SOLARLANDSCAPE.COM

Project Narrative
1004 Milwaukee Ave, Wheeling, IL

(1) Owner and/or developer's name, phone number and address;

DEVELOPER

SOLAR LANDSCAPE LLC

601 BANGS AVENUE, SUITE 301

ASBURY PARK, NJ 07712

PHONE: (856) 437-9711

CONTACT: EMILY MCCUE

PROPERTY OWNER

CUBESMART L.P.

5 OLD LANCASTER RD

MALVERN, PA 19355

PHONE: 610-535-5407

CONTACT: ANDREA PRUDENTE

(2) Where applicable, the architect's or engineer's name, phone number and address;

CIVIL ENGINEER

ATWELL, LLC

1250 EAST DIEHL ROAD, SUITE 300

NAPERVILLE, IL 60563

PHONE: (630) 577-0800

FAX: (630) 577-0900

CONTACT: MICHAEL KEITH, P.E.

(3) Description of all proposed buildings indicating proposed uses and building size;

N/A – no new buildings proposed

Proposed Use of Existing Buildings:

Installation of a 400 kW AC rooftop community solar array on existing Cubesmart buildings on the property located at 1004 Milwaukee Ave, Wheeling, IL.

(4) Descriptions of the location, type and size of all outside signs;

No proposed monument signs. Only regulatory signs (i.e. WARNING: TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE THIS PANEL or any required regulatory signs/labels needed for the equipment).

(5) Calculations indicating the total site size, building floor area, number of parking spaces, amounts of impervious surfaces, and amount of nonimpervious green space.

N/A – no revisions to the existing property/structures

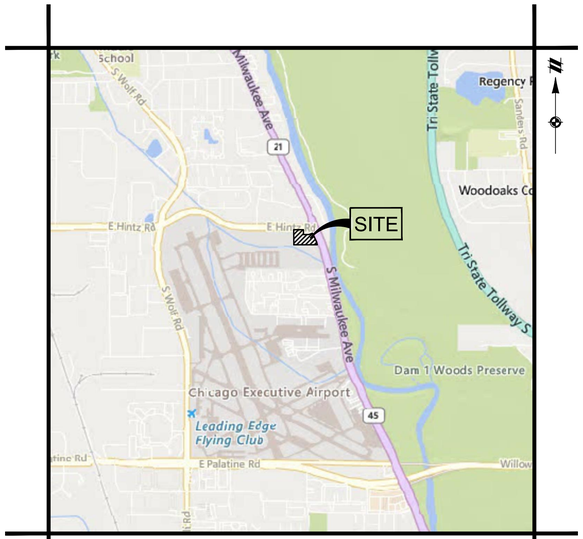
Existing Features On-Site:

- Site Area: 3.07 Acres
- Gross Floor Area of Existing Building footprints: 55,774 square feet.
- 4 marked existing parking spaces.
- Existing Impervious Area: 3.03 Acres
- Existing Non-Impervious Area: 0.04 Acres

CS IL 1004 MILWAUKEE AVE

1004 SOUTH MILWAUKEE AVENUE
WHEELING, COOK COUNTY, ILLINOIS

SPECIAL USE PERMIT PLANS



VICINITY MAP
NOT TO SCALE

DEVELOPMENT TEAM

DEVELOPER
SOLAR LANDSCAPE LLC
601 BANGS AVENUE, SUITE 301
ASBURY PARK, NJ 07712
PHONE: (856) 437-9711
CONTACT: EMILY MCCUE

CIVIL ENGINEER
ATWELL, LLC
1250 EAST DIEHL ROAD, SUITE 300
NAPERVILLE, IL 60563
PHONE: (630) 577-0800
FAX: (630) 577-0900
CONTACT: MICHAEL KEITH, P.E.

SURVEYOR
SURVEY SYSTEMS OF AMERICA, INC.
783 SOUTH EIGHTH STREET
DUNDEE, IL 60118
PHONE: (847) 428-5775
CONTACT: JOHN ERNST

GOVERNING AGENCIES & UTILITY CONTACTS

MUNICIPALITY/PLANNER
DIRECTOR OF COMMUNITY DEVELOPMENT
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: ROSS KLICKER

CITY ENGINEER
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

ELECTRIC
COMED
PHONE: (800) 334-7661

SOIL EROSION
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

WATER & SEWER
UTILITY SUPERINTENDENT
77 WEST HINTZ ROAD
WHEELING, IL 60090
PHONE: (847) 279-6928
CONTACT: JEFF WOLFGRAM

GAS
NICOR GAS
PHONE: (888) 642-6748

LEGAL DESCRIPTION

PARCEL 1:
THAT PART OF LOT 4 IN HENRY GRANDT AND OTHERS' SUBDIVISION (HEREINAFTER DESCRIBED), LYING NORTH OF A LINE 380 FEET SOUTH OF THE NORTH LINE OF SECTION 13 (ALSO BEING THE CENTER LINE OF HINTZ ROAD), AND EAST OF A LINE 216 FEET WEST OF THE WEST LINE OF LOT 5 EXTENDED, (EXCEPT THAT PART LYING EAST OF THE WEST LINE OF LOT 5, IN HENRY GRANDT AND OTHERS' SUBDIVISION AFORESAID, EXTENDED SOUTH, ALSO EXCEPTING THEREFROM THE SOUTH 14 FEET OF THE NORTH 44 FEET THEREOF CONDEMNED BY THE COUNTY OF COOK IN CASE NUMBER 86L51436), SAID LOT 4 BEING IN HENRY GRANDT AND OTHERS' SUBDIVISION OF THAT PART OF THE SOUTH 1420.62 FEET OF SECTION 12, WEST OF THE CENTER OF MILWAUKEE AVENUE, AND A PART OF THE NORTH ½ OF SECTION 13, ALL IN TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID SUBDIVISION FILED IN THE REGISTRAR'S OFFICE OF COOK COUNTY, ILLINOIS, JANUARY 29, 1923 AS DOCUMENT 172867, IN COOK COUNTY ILLINOIS.

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PARCEL 3:
NON-EXCLUSIVE EASEMENT FOR THE BENEFIT OF PARCELS 1 AND 2 FOR STORM WATER DRAINAGE AS CREATED BY RECIPROCAL EASEMENT AGREEMENT MADE BY MILWAUKEE AMUSEMENT CORPORATION AND THE FIRST NATIONAL BANK OF LAKE FOREST, TRUST NO. 4287, RECORDED SEPTEMBER 3, 1974 AS DOCUMENT 22835025 AND FILED AS DOCUMENT LR2771582, AS AMENDED AND RESTATED RECIPROCAL EASEMENT AGREEMENT RECORDED JUNE 4, 1998 AS DOCUMENT 98466355.

SHEET INDEX

C01.0 COVER SHEET
C02.0 EXISTING CONDITIONS PLAN
C03.0 SITE LAYOUT PLAN
C04.0 STANDARD NOTES AND DETAILS

Michael B Keith

MICHAEL B. KEITH
062-066723
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

03/27/2026
EXP. 11/30/2027

Know what's below. Call before you dig.
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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ATWELL
866.850.4200 www.atwell.com
1250 EAST DIEHL ROAD, SUITE 300
NAPERVILLE, IL 60563
630.577.0800
DESIGN FIRM #184005876-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
COVER SHEET

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/09/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
2026/02/23
REVISIONS PER VILLAGE
2026/03/27
REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C01.0

I:\2025\01\SOLAR\25-01704\ENGINEERING\PLANSET\25000704-SLD-COVER SHEET 2026-03-27.DWG - COVER SHEET 3/27/2026 3:57 PM ALEX HANAK



LEGEND

- BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SETBACK LINE
- EXISTING BUILDING
- FEMA REGULATORY FLOODWAY

EXISTING CONDITIONS BASED ON ALTA/ACSM LAND TITLE SURVEY BY SURVEY SYSTEMS OF AMERICA, INC. 11/30/2004.

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SCALE IN FEET
0 30 60 90 150

811 Know what's **below.** **Call** before you dig.

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SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

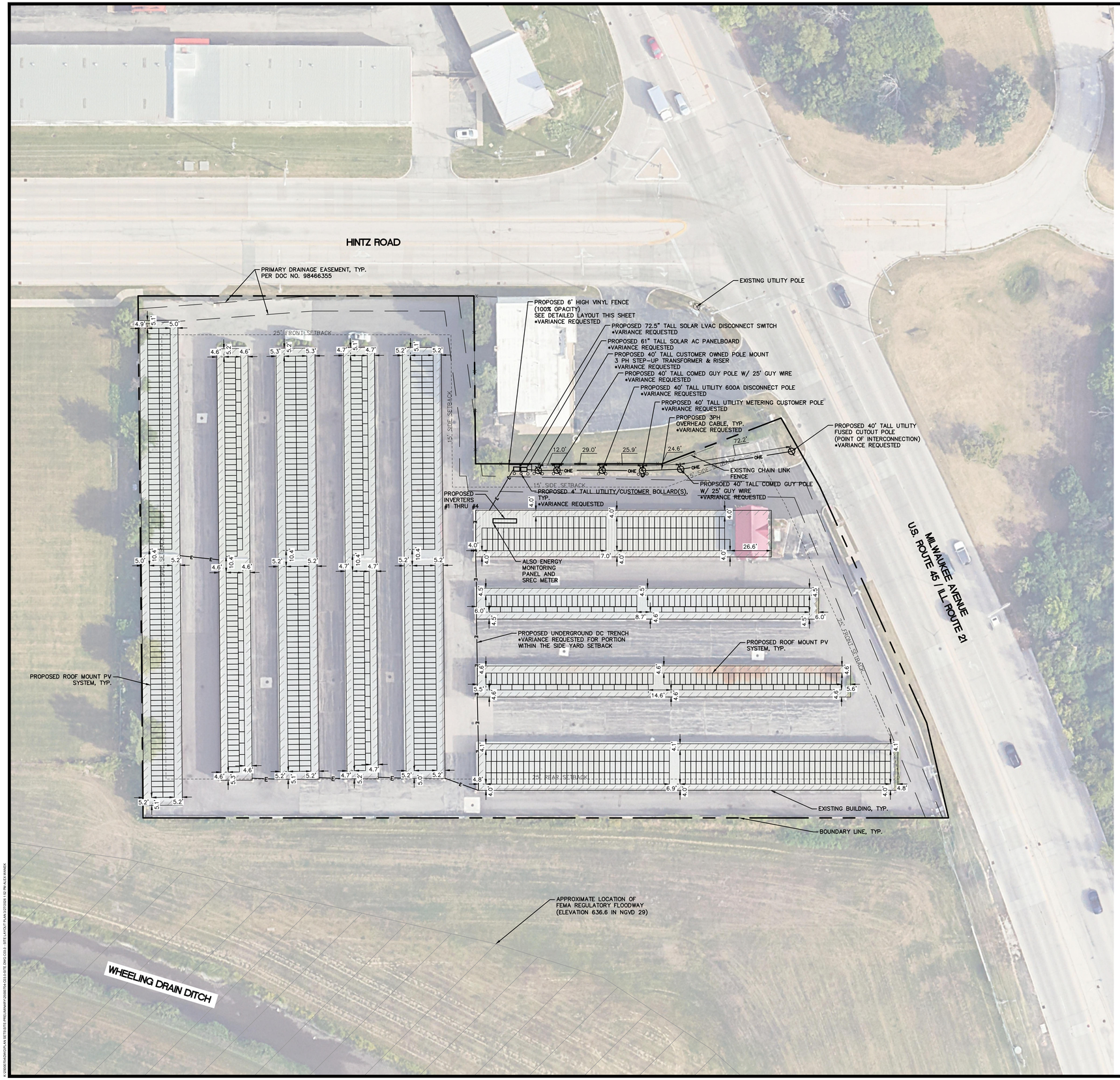
ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
EXISTING CONDITIONS PLAN

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05 REVISIONS PER CLIENT
2025/12/17 REVISIONS PER CLIENT & VILLAGE
2026/02/23 REVISIONS PER VILLAGE
2026/03/27 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C02.0



LEGEND

- BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SETBACK LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- PROPOSED FENCE
- EXISTING BUILDING
- FEMA APPROXIMATE FLOODWAY

SITE DATA

PIN:	03-13-101-025
JURISDICTION:	VILLAGE OF WHEELING, IL
ZONING DISTRICT:	B-3 (GENERAL COMMERCIAL AND OFFICE DISTRICT)
CURRENT LAND USE:	STORAGE FACILITY
PARCEL AREA:	± 3.074 ACRES

FEMA FLOOD HAZARD: REGULATORY FLOODWAY AND ZONE AE PER FIRM MAP #17031C0207J DATED 8/19/2008.

GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
3. LIMITS OF WORK SHALL BE EROSION CONTROL BARRIERS AS INDICATED ON DRAWINGS.
4. ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.
5. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
6. EXISTING TREES AND SHRUBS SHALL NOT BE CLEARED, UNLESS OTHERWISE NOTED.
7. FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

ZONING DISTRICT:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS THAT MAY BE PROMULGATED BY THE COOK COUNTY PLANNING AND DEVELOPMENT DEPARTMENT, SOIL AND WATER CONSERVATION DISTRICT, AND MUNICIPAL AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, SECURING AND COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AS ADMINISTERED BY THE STATE ENVIRONMENTAL PROTECTION AGENCY.

LAYOUT AND MATERIALS NOTES:
1. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN SITE PLAN DIMENSIONS AND BUILDING PLANS BEFORE PROCEEDING WITH ANY PORTION OF SITE WORK WHICH MAY BE AFFECTED SO THAT PROPER ADJUSTMENTS TO THE SITE LAYOUT CAN BE MADE IF NECESSARY.
4. PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

ZONING REQUIREMENTS

ZONING DISTRICT: B-3

REQUIRED SETBACKS FOR GROUND EQUIPMENT:

YARD	REQUIRED	PROPOSED
FRONT / STREETS:	25 FT.	SEE NOTE BELOW. •
SIDE:	15 FT.	SEE NOTE BELOW. •
REAR:	N/A	N/A

•ALL PROPOSED GROUND MOUNTED EQUIPMENT AND PROPOSED STRUCTURES ARE LOCATED WITHIN THE SETBACK(S). VARIANCE IS REQUESTED FOR THE FOLLOWING:

- POINT OF INTERCONNECTION POLE IS WITHIN THE FRONT YARD SETBACK AND 4.7 FT. FROM THE RIGHT-OF-WAY.
- 6' HIGH VINYL FENCE IS WITHIN THE SIDE YARD SETBACK AND IS 0.5 FT. FROM THE PROPERTY LINE.
- SOLAR LVAC DISCONNECT SWITCH IS WITHIN THE SIDE YARD SETBACK AND IS 2.0 FT. FROM THE PROPERTY LINE.
- SOLAR AC PANELBOARD IS WITHIN THE SIDE YARD SETBACK AND IS 2.3 FT. FROM THE PROPERTY LINE.
- CUSTOMER OWNED POLE MOUNT 3 PH STEP-UP TRANSFORMER & RISER IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- WEST COMED GUY POLE W/ 25' GUY WIRE IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- UTILITY 600A DISCONNECT POLE IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- UTILITY METERING CUSTOMER POLE IS WITHIN THE SIDE YARD SETBACK AND IS 4.4 FT. FROM THE PROPERTY LINE.
- UTILITY/CUSTOMER BOLLARDS ARE WITHIN THE SIDE YARD SETBACK AND ARE 6.3 FT. FROM THE PROPERTY LINE (DISTANCE FROM PROPERTY LINE TO NEAREST BOLLARD).
- EAST COMED GUY POLE W/ 25' GUY WIRE IS WITHIN THE SIDE YARD SETBACK AND IS 6.1 FT. FROM THE PROPERTY LINE.
- UNDERGROUND DC TRENCH IS PARTIALLY WITHIN THE SIDE YARD SETBACK AND IS 3.4 FT. FROM THE PROPERTY LINE (DISTANCE FROM PROPERTY LINE TO NEAREST PORTION OF UNDERGROUND DC TRENCH).
- 3PH OVERHEAD CABLE IS PARTIALLY WITHIN THE FRONT AND SIDE YARD SETBACKS. THE PORTION OF THE 3PH OVERHEAD CABLE THAT COMES CLOSEST TO THE PROPERTY LINE (SIDE YARD) SITS AT 4.2 FT., AND FOR THE RIGHT-OF-WAY (FRONT YARD), 4.7 FT.

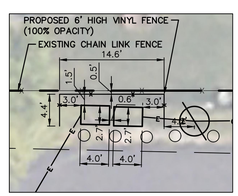
APPROXIMATE LOCATION FOR FEMA REGULATORY FLOODWAY SHOWN ON PLANS. THE REMAINDER OF THE SITE IS IN ZONE AE.

FLOODPLAIN NOTES

1.) FLOODPLAIN ELEVATION ON PROPERTY NEAREST TO THE IMPROVEMENTS IS 636.6 IN NVGD 29 (640.2 NAVD 88).

2.) ANY ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE THE BASE FLOOD ELEVATION (636.6) OR FLOOD PROOFED.

3.) AS-BUILT DRAWINGS WILL BE REQUIRED TO FINALIZE THE FLOODPLAIN PERMIT. THE AS-BUILT DRAWINGS SHOULD INCLUDE LOCATION OF UNDERGROUND CONDUIT AND ELEVATION OF ELECTRICAL EQUIPMENT IN RELATION TO THE BASE FLOOD ELEVATION.



DETAILED VINYL FENCE LAYOUT
SCALE 1"=10'

SCALE IN FEET
0 30 60 90 150

811 Know what's below. Call before you dig.

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CS IL 1004 MILWAUKEE AVE
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SPECIAL USE PERMIT PLANS
SITE LAYOUT PLAN

NOT FOR CONSTRUCTION

DATE
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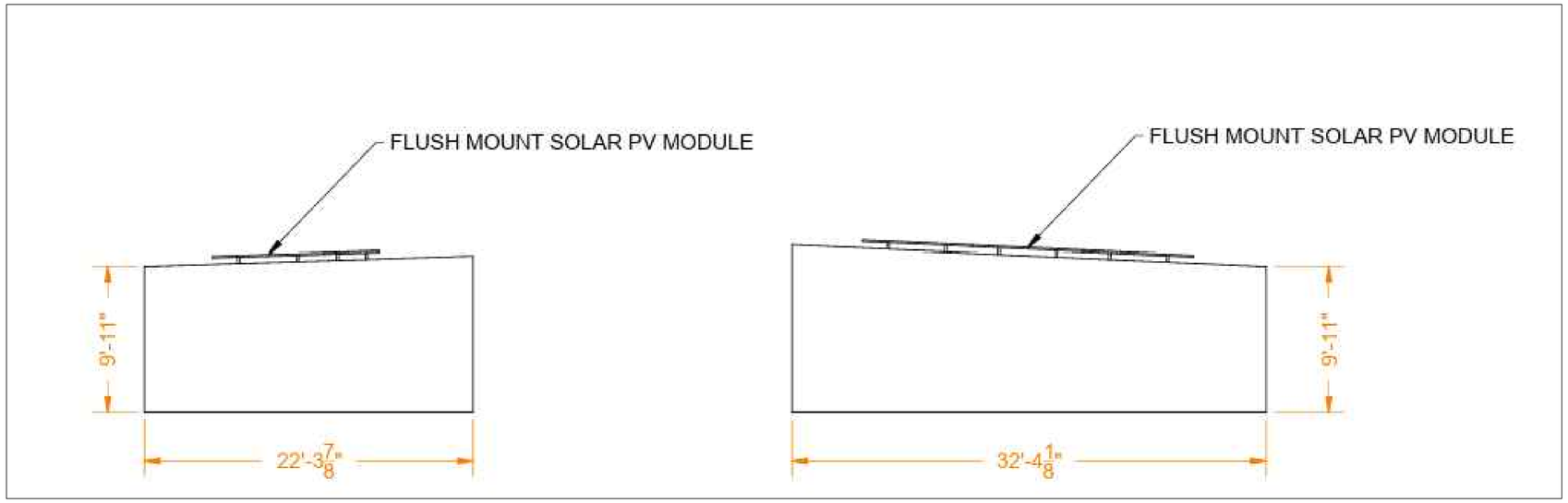
REVISIONS PER VILLAGE

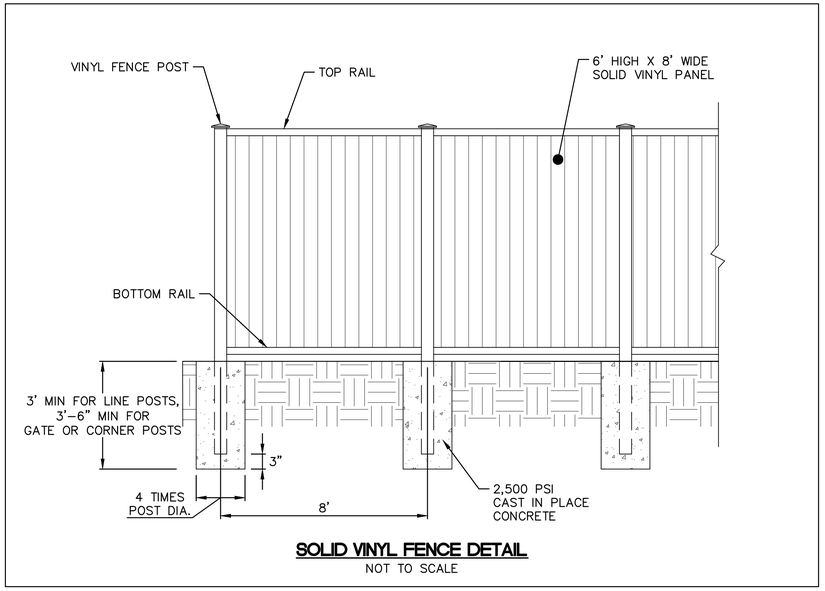
DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C03.0

G:\25000704\DWG\PLAN SET\SITE\SPRINGWAY\25000704-SDS-SITE LAYOUT PLAN.DWG, 3/27/2026 1:02 PM, ALEX.WARK



TYPICAL BUILDING SECTION

NOT TO SCALE



SOLID VINYL FENCE DETAIL

NOT TO SCALE

Know what's below. Call before you dig.

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STANDARD NOTES AND DETAILS

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JOB 25000704
SHEET NO.
C04.0

C:\BIM\25000704_MKE\BIT\SITE PRELIM\MAPS\25000704-SD4.4.SHT5_SOLAR SHEETS - STANDARD NOTES AND DETAILS 3-27-2026 1:58 PM ALEX WORK

PANEL MARKS: **7000 S CICERO AV, BE**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	600A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	22 KAIC SC FULLY RATED
MATERIAL:	ALUMINUM BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR.	Bottom
TYPE:	Breaker
AMPS/SENSOR:	600A/-
CATALOG NO.:	XT5NU360BBYNDB0XXX
POLES:	3
LUGS:	Horiz. XT5 (2) 2/0-500 mcm, No Feed Through Lugs
ACCESSORIES:	2 Aux 250V AC/DC
ACCESSORIES:	Bell Alarm
ACCESSORIES:	110-240V AC / 110-250V DC ShuntTrip
ACCESSORIES:	TMA

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
16	16

OPTIONS INCLUDED

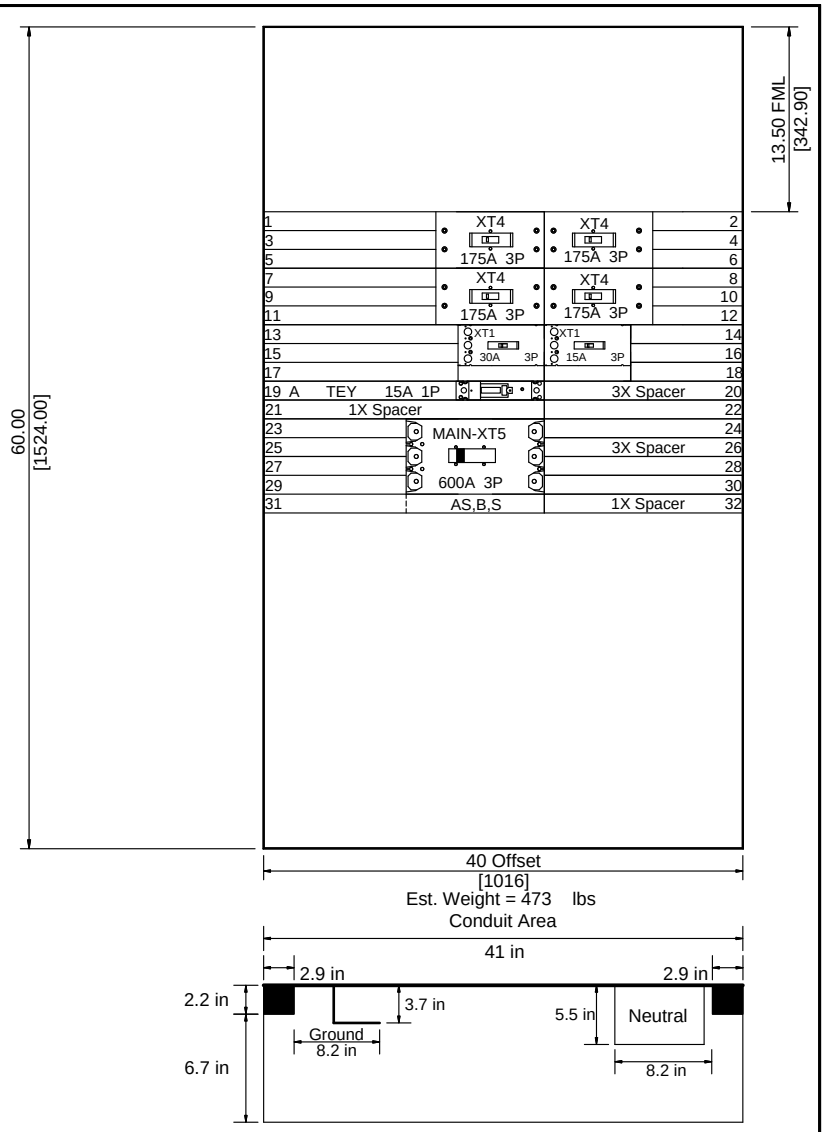
QTY	DESCRIPTION
1	Nameplates
1	Aluminum Bus Heat Rated
1	Grnd-Box bonded

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER6040R	Enclosure
1	GC40F16NNA	Gutter Covers
1	FT40S00135	Front 1 of 2
1	FT40S00205	Front 2 of 2

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG10AL	Ground
1	IN1606NN3H1	Interior Bus Stack
1	NL12I0NSTNDAL	Neutral
0	MAINXHX55	Main Code - Not a Catalog Number
1	75C141109P109	Nameplates
1	IF1640F	Interior Frame
1	IL40F	Lifting Kits
1	SR01BB	1X Blank only
1	SR01BF	1X Filler & Blank
2	SR03BB	3X Blank only
1	SR1XBF	1 XT1 Mtg Kit, Wide
1	SR1XBR	1 XT1 Mtg Kit, Narrow
1	SR01BF	Acc Filler



PANEL INFORMATION	
INTERNAL DIMENSIONS	60"X42"X11"
NOTES	
EXTERNAL DIMENSIONS	61"X43.5"X16.7"

1. FML - FRAME MOUNTING LOCATION.
2. DRAWING NOT TO SCALE.
3. DIMENSIONS ARE IN INCHES[mm].

NEUTRAL CAN BE MOUNTED IN ANY CORNER

FACTORY AUTO-LAYOUT. THE LAYOUT IS NOT SPECIFIED, THE FACTORY MAY CHANGE THE LOCATION OF SOME OF THE BREAKERS. NEUTRAL ARE PRESSURE LUGS.

PROJECT NAME : 15x Wave 3 IL MCB Panelboards		PANEL ID: neXT Panel Assembled Interior	PRODUCT NAME: *ReliaGear neXT PANELBOARD*	DRAWING NO:
CUSTOMER: WESCO DISTRIBUTION INC. HAUPPAUGE		CREATED BY: Schultz, William		ITEM NO: 1
		DATE: 05/28/2024 19:50:47		MARKS: 7000 S CICERO AV, BE
		REVISION NO.		QUOTE NO: UAV-00035419
				SHEET: 1

6/9/2024 3:18:59 PM SAP ORDER:

neXT Device Information

X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
Main	XT5NU360BBYNDB0XXX	600	-	TMA	3	A,B,C	(2) 2/0 AWG - 500 MCM	1,2,3
1	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
2	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
7	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
8	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
13	XT1NU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1NU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYADEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

1 Device is furnished with 2 Aux 250V AC/DC
2 Device is furnished with Shunt trip 110-240V AC/110-250V DC
3 Device is furnished with Bell alarm

PANEL MARKS: **7000 S CICERO AV, BE**

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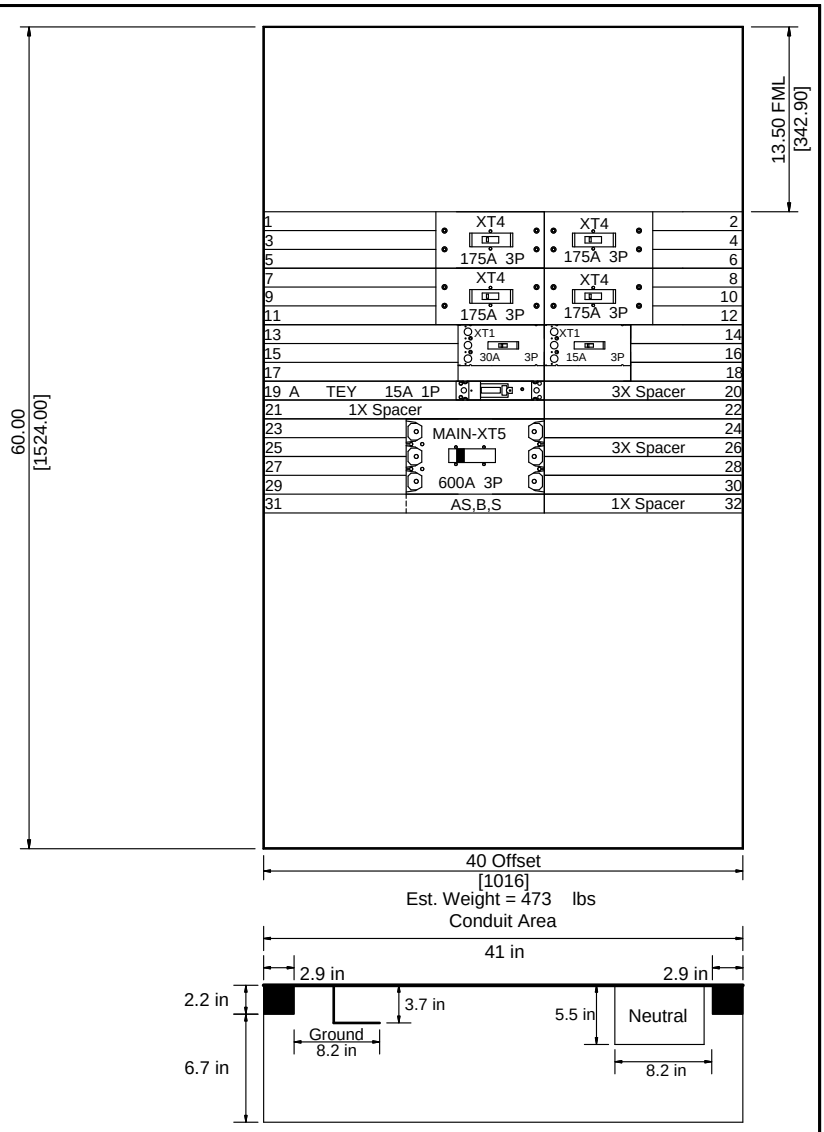

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7	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
8	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
13	XT1NU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1NU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYADEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

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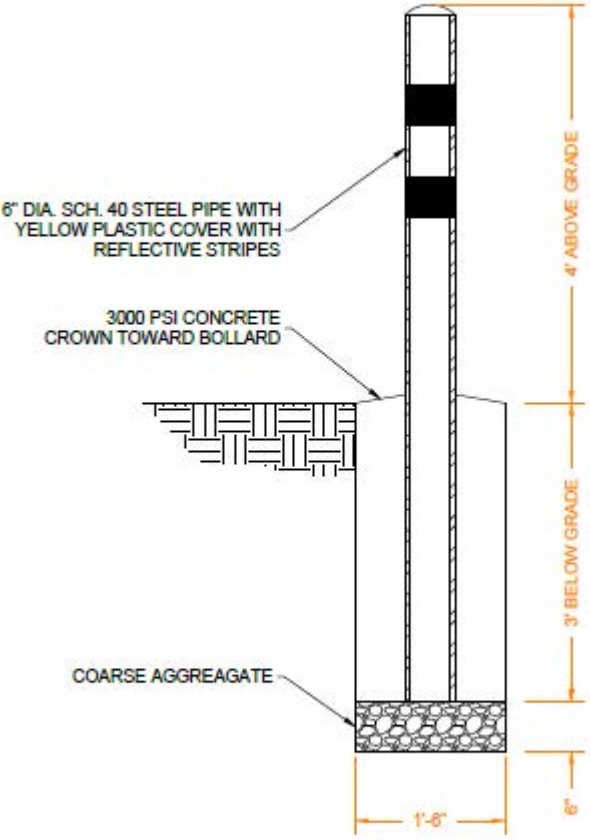

2 / E12 BOLLARD DETAILS
SCALE: 1:12

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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C9105
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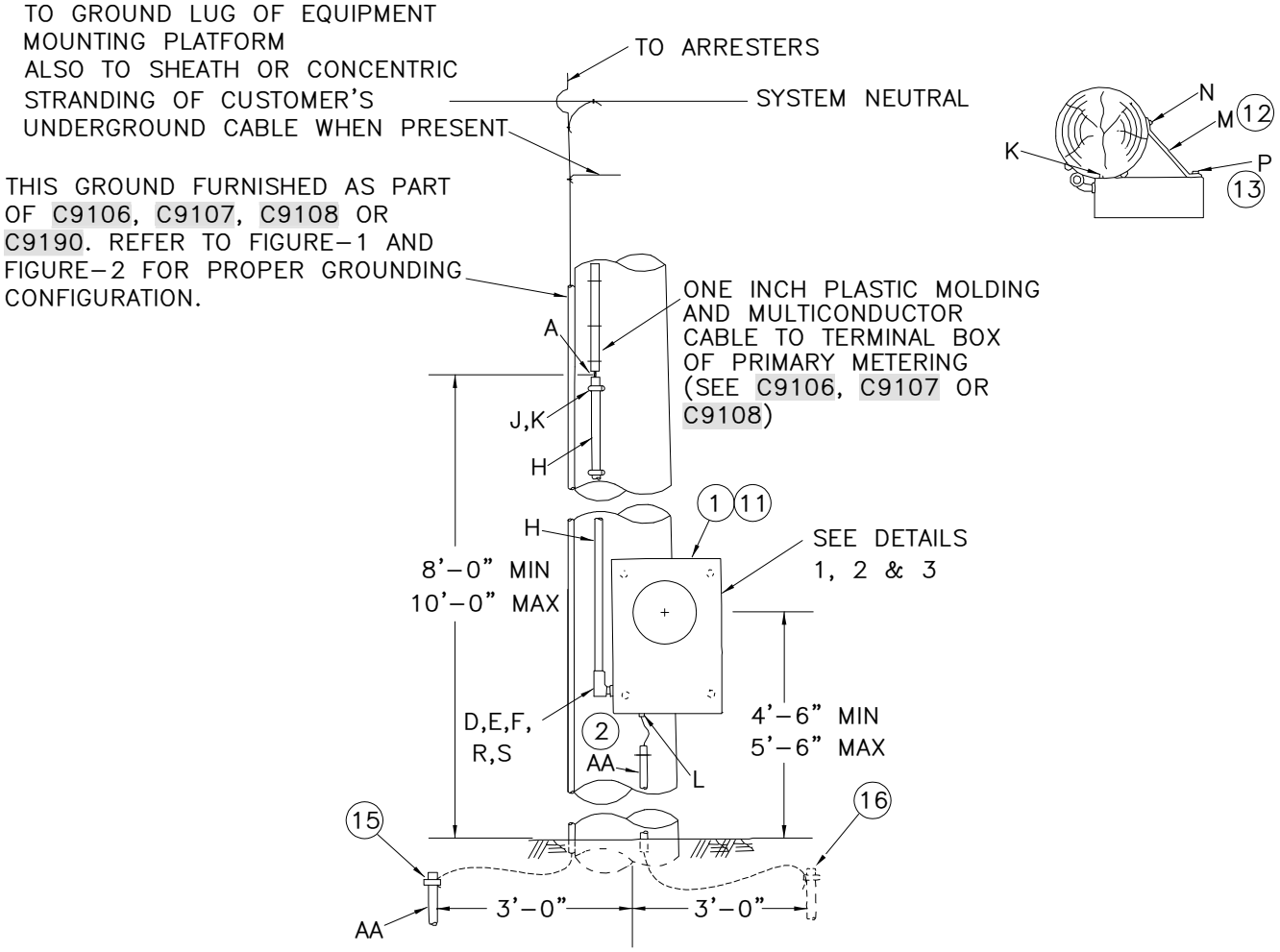
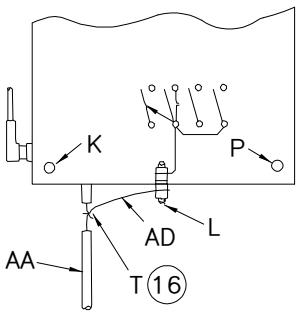
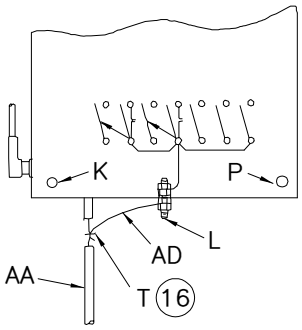


C9105.1_

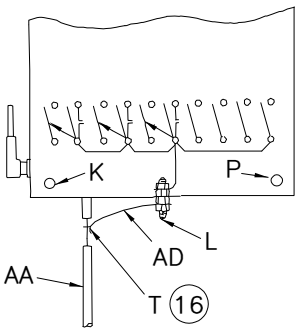
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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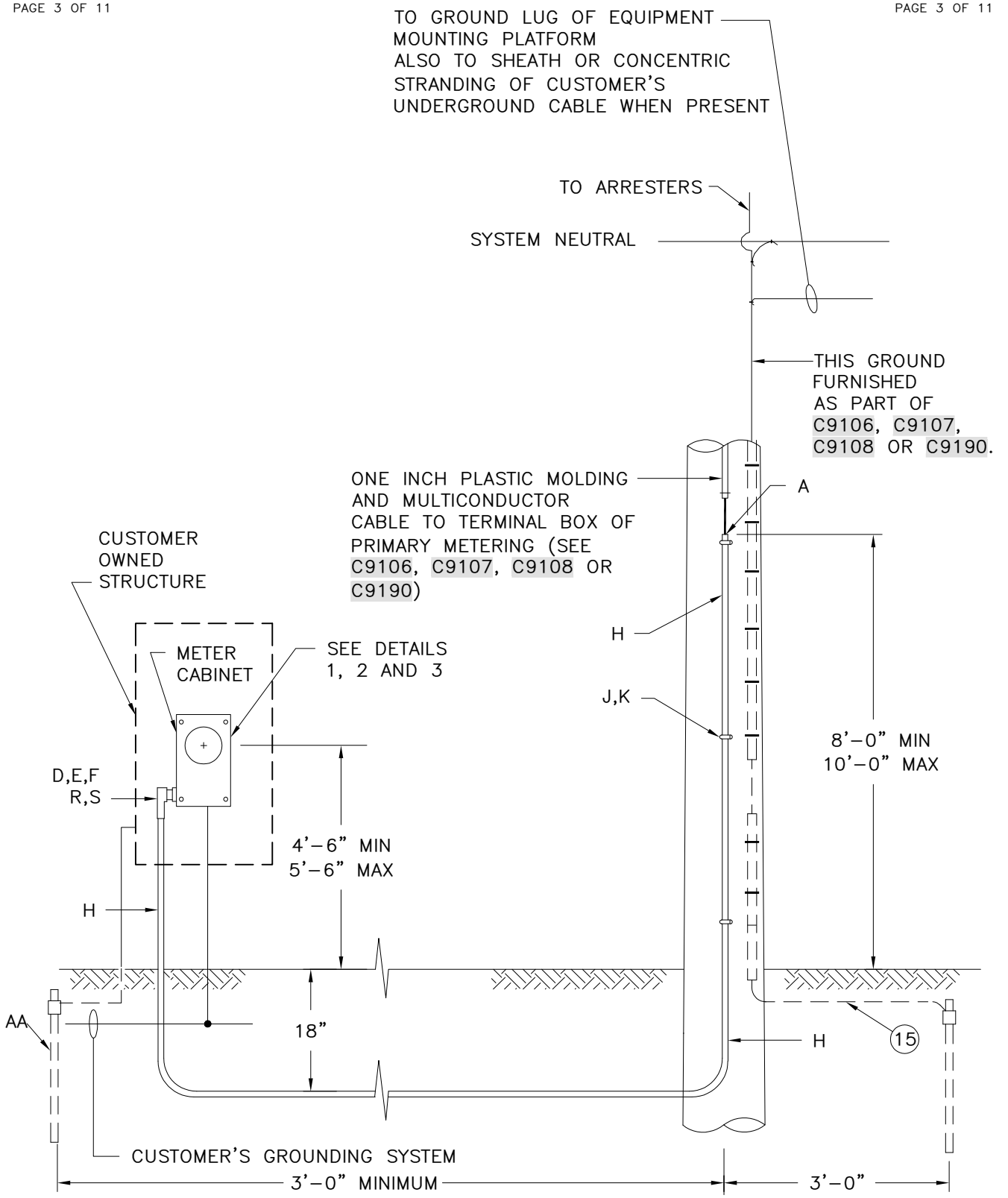

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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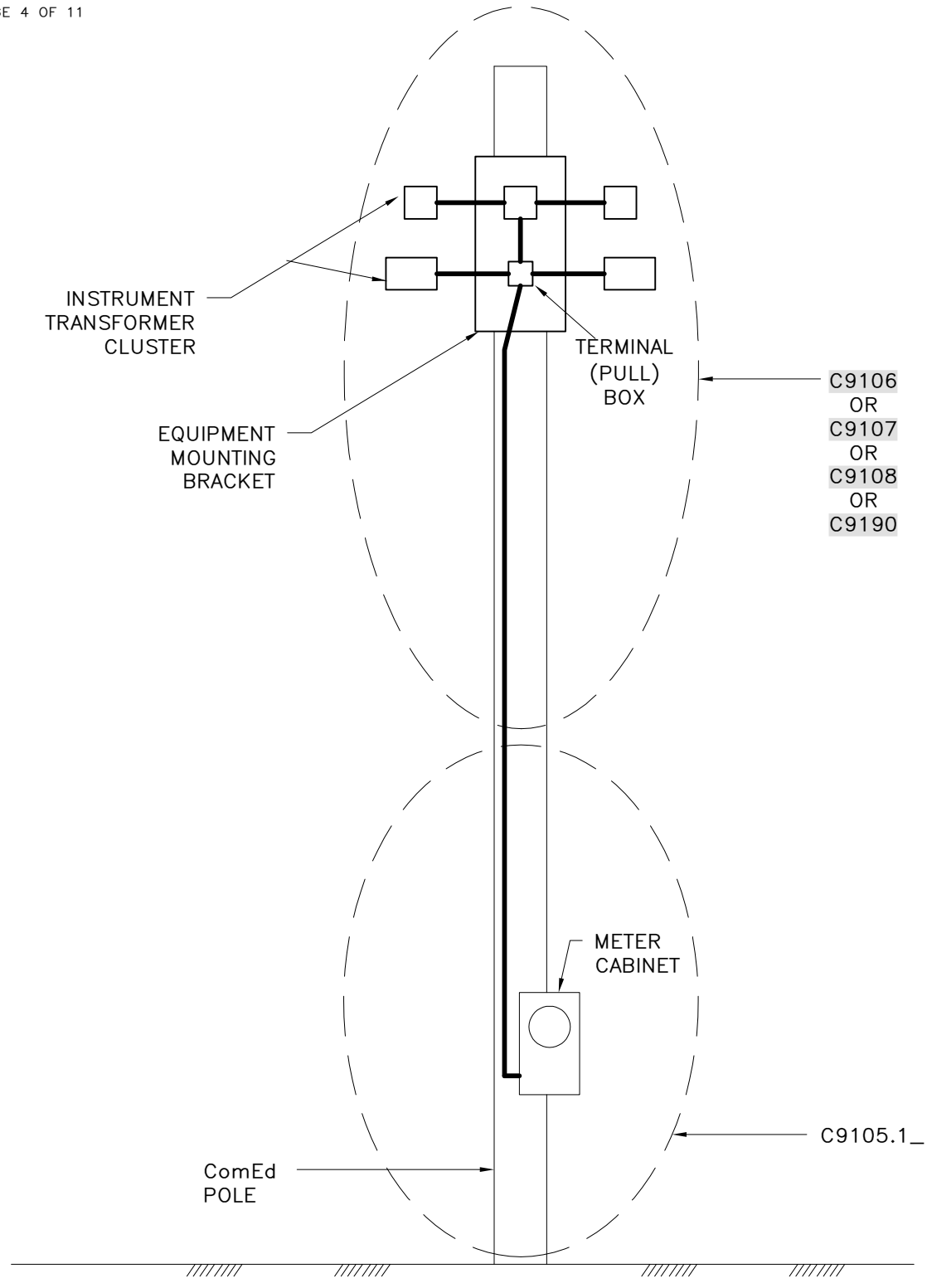

DETAIL-4

METER ON PRIMARY METERING POLE

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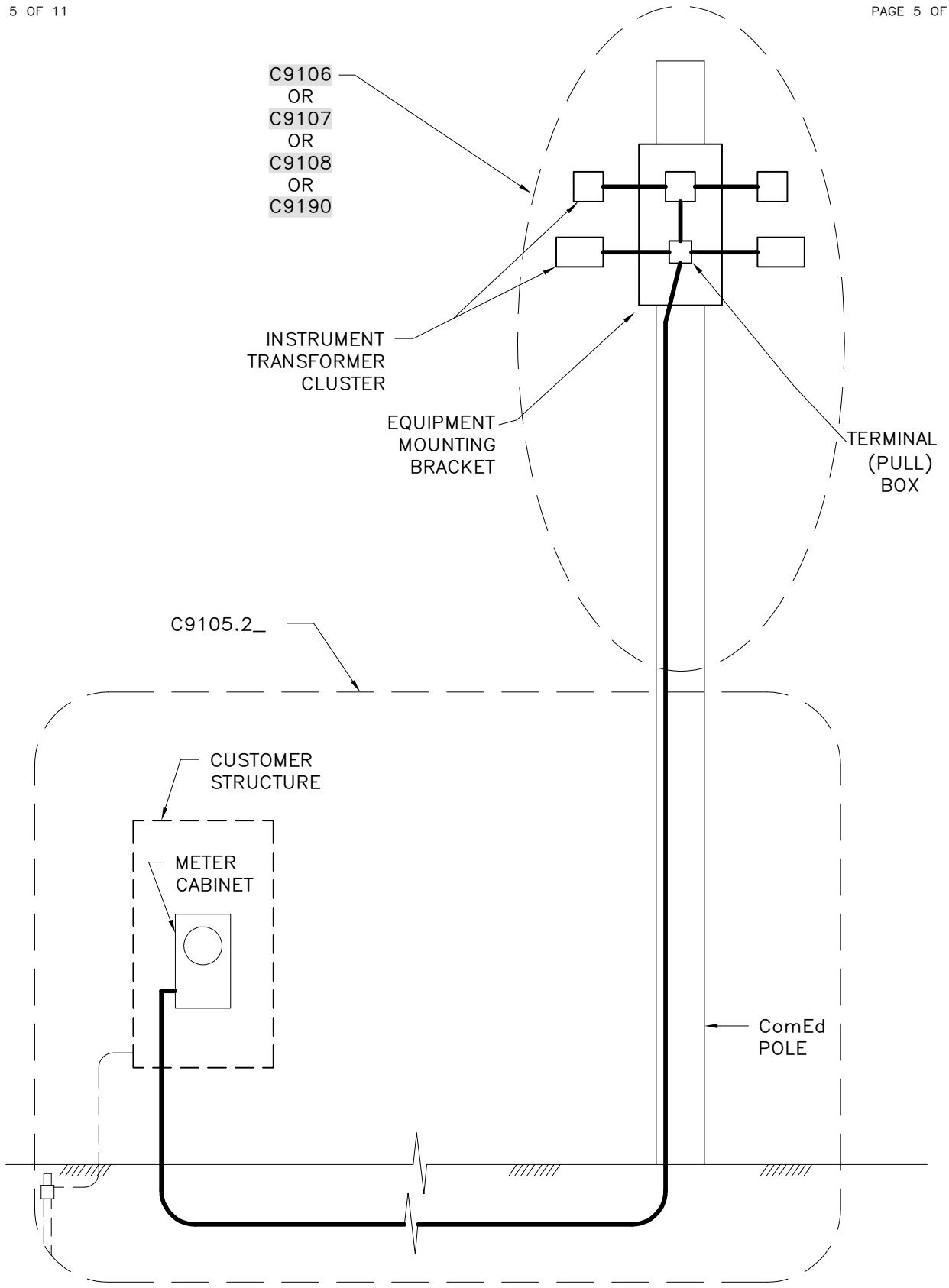

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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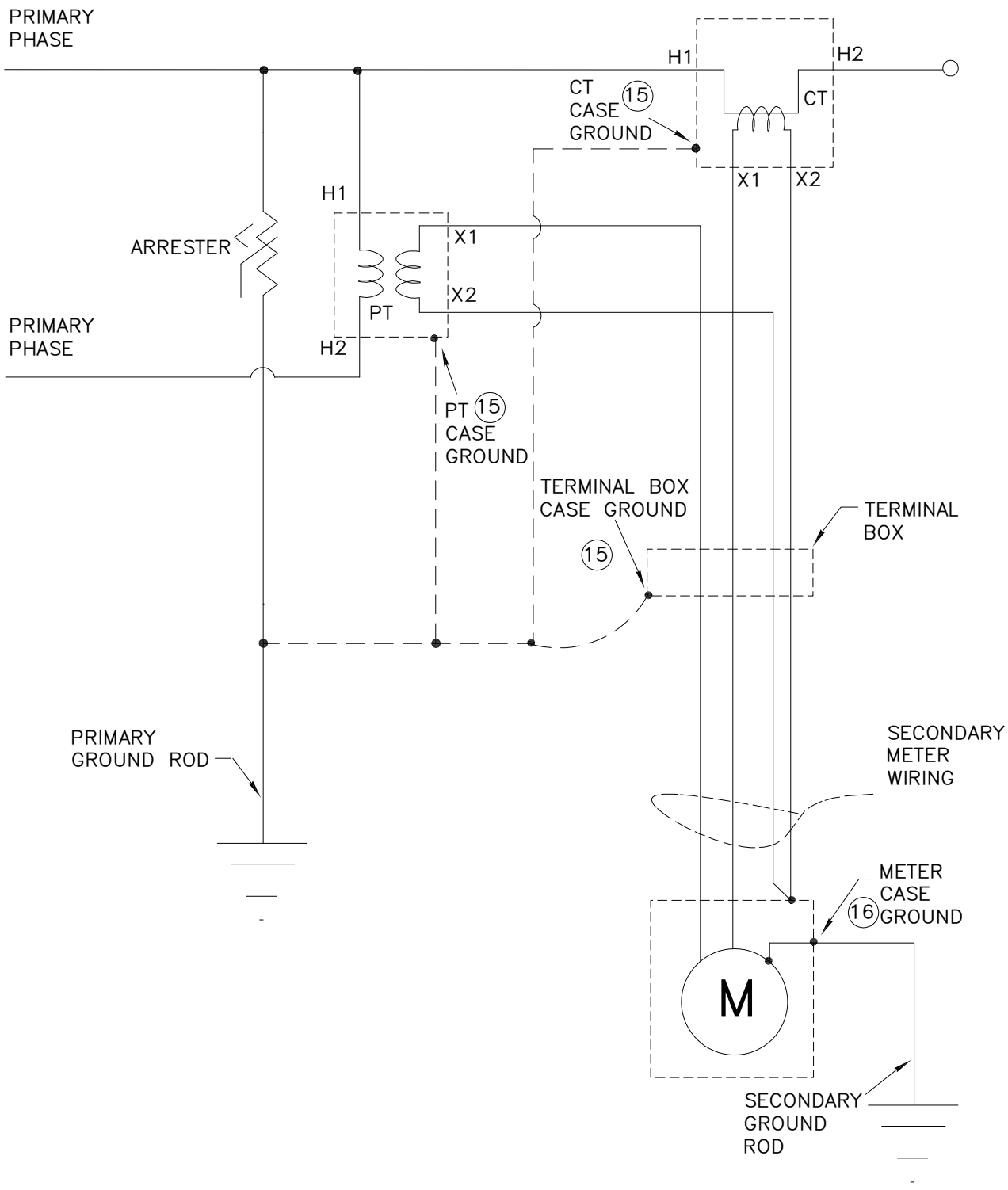

FIGURE-1

3-WIRE GROUNDING

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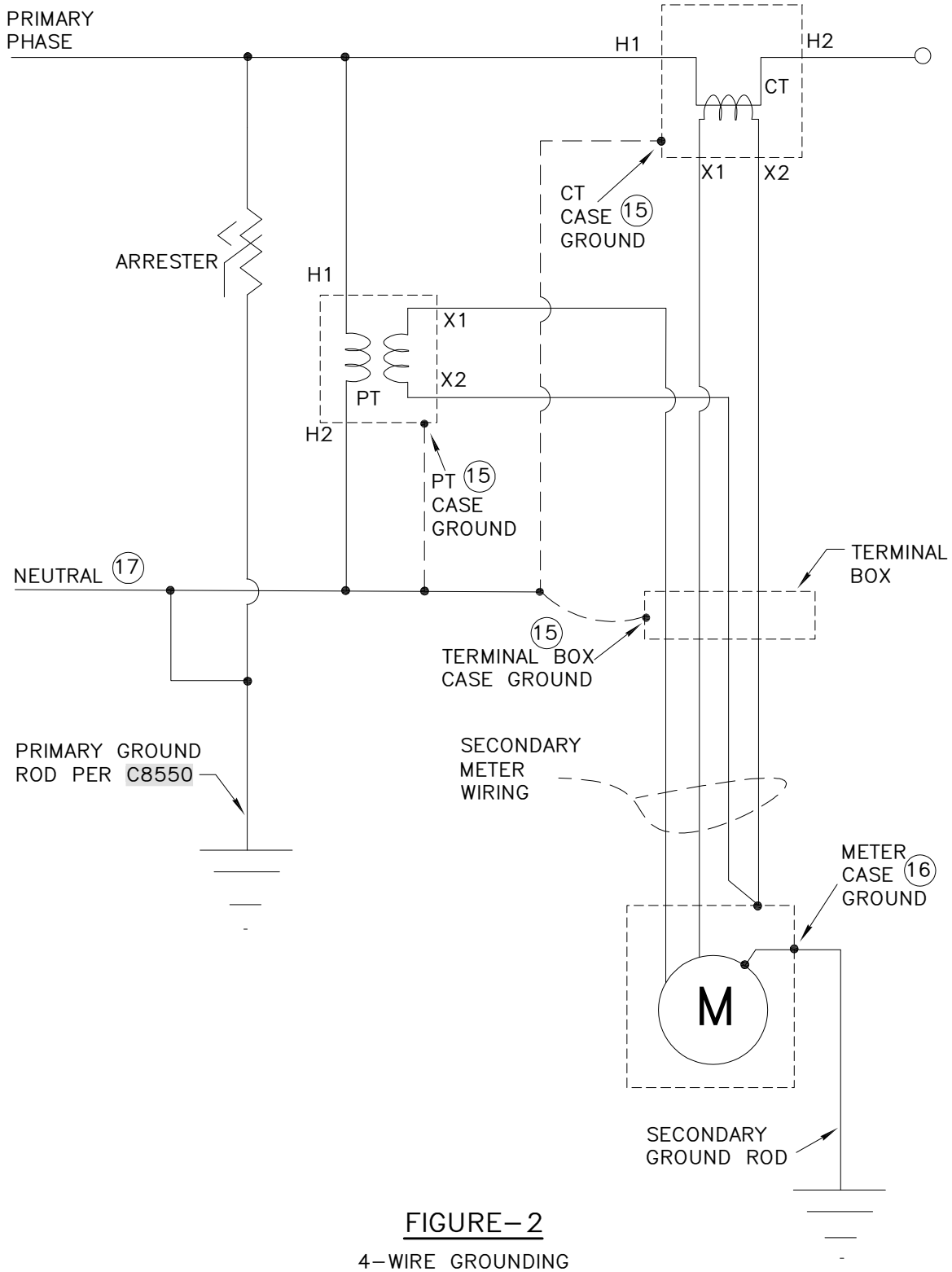

FIGURE-2

4-WIRE GROUNDING

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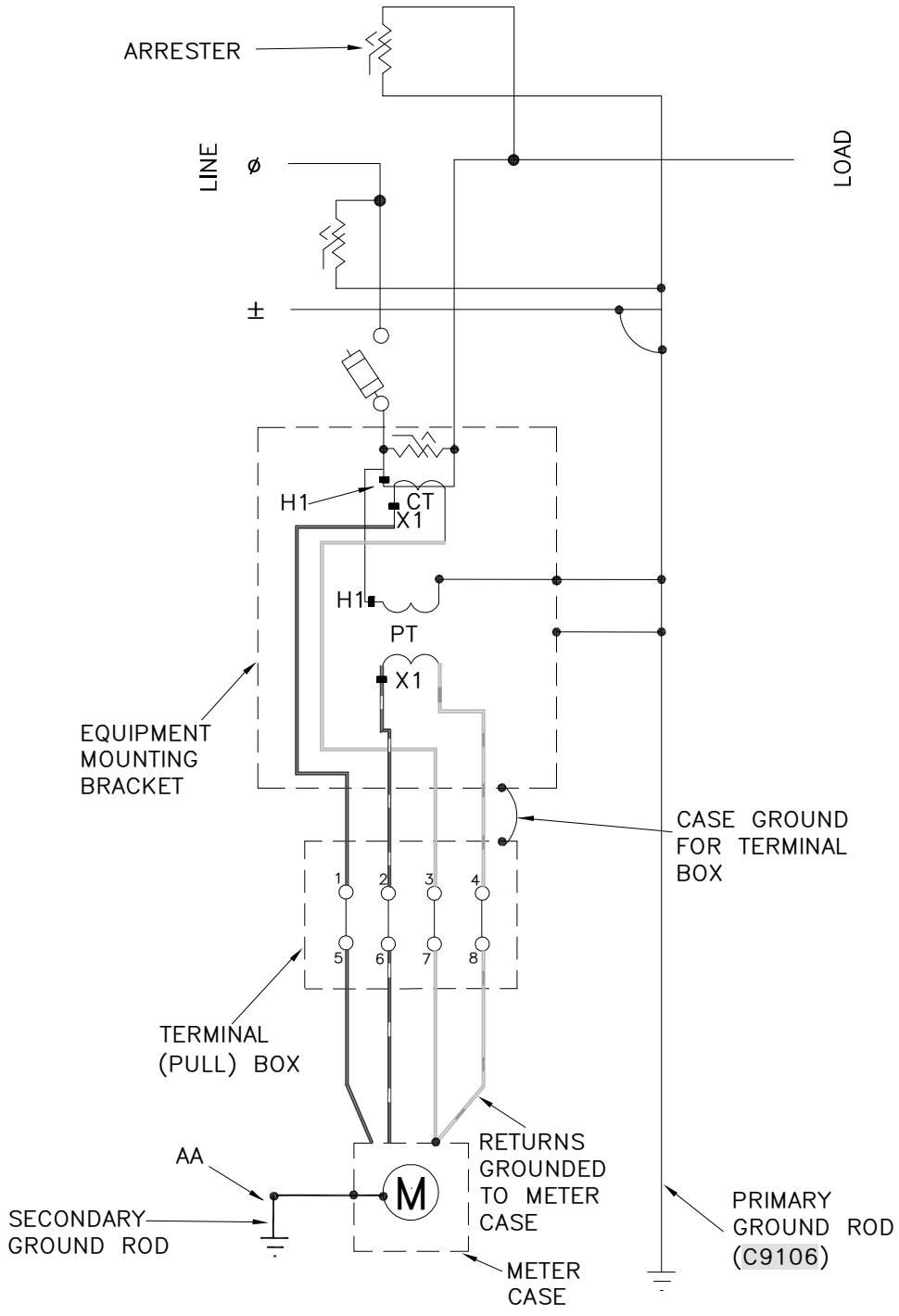

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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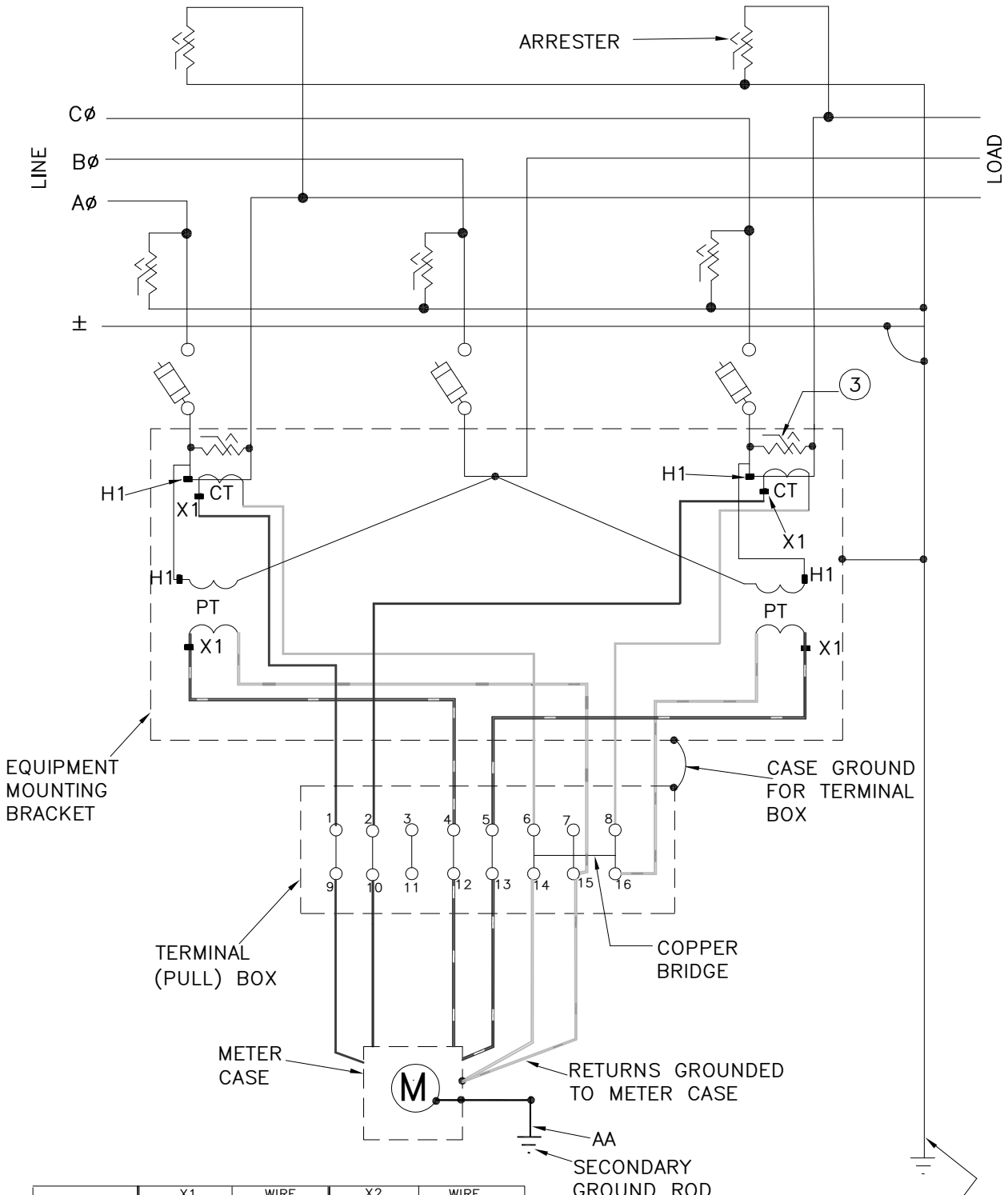

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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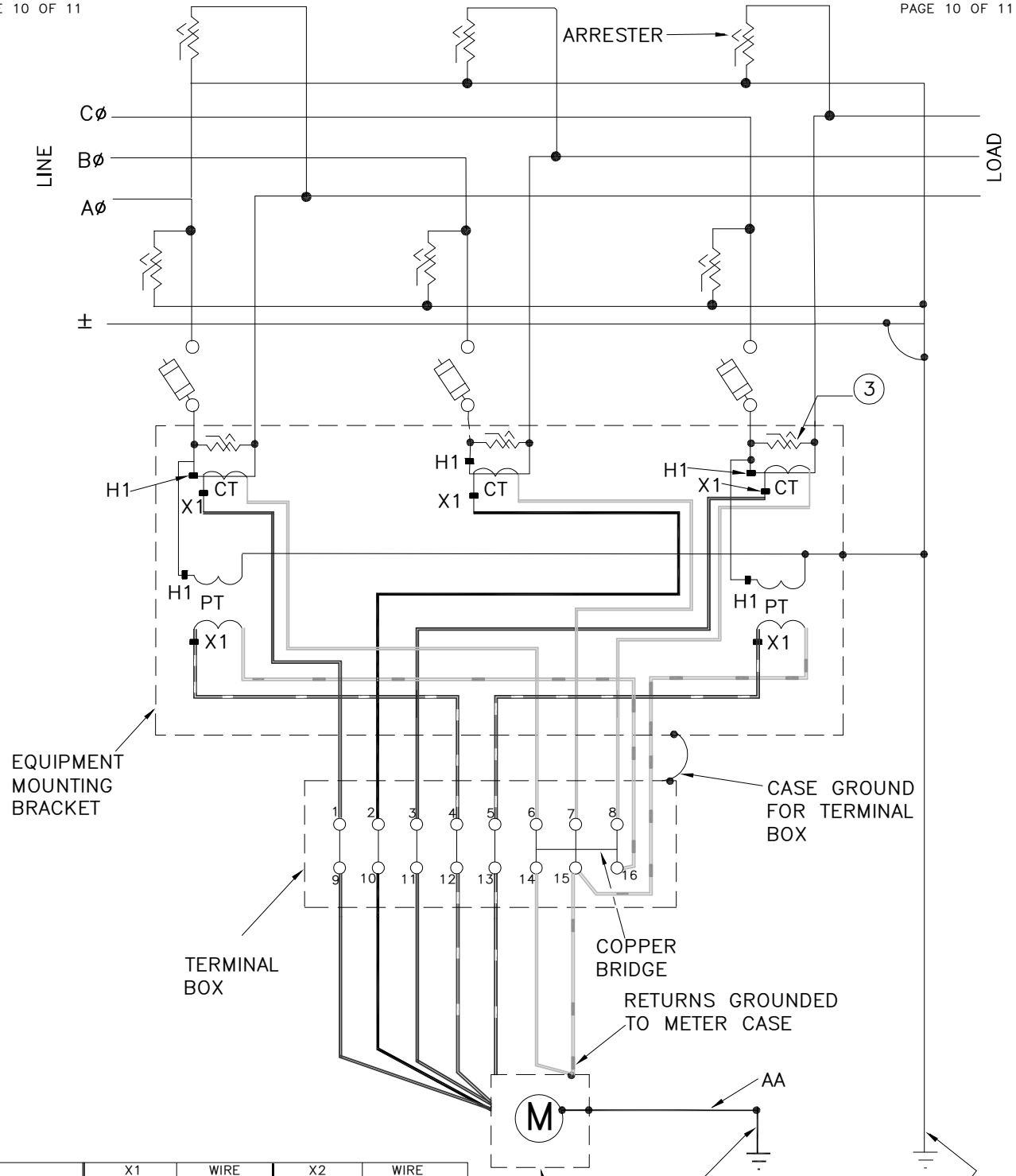

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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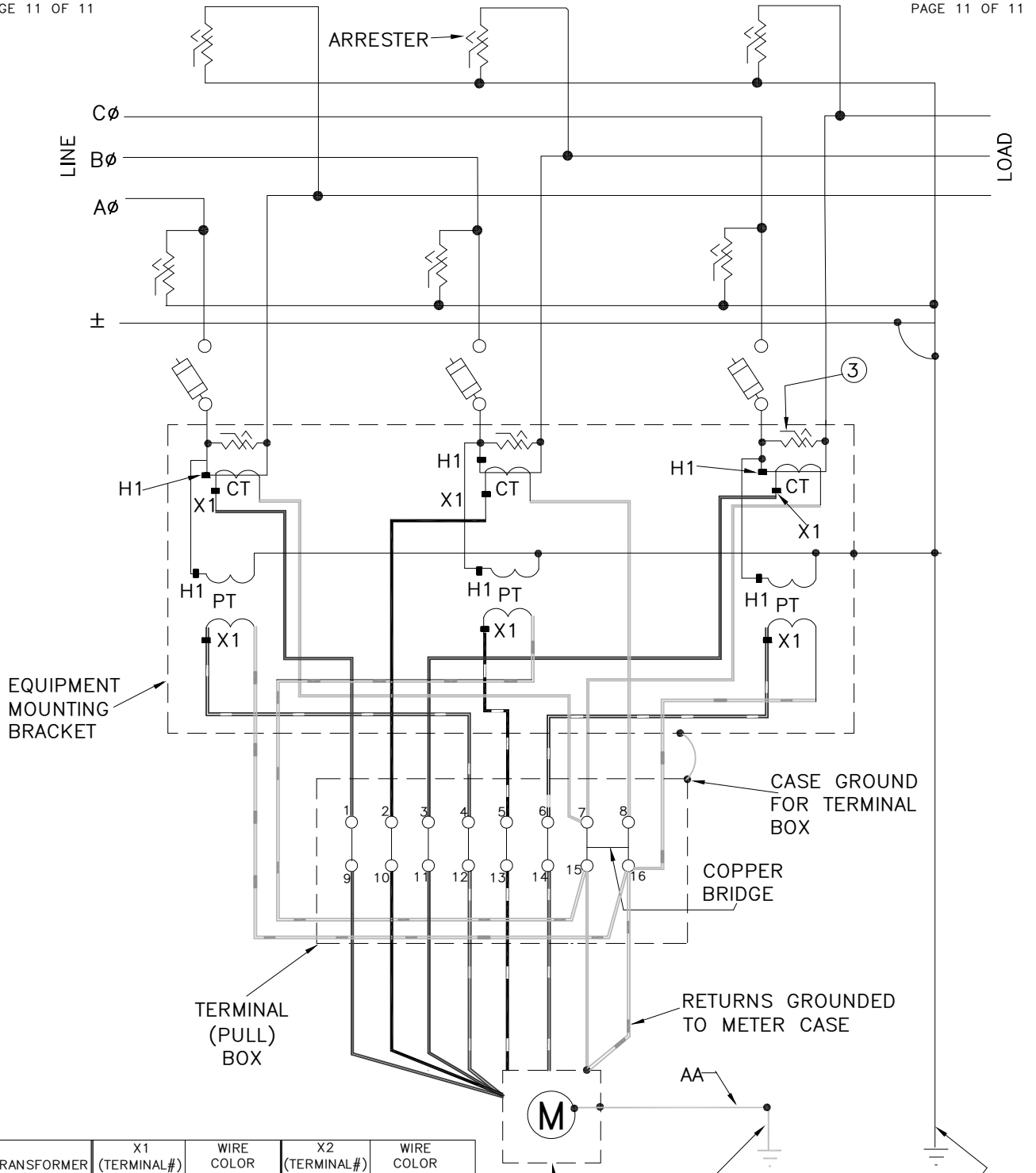

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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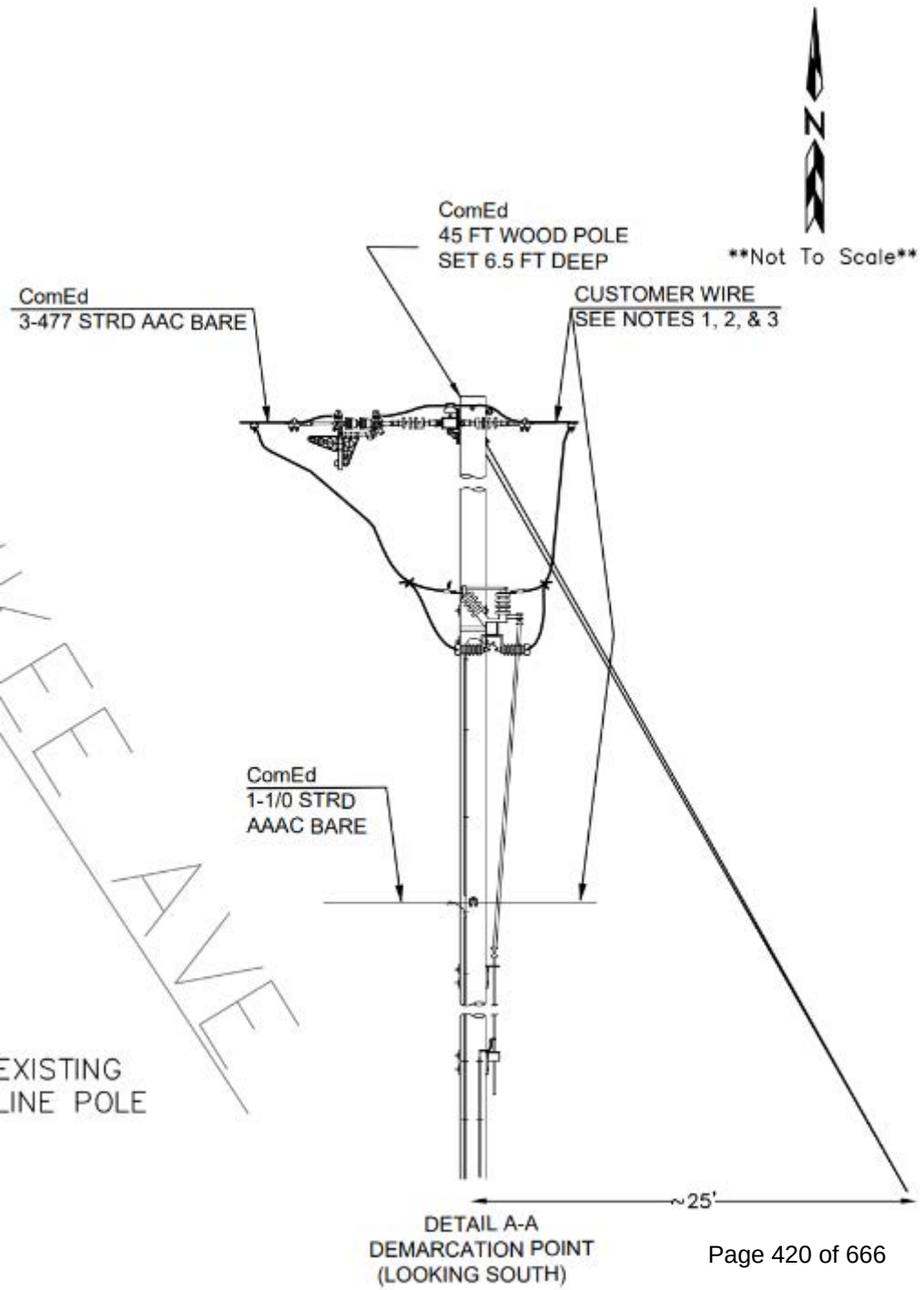

DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



Heavy Duty Safety Switch

DH367NRK

UPC:782113639277

Dimensions:

- **Height:** 12.38 IN
- **Length:** 57.5 IN
- **Width:** 27.5 IN

Weight:210 LB

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** Single-Throw
- **Amperage Rating:** 800A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class L fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Three-pole
- **Number Of Wires:** Four-wire
- **Product Category:** Heavy Duty, Fusible with neutral
- **Voltage Rating:** 600V
- **Max Hp Rating:** 500 at 480 Vac TD 3 Ph, 500 at 600 Vac TD 3 Ph

Supporting documents:

- Eatons Volume 2-Commercial Distribution
- Eaton Specification Sheet - DH367NRK

Certifications:

- UL Listed

Product compliance: No Data

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Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

INVERTER



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	**SE80KUS**	**SE50KUS**	**SE100KUS**	**SE110KUS**	**SE120KUS**	**UNITS**
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					˚F / ˚C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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CE

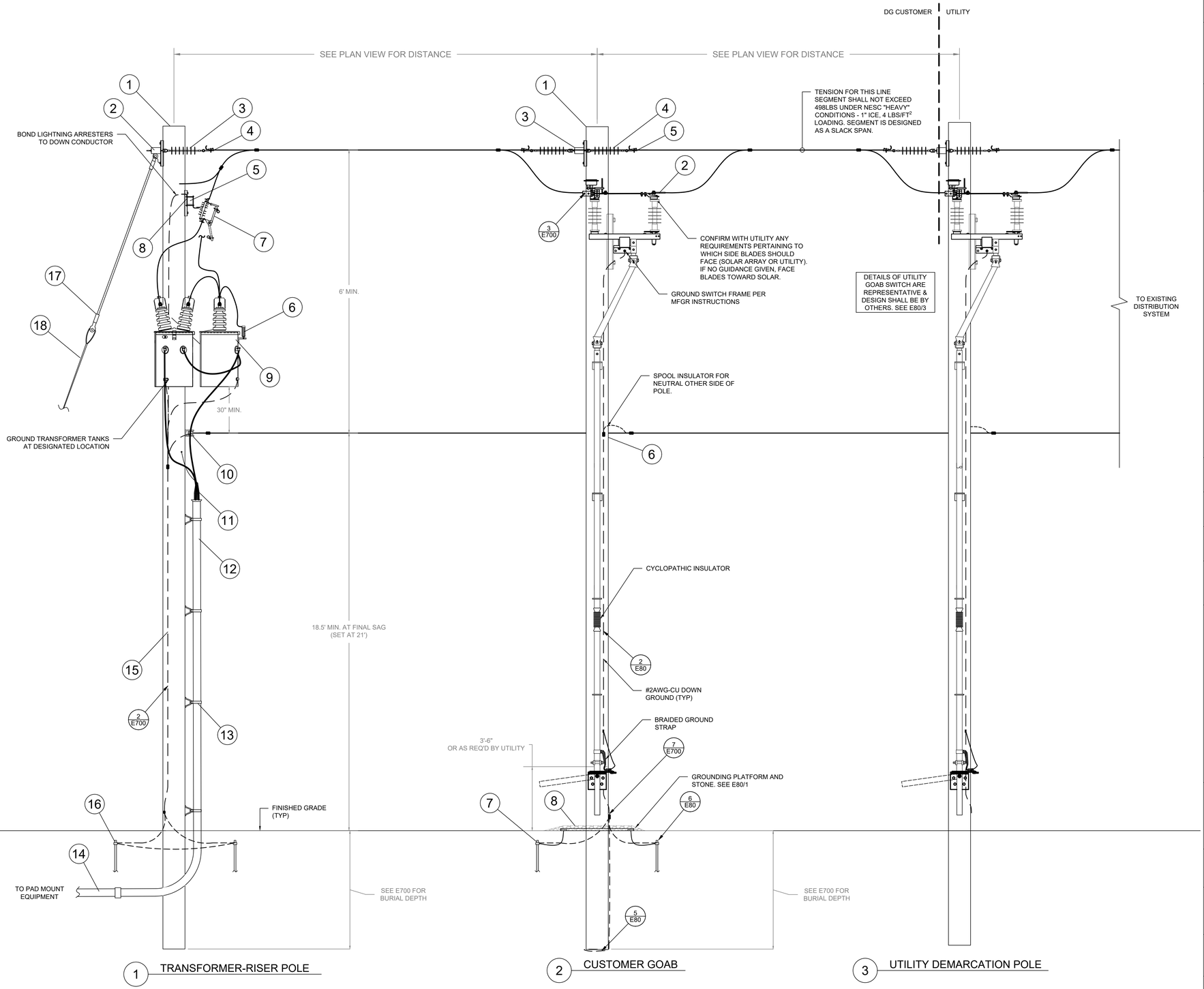
solaredge

RISER POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	Dead End Cross Arm	8' Fiberglass
3	3	Dead End Insulator	15kV Polymer
4	3	Strain Clamps	Coordinate with Supply Conductors; See table
5	2	Tangent Cross Arm	8' Fiberglass
6	3	Surge Arrester w/ Wildlife Covers	Riser Class. See line diagram for MCOV rating.
7	3	Polymer Fused Cutout with mounting hardware	100A body, see line diagram for ampere rating and speed.
8	3	Cutout Bracket	Cutout bracket for crossarm
9	3	Liquid Filled Pole Mount Transformers	KVA varies by site. Provide wildlife protectors if not furnished with transformer.
10	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
11	1	Cable Grip	Basket style cable grip--attach to pole with lag bolt to support conductors
12	20'	Schedule 80 PVC Conduit	Note: parallel conductors must be separated unless specifically allowed.
13	As needed	Conduit standoff supports	Coordinate with riser conduit size and quantity.
14	As needed	Schedule 40 PVC Conduit	After 90° fitting - to pad mounted equipment.
15	As needed	#2AWG-CU Solid	Ground/Down Conductor
16	2	Ground Rod	5/8" x 10' Coppperweld
17	1	Fiberglass guy strain	10' or as needed to extend past exposed live parts
18	As needed	Guy Wire	3/8" EHS Galvanized with preform grips
19	1	Guy Wire Guard	Yellow, 8' minimum
20	1	Guy Anchor	As required for loading and soil conditions. 10" dia. Helix, 1-1/4" x 96" rod min.
	As needed	Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required

GOAB POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	GOAB Switch	15kV, 600A, Horizontal Configuration, Ground Operator - Torsional, 1.5" OD Pipe Control
3	1	Dead End Cross Arm	8' Fiberglass
4	6	Dead End Insulator	15kV Polymer
5	6	Strain Clamps	Coordinate with Supply Conductors
6	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
7	2	Ground Rod	5/8" x 10' Coppperweld
8	1	Galvanized Steel Grate & #2 Stone	See detail Sheet E700
	As needed	ACSR Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	6	Compression Fittings for GOAB	2-hole NEMA. Coordinate with Supply Conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	#2AWG-CU Solid	Ground/Down Conductor
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required
	1	Padlock for LOTO	If required by utility/owner
	Lot	Labels	"PHOTOVOLTATIC (SOLAR) AC DISCONNECT", Site Plan Label, others as required by utility.



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solarlandscape

EXACTUS ENERGY
NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
OF ILLINOIS
Exp. 11/30/25

TYPICAL MV ELEVATIONS ILLINOIS PORTFOLIO

DRAWN BY
JS

CHECKED BY

DATE
23-Sep-2024

DRAWING LEVEL
ISSUED FOR CONSTRUCTION

REV.	DATE	DRAWING LEVEL
A		
B		
C		
D		
E		

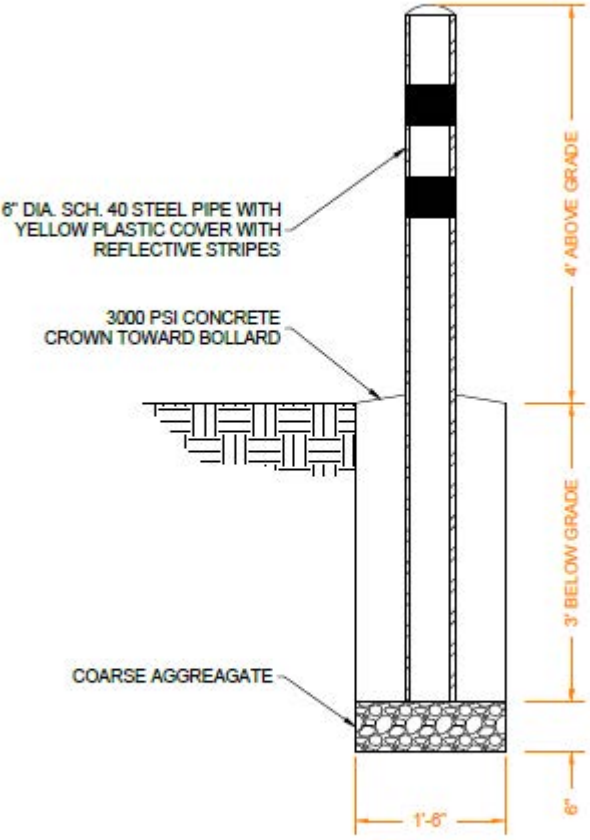
SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
NTS

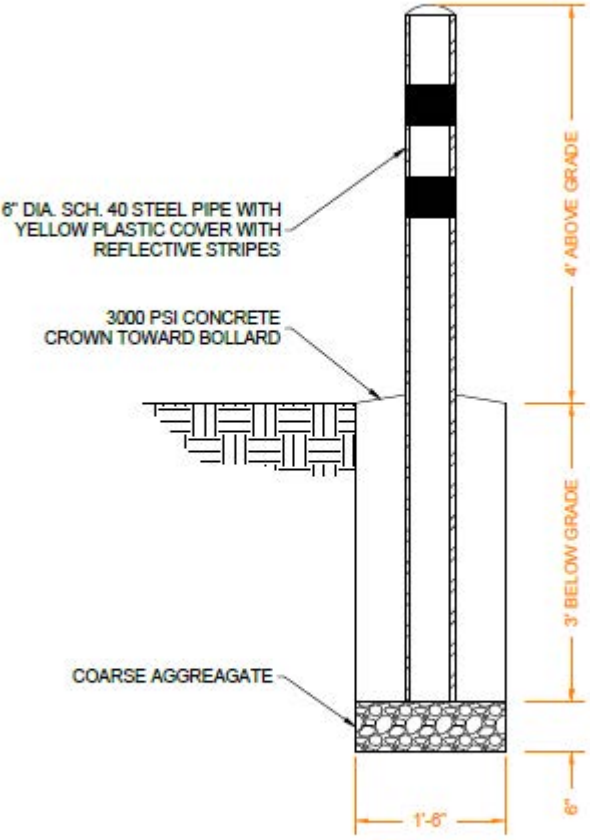
SHEET TITLE

E81

MEDIUM VOLTAGE ELEVATIONS



2 / E12 BOLLARD DETAILS
SCALE: 1:12



2 / E12 BOLLARD DETAILS
SCALE: 1:12

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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C9105
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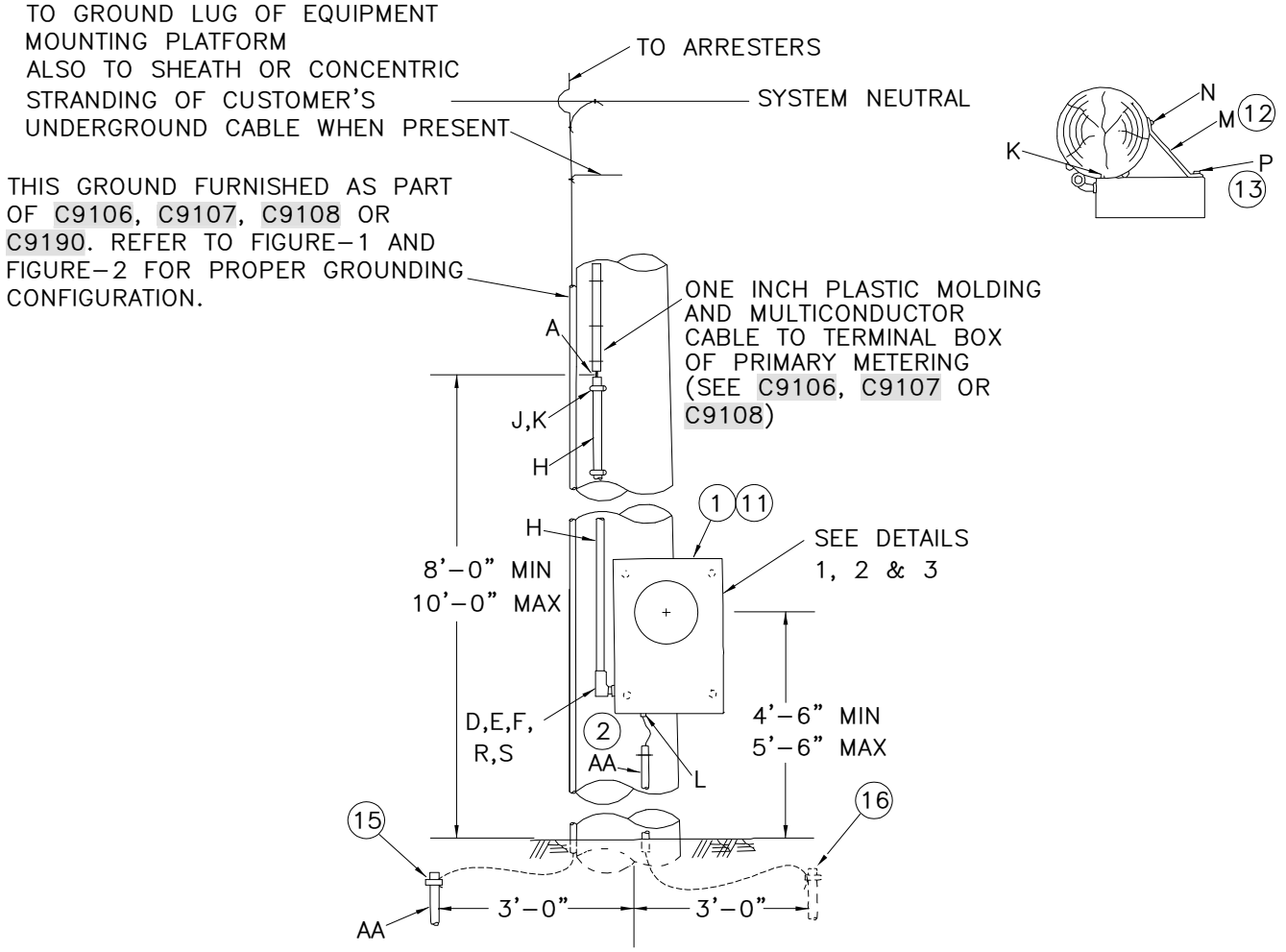
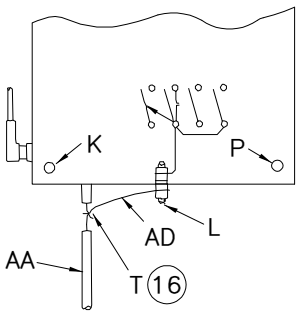
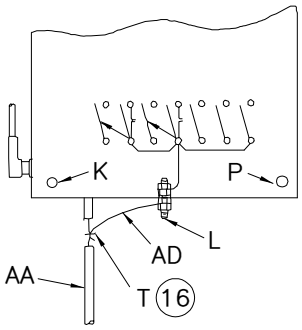


C9105.1_

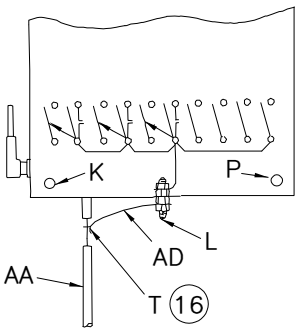
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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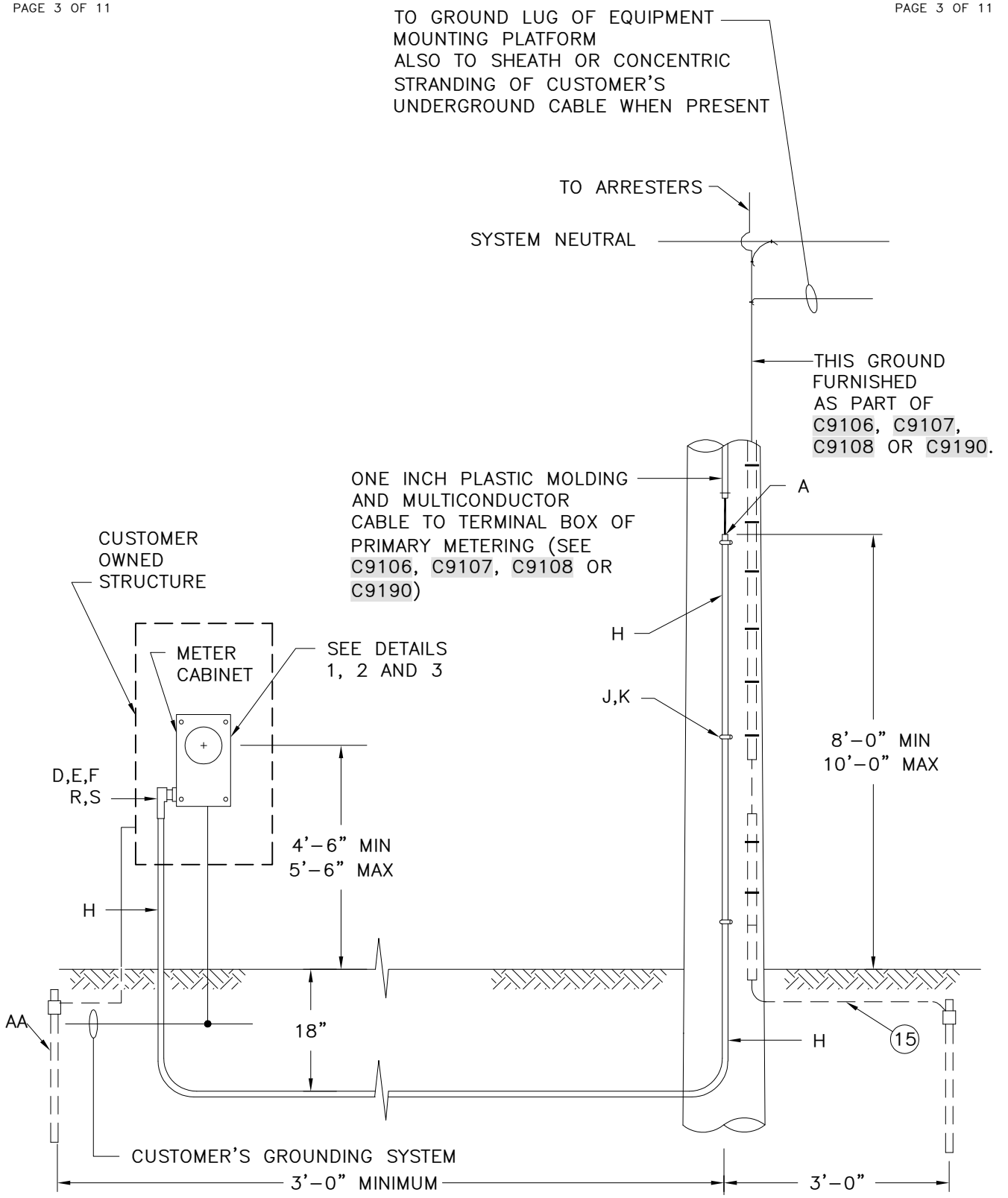

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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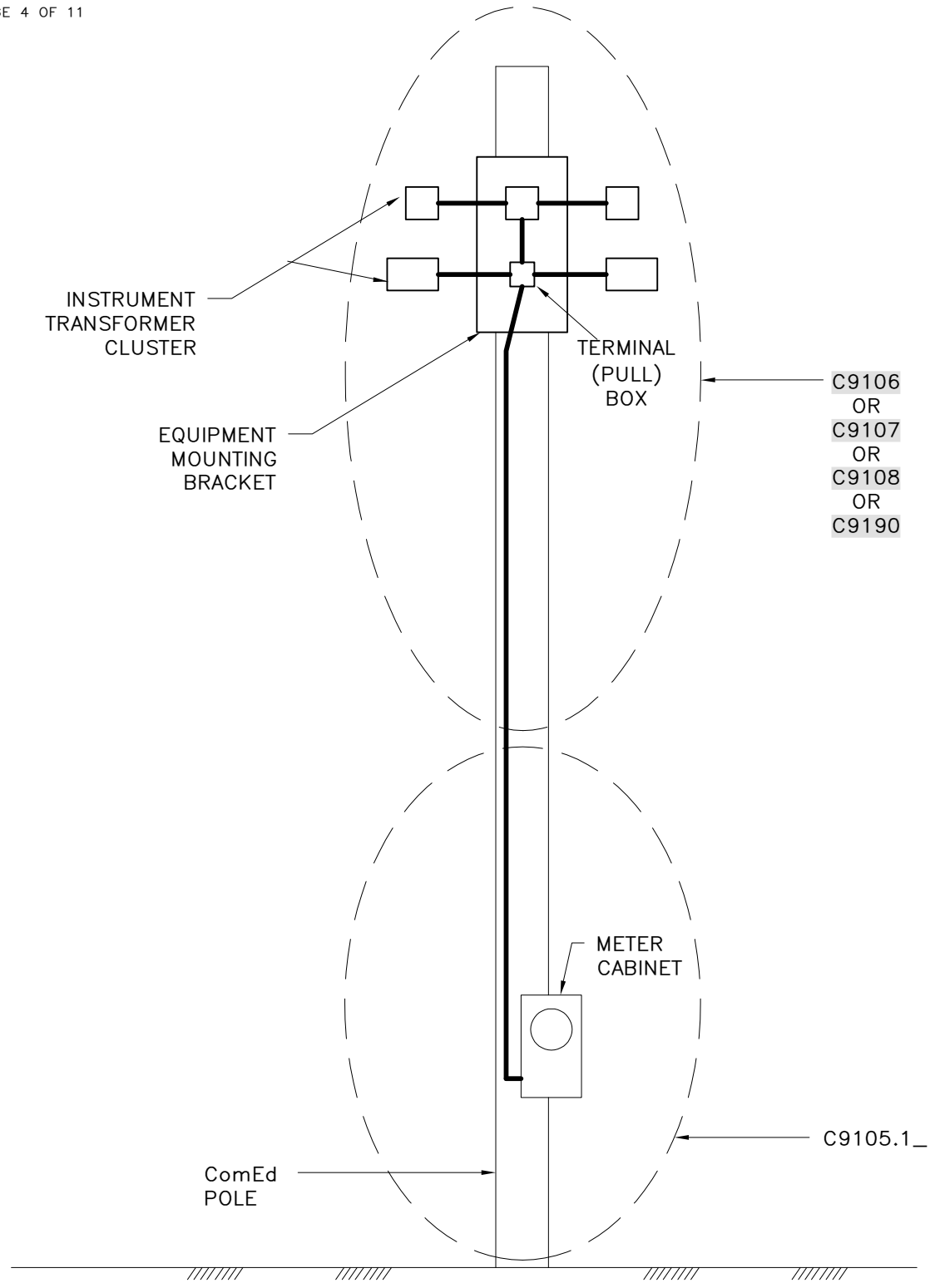

DETAIL-4

METER ON PRIMARY METERING POLE

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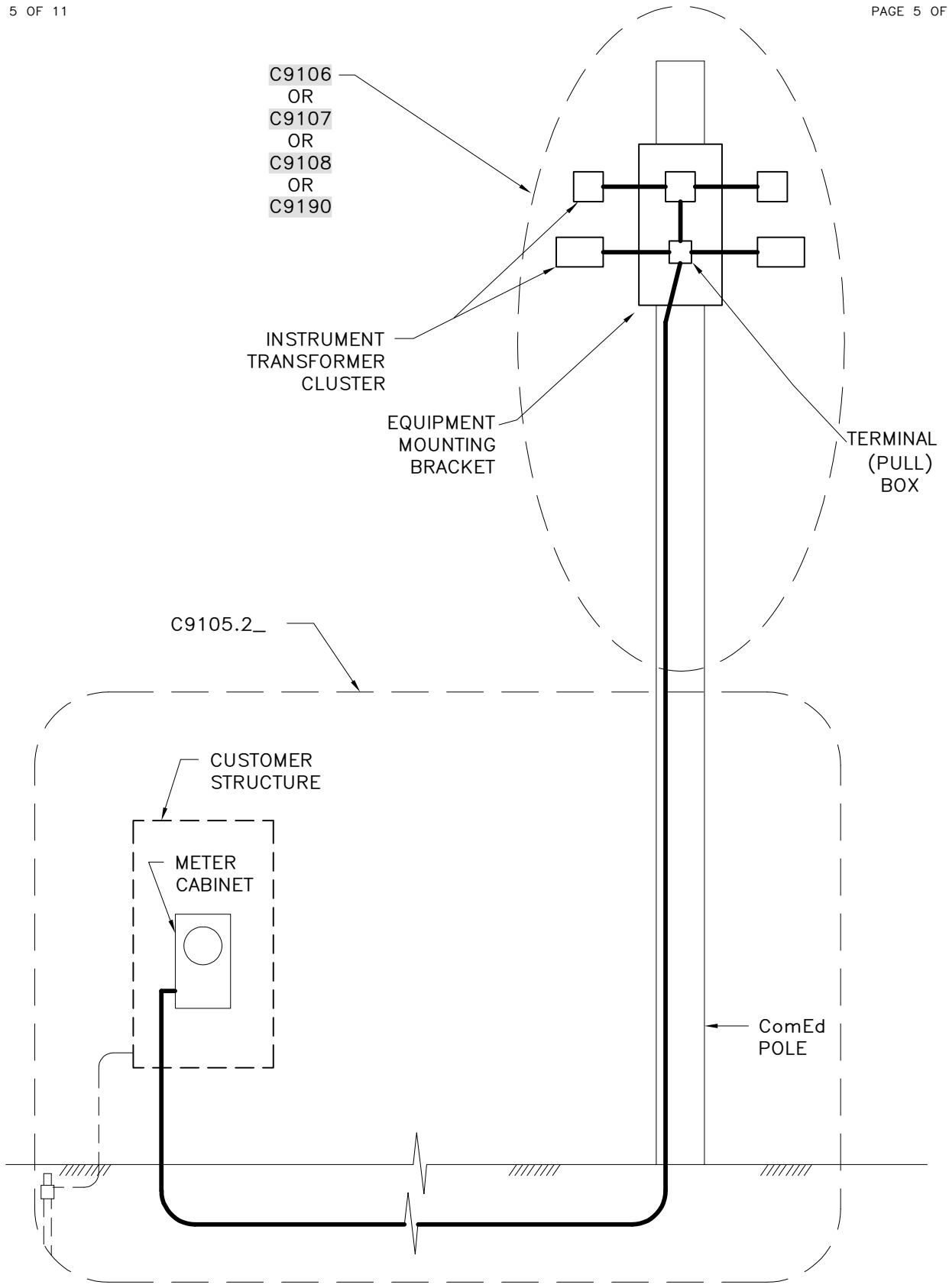

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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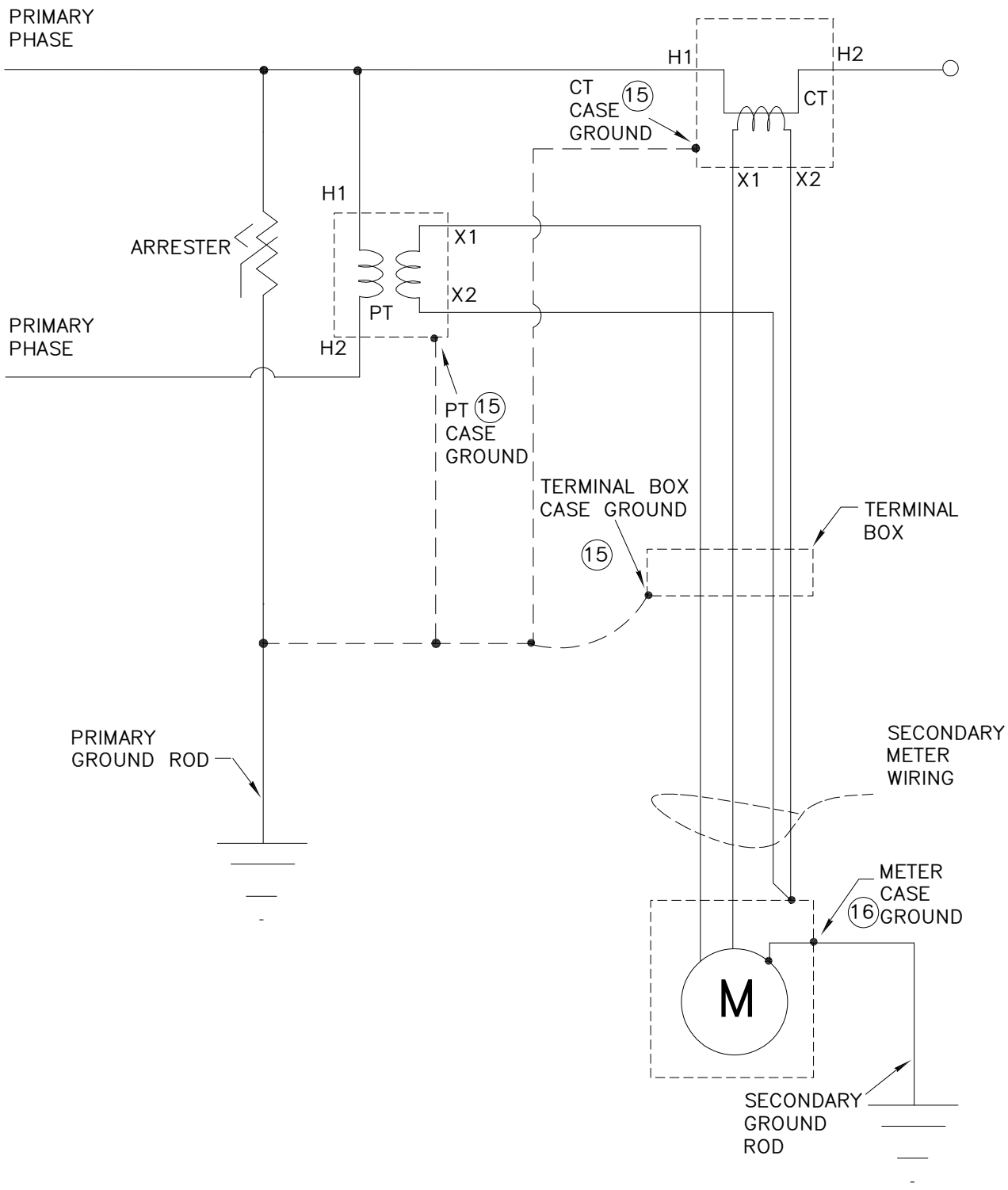

FIGURE-1

3-WIRE GROUNDING

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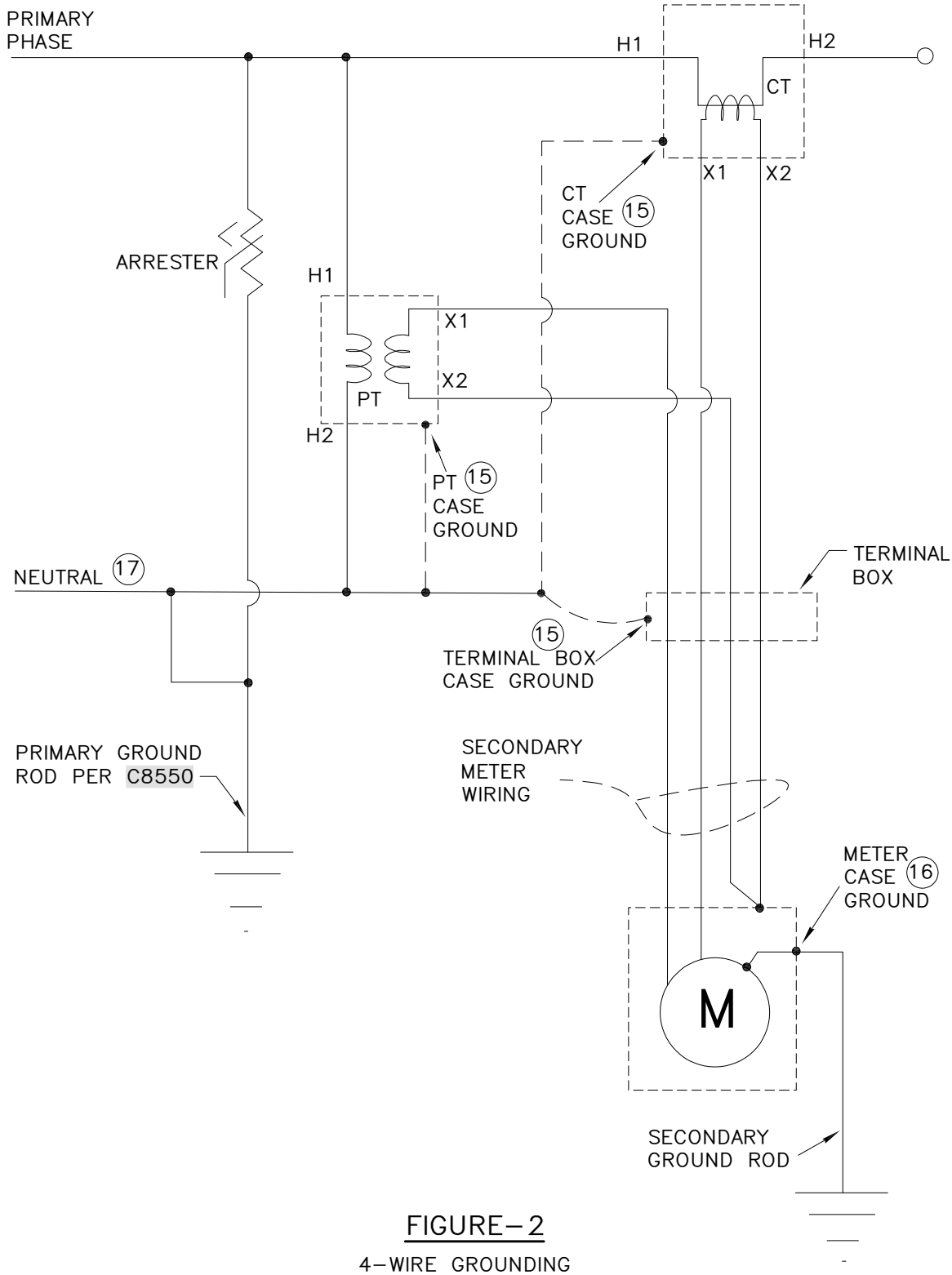

FIGURE-2

4-WIRE GROUNDING

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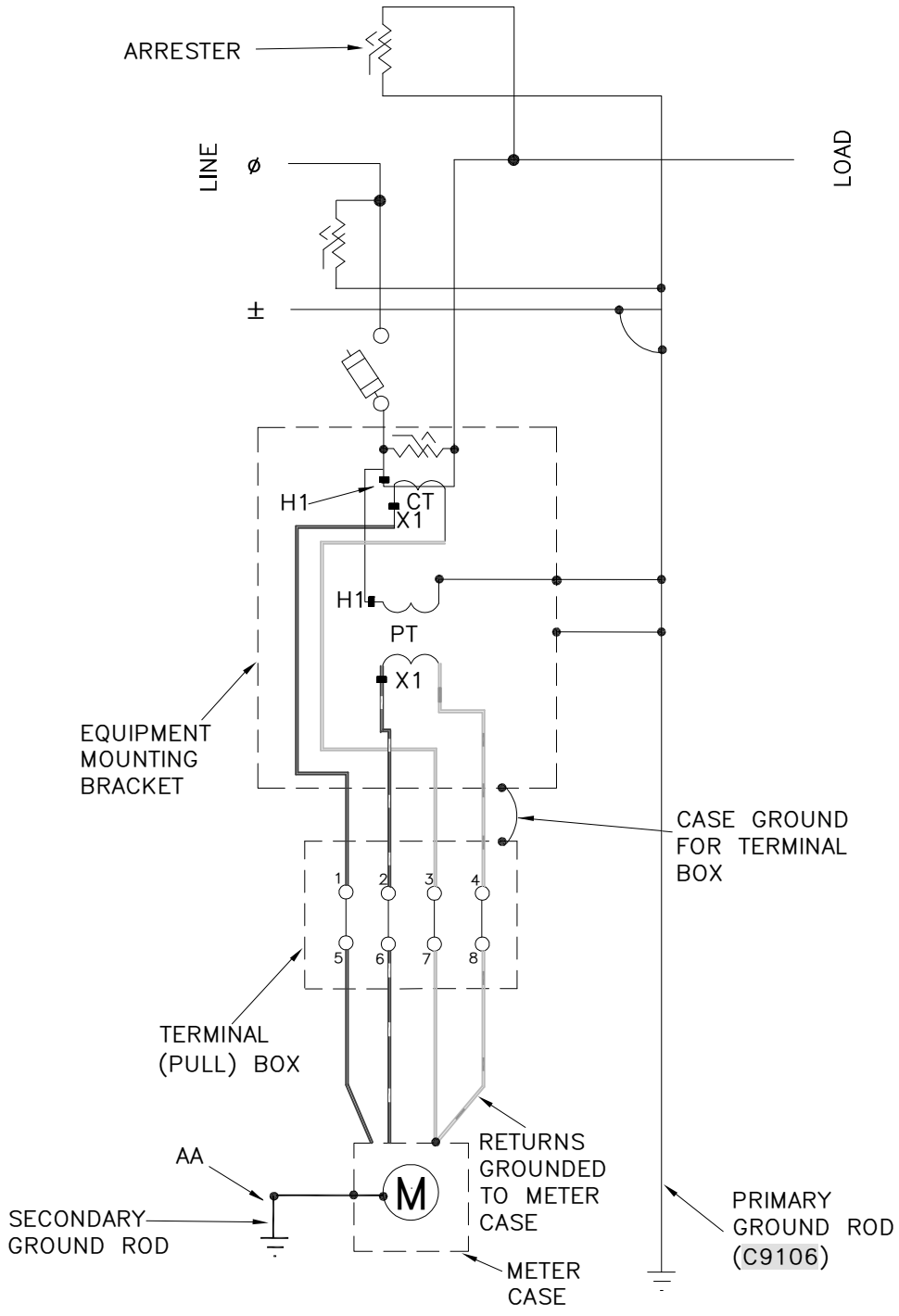

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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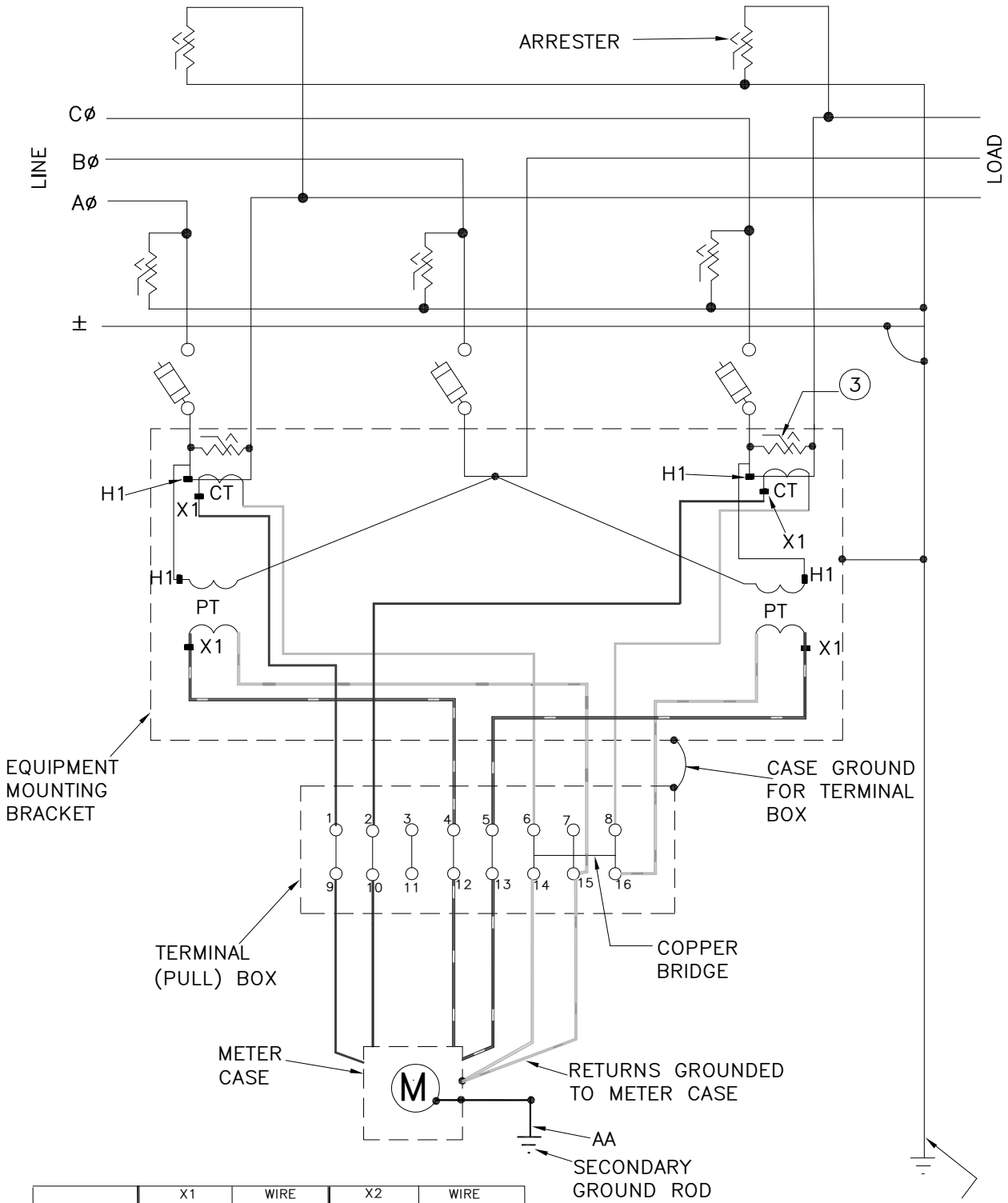

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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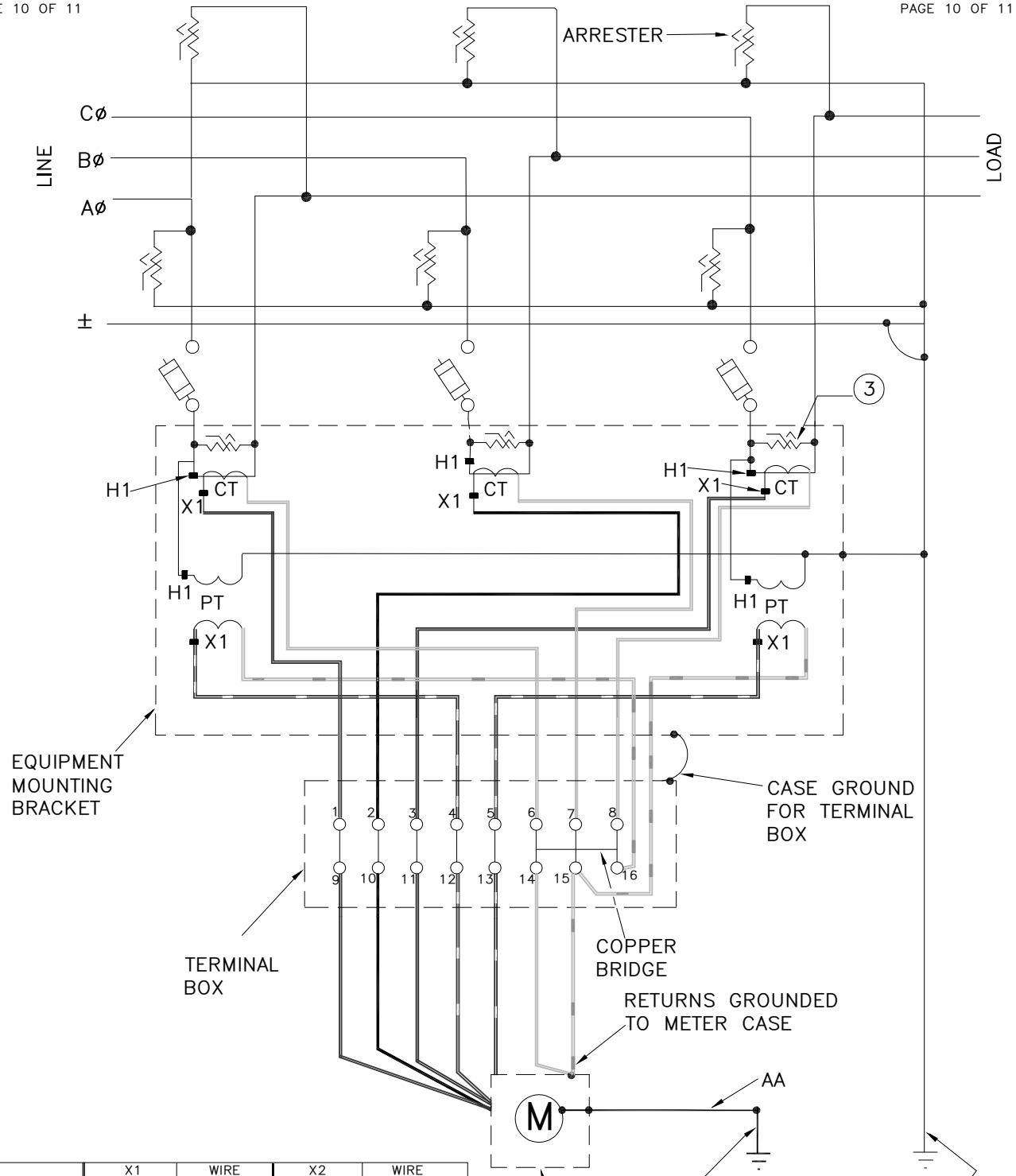

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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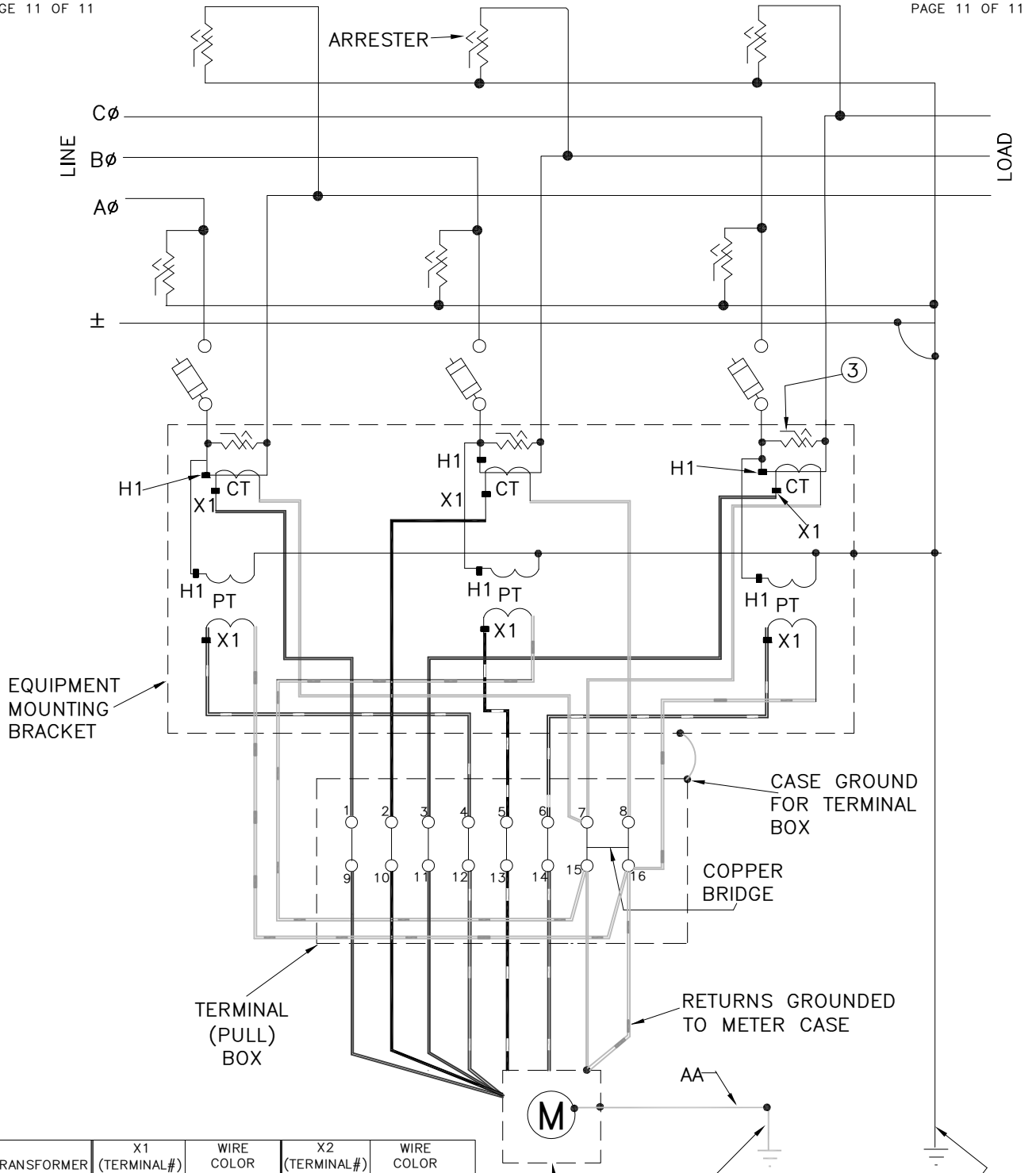

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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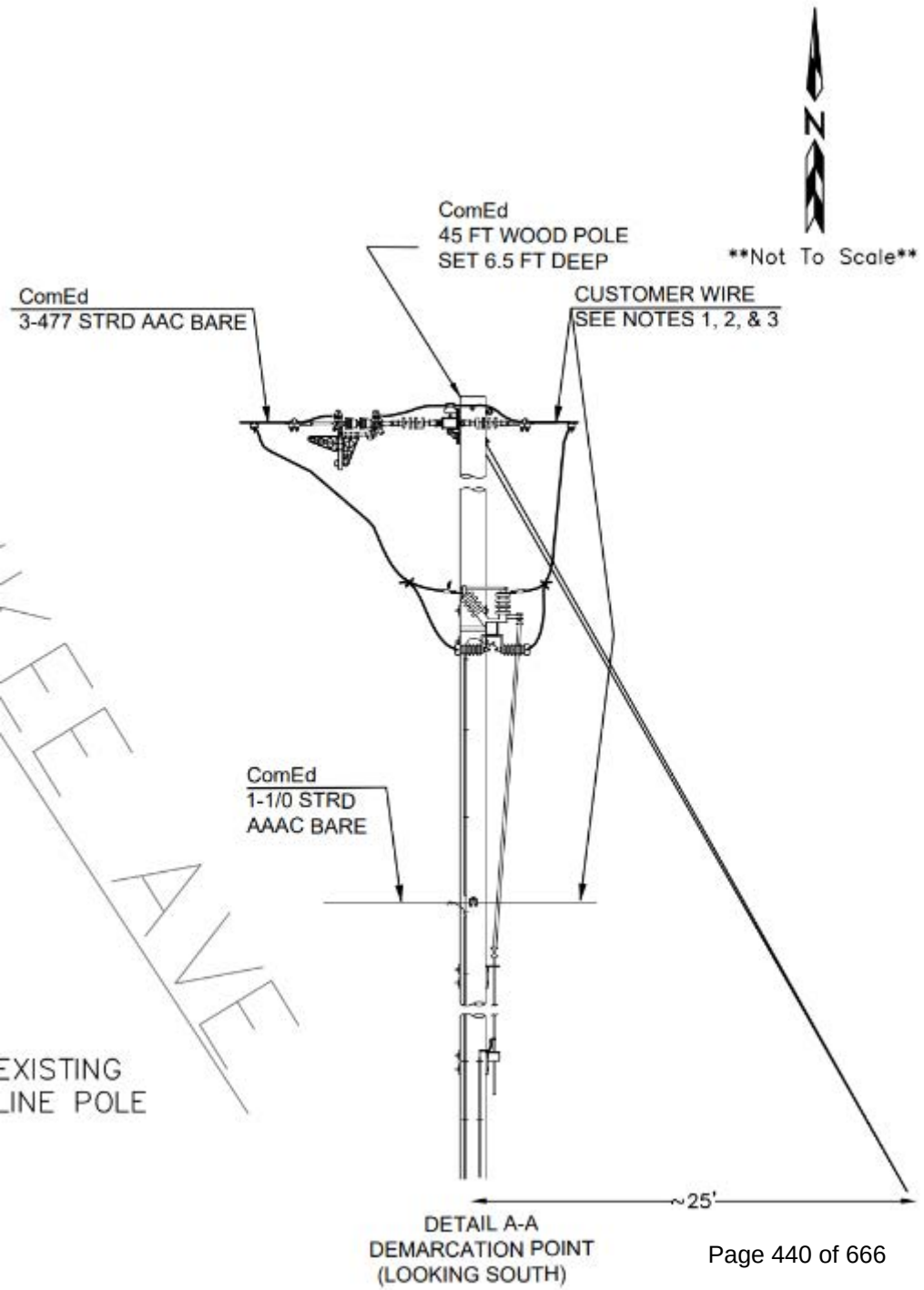
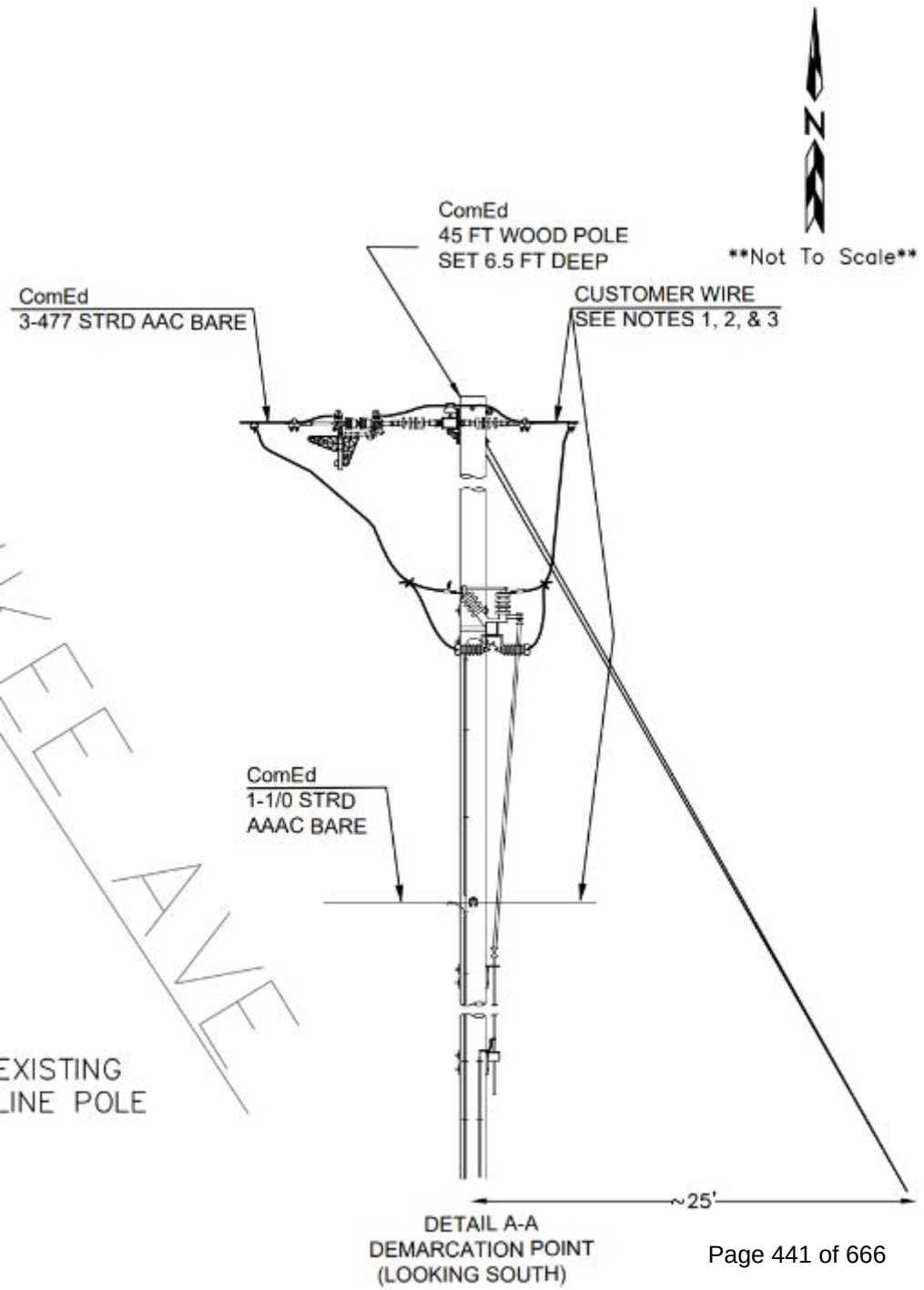


DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



Heavy Duty Safety Switch

DH367NRK

UPC:782113639277

Dimensions:

- **Height:** 12.38 IN
- **Length:** 57.5 IN
- **Width:** 27.5 IN

Weight:210 LB

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** Single-Throw
- **Amperage Rating:** 800A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class L fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Three-pole
- **Number Of Wires:** Four-wire
- **Product Category:** Heavy Duty, Fusible with neutral
- **Voltage Rating:** 600V
- **Max Hp Rating:** 500 at 480 Vac TD 3 Ph, 500 at 600 Vac TD 3 Ph

Supporting documents:

- Eatons Volume 2-Commercial Distribution
- Eaton Specification Sheet - DH367NRK

Certifications:

- UL Listed

Product compliance: No Data

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Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

INVERTER



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					˚F / ˚C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

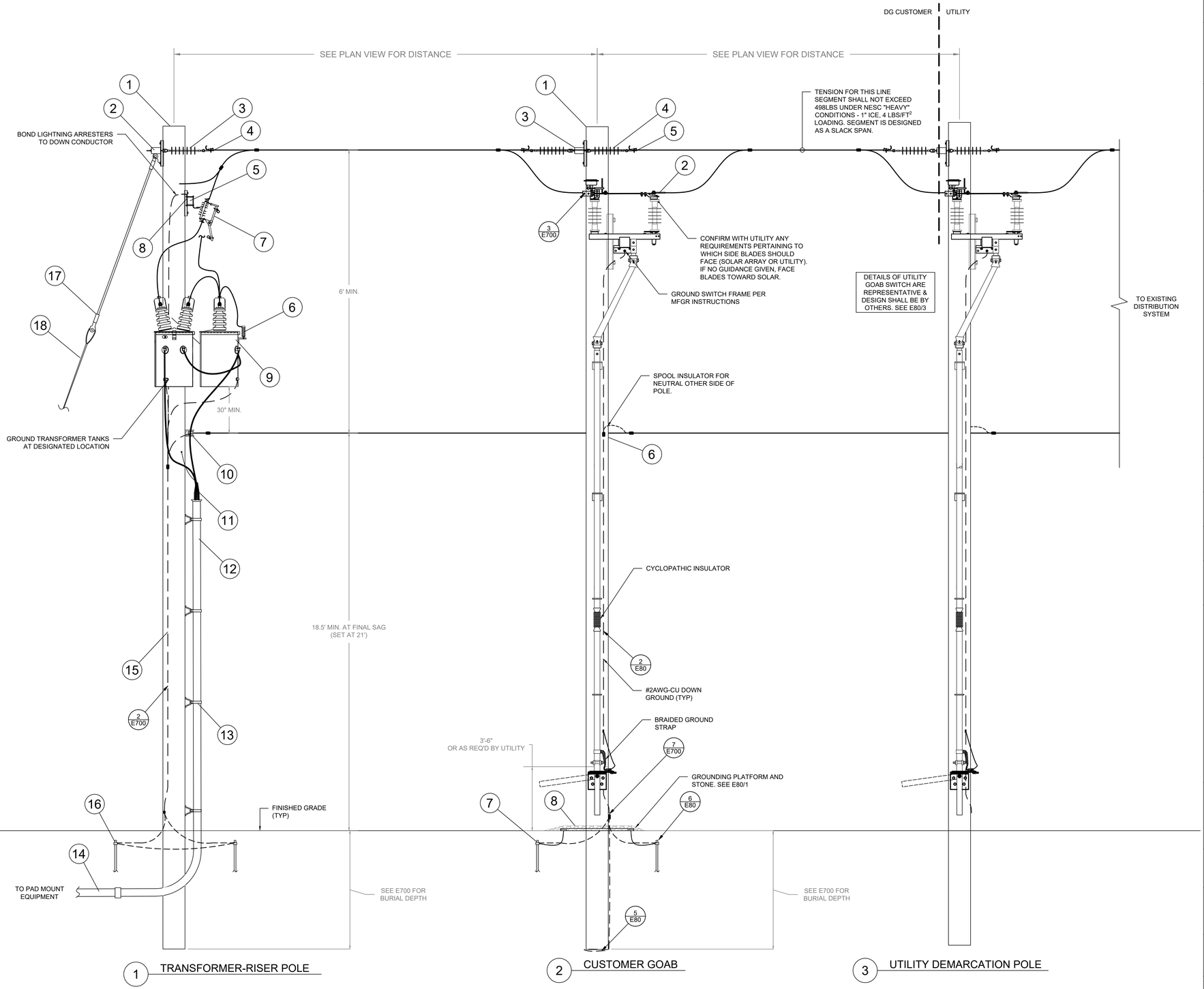
solaredge

RISER POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	Dead End Cross Arm	8' Fiberglass
3	3	Dead End Insulator	15kV Polymer
4	3	Strain Clamps	Coordinate with Supply Conductors; See table
5	2	Tangent Cross Arm	8' Fiberglass
6	3	Surge Arrester w/ Wildlife Covers	Riser Class. See line diagram for MCOV rating.
7	3	Polymer Fused Cutout with mounting hardware	100A body, see line diagram for ampere rating and speed.
8	3	Cutout Bracket	Cutout bracket for crossarm
9	3	Liquid Filled Pole Mount Transformers	KVA varies by site. Provide wildlife protectors if not furnished with transformer.
10	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
11	1	Cable Grip	Basket style cable grip--attach to pole with lag bolt to support conductors
12	20'	Schedule 80 PVC Conduit	Note: parallel conductors must be separated unless specifically allowed.
13	As needed	Conduit standoff supports	Coordinate with riser conduit size and quantity.
14	As needed	Schedule 40 PVC Conduit	After 90° fitting - to pad mounted equipment.
15	As needed	#2AWG-CU Solid	Ground/Down Conductor
16	2	Ground Rod	5/8" x 10' Coppperweld
17	1	Fiberglass guy strain	10' or as needed to extend past exposed live parts
18	As needed	Guy Wire	3/8" EHS Galvanized with preform grips
19	1	Guy Wire Guard	Yellow, 8' minimum
20	1	Guy Anchor	As required for loading and soil conditions. 10" dia. Helix, 1-1/4" x 96" rod min.
	As needed	Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required

GOAB POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	GOAB Switch	15kV, 600A, Horizontal Configuration, Ground Operator - Torsional, 1.5" OD Pipe Control
3	1	Dead End Cross Arm	8' Fiberglass
4	6	Dead End Insulator	15kV Polymer
5	6	Strain Clamps	Coordinate with Supply Conductors
6	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
7	2	Ground Rod	5/8" x 10' Coppperweld
8	1	Galvanized Steel Grate & #2 Stone	See detail Sheet E700
	As needed	ACSR Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	6	Compression Fittings for GOAB	2-hole NEMA. Coordinate with Supply Conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	#2AWG-CU Solid	Ground/Down Conductor
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required
	1	Padlock for LOTO	If required by utility/owner
	Lot	Labels	"PHOTOVOLTATIC (SOLAR) AC DISCONNECT", Site Plan Label, others as required by utility.



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solarlandscape

EXACTUS ENERGY
NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
OF ILLINOIS
Exp. 11/30/25

TYPICAL MV ELEVATIONS ILLINOIS PORTFOLIO

DRAWN BY
JS

CHECKED BY

DATE
23-Sep-2024

DRAWING LEVEL
ISSUED FOR CONSTRUCTION

REV.	DATE	DRAWING LEVEL
A		
B		
C		
D		
E		

SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
NTS

SHEET TITLE

E81

MEDIUM VOLTAGE ELEVATIONS

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PSPMIN26-0004, Request for Minor Site Plan and Appearance Approval for Construction of Ground-Mounted Equipment Associated with a Proposed Rooftop Solar Collection System for Cubesmart, L.P. (1004 S. Milwaukee Avenue).

RECOMMENDED ACTION: **Approve Docket No. PSPMIN26-0004,** granting minor site plan and appearance approval for the construction of ground-mounted equipment associated with a 600 kW rooftop solar collection system for Cubesmart, L.P. located at 1004 S. Milwaukee Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, Site Plan and Building Appearance Approval Requirements, and associated sections, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/27/2026; Equipment Specifications; and Fence Specifications; and subject to the following conditions:

1. Minor Site Plan and appearance approval is contingent upon approval of Docket No. PV25-0015, a variation to permit a decrease in the minimum required side yard setback from 15 feet to 0.5 feet for the installation of ground-mounted equipment.

2. The petitioner shall obtain a floodplain permit prior to the issuance of any Village construction.

3. The height and location of the proposed utility poles shall be installed in accordance with all applicable FAA obstruction standards and any restrictions imposed by the Chicago Executive Airport to ensure no hazard to air navigation.

4. The petitioner shall complete the FAA Form 7460 Airspace Determination process and receive written authorization, as required by the Chicago Executive Airport, prior to receiving any Village permits.

5. The utility poles shall include aviation marking and/or lighting if required by the FAA or Chicago Executive Airport, now or in the future.

6. The petitioner shall coordinate with all applicable utility providers to ensure proper placement, clearances, and compliance with utility standards, including overhead and underground conflicts.

7. The installation shall not obstruct sightlines for vehicular or pedestrian traffic and shall comply with all applicable roadway safety standards.

EXECUTIVE SUMMARY

GENERAL PROPERTY INFORMATION

Petitioner: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner

Location: 1004 S. Milwaukee Avenue

Property size: 3.07 acres / 55,774 sq. ft. (buildings)

Neighboring Property Land Use(s):
North: Commercial
West: Residential/Airport
South: Airport
East: Open Space (across S. Milwaukee Avenue)

Existing Use of Property: Public Storage Facility (Cubesmart)

Existing Zoning: B-3 (General Commercial and Office)

Comprehensive Plan Designation: Commercial

Zoning History:

- Docket #SCBA 05-45, approved 9/22/2005, granting approval of a freestanding sign.
- Ordinance No. 4538, approved 7/12/2010, granting a variation to permit a sign to exceed 100 sq. ft. due to the addition of an electronic message center (Docket #2010-15).
- Docket #SCBA 11-59, approved 11/17/2011, granting approval for a freestanding sign and awning sign.
- Docket #SCBA 17-20, approved 4/4/2017, granting an administrative approval of a freestanding sign face change.

SUMMARY OF REQUEST

The petitioner is requesting minor site plan and appearance review for the installation of ground-mounted equipment associated with a proposed 600 kW rooftop solar collection system on the existing Cubesmart self-storage buildings located at 1004 S. Milwaukee Avenue.

In addition, the petitioner is seeking a variation to permit a decrease in the minimum required side yard setback from 15 feet to 0.5 feet for the installation of ground-mounted equipment (Docket No. PV25-0015).

Site Plan and Appearance Review

For the purposes of promoting compatible development and ensuring adequate public facilities, Site Plan and Appearance review and approval is required prior to issuance of a building permit or commencing use of land, except for single and two-family residences. Site Plan review only involves the static aspects of a site – layout, parking, landscaping, fencing, etc., and not the land use or operations of a business. Major Site Plan and Appearance review requires a concept review by the Village Board, a recommendation by the Commission, and a final decision by the Village Board. Minor Site Plan and Appearance review does not require a concept review and only requires a final decision by the Plan Commission.

The petitioner is proposing to install a 600kW rooftop solar collection system on the existing Cubesmart self-storage buildings located at 1004 S. Milwaukee Avenue, along with associated ground-mounted equipment. All proposed ground-mounted equipment will be located within the required 15-foot side yard setback along the north property line.

The proposed equipment located within the 15 foot setback includes the following:

- 72.5” tall solar disconnect switch
- 61” tall solar AC panelboard
- 40’ tall customer owned pole mount transformer & riser
- Two (2) - 40’ tall ComEd poles with 25’ guy wire
- 40’ tall utility 600 A disconnect pole
- 40’ tall utility metering customer pole
- 3PH overhead cable
- 4’ tall bollards

- 6’ tall white vinyl fence

Fence: A 6-foot-tall, white vinyl fence enclosure is proposed to screen the north, east and west sides of the mechanical equipment within the north side yard of the property. The south facing opening of the mechanical equipment will be protected with 4-foot tall bollards. The equipment and screening fence will be located east of the existing trash enclosure, which is not shown on the plan set but is identified on the attached photos and property survey. The proposed three-sided fence enclosure will be consistent with the existing trash enclosure and provide year-round screening to the property to the north, which includes a gaming establishment and residential rental units on the second floor.

Height Exception: The maximum permitted height for accessory structures in the B-3 Zoning District is 20 feet. Pursuant to Section 19.03.060 of the Village Code, the Plan Commission may grant exceptions to height limitations for certain structures, including utility poles, as part of a site plan and appearance review. Accordingly, the petitioner is requesting approval of an exception to increase the maximum permitted height from 20 feet to 40 feet to accommodate the proposed utility poles. The project contains a total of five 40’ tall utility poles, one to be installed within the Milwaukee Avenue frontage, with the remaining four to be installed within the north side yard.

Staff questions the quantity of these poles and the visual impact it will create from Milwaukee Avenue, as well as, to surrounding properties. The Commission should consider the volume of utility poles that are included in this request and the impacts that may result.

STAFF REVIEW

Fire Department Review: There are no comments related to the minor site plan and appearance review.

Engineering Division Review: The Engineering Divisions comments have been incorporated into the conditions of approval.

Staff Recommended Action: The Plan Commission should consider whether to grant an exemption to the height limitation to permit an increase in the maximum permitted height from 20 feet to 40 feet to accommodate the proposed utility poles.

Staff recommends approval, subject to the following conditions:

1. Minor Site Plan and appearance approval is contingent upon approval of Docket No. PV25-0015, a variation to permit a decrease in the minimum required side yard setback from 15 feet to 0.5 feet for the installation of ground-mounted equipment.
2. The petitioner shall obtain a floodplain permit prior to the issuance of any Village construction.
3. The height and location of the proposed utility poles shall be installed in accordance with all applicable FAA obstruction standards and any restrictions imposed by the Chicago Executive Airport to ensure no hazard to air navigation.
4. The petitioner shall complete the FAA Form 7460 Airspace Determination process and receive written authorization, as required by the Chicago Executive Airport, prior to receiving any Village permits.
5. The utility poles shall include aviation marking and/or lighting if required by the FAA or Chicago Executive Airport, now or in the future.
6. The petitioner shall coordinate with all applicable utility providers to ensure proper placement, clearances, and compliance with utility standards, including overhead and underground conflicts.
7. The installation shall not obstruct sightlines for vehicular or pedestrian traffic and shall comply with all applicable roadway safety standards.

******

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of minor site plan and appearance approval, the appropriate motion would be to:

Approve Docket No. PSPMIN26-0004, granting minor site plan and appearance approval for the construction of ground-mounted equipment associated with a 600 kW rooftop solar collection system for Cubesmart, L.P. located at 1004 S. Milwaukee Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, Site Plan and Building Appearance Approval Requirements, and associated sections, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/27/2026; Equipment Specifications; and Fence Specifications; and subject to the following conditions:

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5. The utility poles shall include aviation marking and/or lighting if required by the FAA or Chicago Executive Airport, now or in the future.

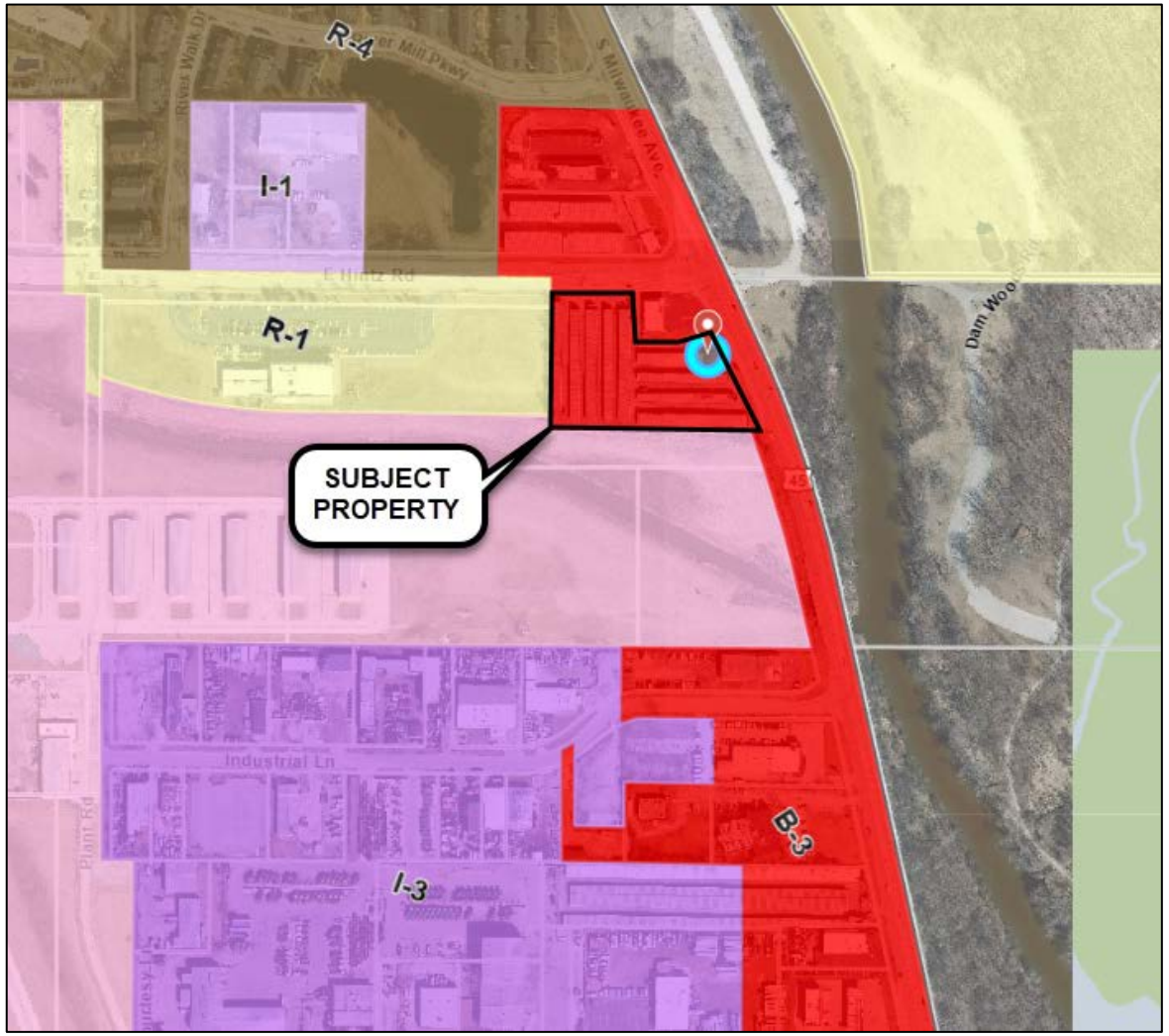
6. The petitioner shall coordinate with all applicable utility providers to ensure proper placement, clearances, and compliance with utility standards, including overhead and underground conflicts.

7. The installation shall not obstruct sightlines for vehicular or pedestrian traffic and shall comply with all applicable roadway safety standards.

ATTACHMENTS:
Attachments to Staff Report (Staff)
Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025
Plan Set prepared by Atwell, last revised 3/27/2026
Equipment Specifications
Fence Specifications



LOCATION MAP



ZONING MAP



View of North Property Line/Project Area Facing West.



View of North Property Line/Project Area Facing East.



View of the Existing Trash Enclosure on the West Side of the Project Area.

601 Bangs Ave, Suite 301
Asbury Park, NJ 07712
O. 844.765.2769
SOLARLANDSCAPE.COM

Project Narrative
1004 Milwaukee Ave, Wheeling, IL

(1) Owner and/or developer's name, phone number and address;

DEVELOPER

SOLAR LANDSCAPE LLC

601 BANGS AVENUE, SUITE 301

ASBURY PARK, NJ 07712

PHONE: (856) 437-9711

CONTACT: EMILY MCCUE

PROPERTY OWNER

CUBESMART L.P.

5 OLD LANCASTER RD

MALVERN, PA 19355

PHONE: 610-535-5407

CONTACT: ANDREA PRUDENTE

(2) Where applicable, the architect's or engineer's name, phone number and address;

CIVIL ENGINEER

ATWELL, LLC

1250 EAST DIEHL ROAD, SUITE 300

NAPERVILLE, IL 60563

PHONE: (630) 577-0800

FAX: (630) 577-0900

CONTACT: MICHAEL KEITH, P.E.

(3) Description of all proposed buildings indicating proposed uses and building size;

N/A – no new buildings proposed

Proposed Use of Existing Buildings:

Installation of a 400 kW AC rooftop community solar array on existing Cubesmart buildings on the property located at 1004 Milwaukee Ave, Wheeling, IL.

(4) Descriptions of the location, type and size of all outside signs;

No proposed monument signs. Only regulatory signs (i.e. WARNING: TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE THIS PANEL or any required regulatory signs/labels needed for the equipment).

(5) Calculations indicating the total site size, building floor area, number of parking spaces, amounts of impervious surfaces, and amount of nonimpervious green space.

N/A – no revisions to the existing property/structures

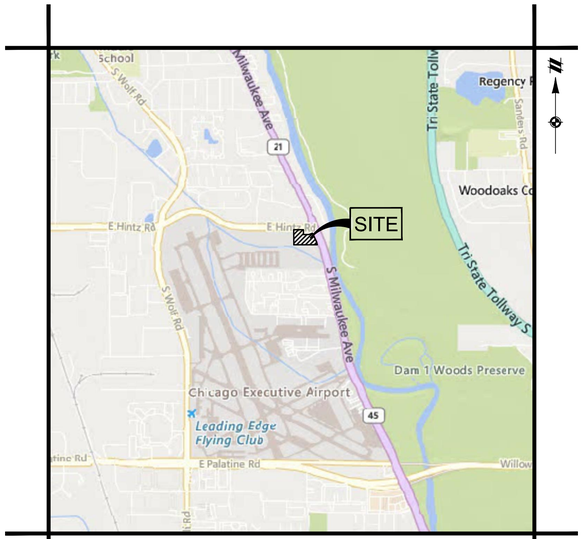
Existing Features On-Site:

- Site Area: 3.07 Acres
- Gross Floor Area of Existing Building footprints: 55,774 square feet.
- 4 marked existing parking spaces.
- Existing Impervious Area: 3.03 Acres
- Existing Non-Impervious Area: 0.04 Acres

CS IL 1004 MILWAUKEE AVE

1004 SOUTH MILWAUKEE AVENUE
WHEELING, COOK COUNTY, ILLINOIS

SPECIAL USE PERMIT PLANS



VICINITY MAP
NOT TO SCALE

DEVELOPMENT TEAM

DEVELOPER
SOLAR LANDSCAPE LLC
601 BANGS AVENUE, SUITE 301
ASBURY PARK, NJ 07712
PHONE: (856) 437-9711
CONTACT: EMILY MCCUE

CIVIL ENGINEER
ATWELL, LLC
1250 EAST DIEHL ROAD, SUITE 300
NAPERVILLE, IL 60563
PHONE: (630) 577-0800
FAX: (630) 577-0900
CONTACT: MICHAEL KEITH, P.E.

SURVEYOR
SURVEY SYSTEMS OF AMERICA, INC.
783 SOUTH EIGHTH STREET
DUNDEE, IL 60118
PHONE: (847) 428-5775
CONTACT: JOHN ERNST

GOVERNING AGENCIES & UTILITY CONTACTS

MUNICIPALITY/PLANNER
DIRECTOR OF COMMUNITY DEVELOPMENT
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: ROSS KLICKER

CITY ENGINEER
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

ELECTRIC
COMED
PHONE: (800) 334-7661

SOIL EROSION
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

WATER & SEWER
UTILITY SUPERINTENDENT
77 WEST HINTZ ROAD
WHEELING, IL 60090
PHONE: (847) 279-6928
CONTACT: JEFF WOLFGRAM

GAS
NICOR GAS
PHONE: (888) 642-6748

LEGAL DESCRIPTION

PARCEL 1:
THAT PART OF LOT 4 IN HENRY GRANDT AND OTHERS' SUBDIVISION (HEREINAFTER DESCRIBED), LYING NORTH OF A LINE 380 FEET SOUTH OF THE NORTH LINE OF SECTION 13 (ALSO BEING THE CENTER LINE OF HINTZ ROAD), AND EAST OF A LINE 216 FEET WEST OF THE WEST LINE OF LOT 5 EXTENDED, (EXCEPT THAT PART LYING EAST OF THE WEST LINE OF LOT 5, IN HENRY GRANDT AND OTHERS' SUBDIVISION AFORESAID, EXTENDED SOUTH, ALSO EXCEPTING THEREFROM THE SOUTH 14 FEET OF THE NORTH 44 FEET THEREOF CONDEMNED BY THE COUNTY OF COOK IN CASE NUMBER 86L51436), SAID LOT 4 BEING IN HENRY GRANDT AND OTHERS' SUBDIVISION OF THAT PART OF THE SOUTH 1420.62 FEET OF SECTION 12, WEST OF THE CENTER OF MILWAUKEE AVENUE, AND A PART OF THE NORTH ½ OF SECTION 13, ALL IN TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID SUBDIVISION FILED IN THE REGISTRAR'S OFFICE OF COOK COUNTY, ILLINOIS, JANUARY 29, 1923 AS DOCUMENT 172867, IN COOK COUNTY ILLINOIS.

PARCEL 2:
THAT PART OF LOT 4 IN HENRY GRANDT AND OTHERS' SUBDIVISION (HEREINAFTER DESCRIBED), LYING NORTH OF A LINE 380 FEET SOUTH OF THE NORTH LINE OF SECTION 13 (ALSO BEING THE CENTER LINE OF HINTZ ROAD), AND EAST OF THE WEST LINE OF LOT 5 EXTENDED SOUTH, SAID LOT 4 BEING IN HENRY GRANDT AND OTHERS' SUBDIVISION OF THAT PART OF THE SOUTH 1420.62 FEET OF SECTION 12, WEST OF THE CENTER LINE OF MILWAUKEE AVENUE, AND A PART OF THE NORTH ½ OF SECTION 13, ALL IN TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID SUBDIVISION FILED IN THE REGISTRAR'S OFFICE OF COOK COUNTY, ILLINOIS, JANUARY 29, 1923 AS DOCUMENT 172867, (EXCEPT THEREFROM THAT PART DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 4, SAID CORNER BEING ON THE CENTERLINE OF MILWAUKEE AVENUE; THENCE SOUTHEASTERLY 134.33 FEET ALONG SAID CENTERLINE AND THE EAST LINE OF SAID LOT 4 ON AN ASSUMED BEARING OF SOUTH 24° 51' 09" EAST; THENCE CONTINUING SOUTHEASTERLY 169.92 FEET ALONG SAID CENTERLINE, BEING A TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 2,383.80 FEET, CENTRAL ANGLE 4° 05' 03" TO A LINE 380 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13; THENCE NORTH 89° 17' 12" WEST, 69.10 FEET ALONG SAID PARALLEL LINE; THENCE NORTH 12° 10' 54" WEST, 62.77 FEET; THENCE NORTH 23° 36' 24" WEST, 166.66 FEET; THENCE NORTH 28° 41' 08" WEST, 50.86 FEET TO THE NORTH LINE OF SAID LOT 4; THENCE NORTH 69° 41' 26" EAST, 54.57 FEET ALONG SAID NORTH LINE OF LOT 4 TO THE POINT OF BEGINNING, CONDEMNED BY THE COUNTY OF COOK IN CASE NUMBER 94 L 50951 AND RECORDED AS DOCUMENT R9000788), ALL IN COOK COUNTY, ILLINOIS.

PARCEL 3:
NON-EXCLUSIVE EASEMENT FOR THE BENEFIT OF PARCELS 1 AND 2 FOR STORM WATER DRAINAGE AS CREATED BY RECIPROCAL EASEMENT AGREEMENT MADE BY MILWAUKEE AMUSEMENT CORPORATION AND THE FIRST NATIONAL BANK OF LAKE FOREST, TRUST NO. 4287, RECORDED SEPTEMBER 3, 1974 AS DOCUMENT 22835025 AND FILED AS DOCUMENT LR2771582, AS AMENDED AND RESTATED RECIPROCAL EASEMENT AGREEMENT RECORDED JUNE 4, 1998 AS DOCUMENT 98466355.

SHEET INDEX

C01.0 COVER SHEET
C02.0 EXISTING CONDITIONS PLAN
C03.0 SITE LAYOUT PLAN
C04.0 STANDARD NOTES AND DETAILS

Know what's below. Call before you dig.
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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ATWELL
866.850.4200 www.atwell.com
1250 EAST DIEHL ROAD, SUITE 300
NAPERVILLE, IL 60563
630.577.0800
DESIGN FIRM #184005876-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
COVER SHEET

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05 REVISIONS PER CLIENT
2025/12/17 REVISIONS PER CLIENT & VILLAGE
2026/02/23 REVISIONS PER VILLAGE
2026/03/27 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO. C01.0

Michael B. Keith
MICHAEL B. KEITH
062-066723
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
03/27/2026
EXP. 11/30/2027

I:\2025\25000704\SITE\PLOTS\PLOTS\25000704-SLD-COVER SHEET 2026-03-27.DWG - COVER SHEET 2026/03/27 3:57 PM ALEX HANAK



LEGEND

- BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SETBACK LINE
- EXISTING BUILDING
- FEMA REGULATORY FLOODWAY

EXISTING CONDITIONS BASED ON ALTA/ACSM LAND TITLE SURVEY BY SURVEY SYSTEMS OF AMERICA, INC. 11/30/2004.

LEGAL DESCRIPTION:

PARCEL 1:
THAT PART OF LOT 4 IN HENRY GRANDT AND OTHERS' SUBDIVISION (HEREINAFTER DESCRIBED), LYING NORTH OF A LINE 380 FEET SOUTH OF THE NORTH LINE OF SECTION 13 (ALSO BEING THE CENTER LINE OF HINTZ ROAD), AND EAST OF A LINE 216 FEET WEST OF THE WEST LINE OF LOT 5 EXTENDED, (EXCEPT THAT PART LYING EAST OF THE WEST LINE OF LOT 5, IN HENRY GRANDT AND OTHERS' SUBDIVISION AFORESAID, EXTENDED SOUTH, ALSO EXCEPTING THEREFROM THE SOUTH 14 FEET OF THE NORTH 44 FEET THEREOF CONDEMNED BY THE COUNTY OF COOK IN CASE NUMBER 86L51436), SAID LOT 4 BEING IN HENRY GRANDT AND OTHERS' SUBDIVISION OF THAT PART OF THE SOUTH 1420.62 FEET OF SECTION 12, WEST OF THE CENTER OF MILWAUKEE AVENUE, AND A PART OF THE NORTH ½ OF SECTION 13, ALL IN TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID SUBDIVISION FILED IN THE REGISTRAR'S OFFICE OF COOK COUNTY, ILLINOIS, JANUARY 29, 1923 AS DOCUMENT 172867, IN COOK COUNTY ILLINOIS.

PARCEL 2:
THAT PART OF LOT 4 IN HENRY GRANDT AND OTHERS' SUBDIVISION (HEREINAFTER DESCRIBED), LYING NORTH OF A LINE 380 FEET SOUTH OF THE NORTH LINE OF SECTION 13 (ALSO BEING THE CENTER LINE OF HINTZ ROAD), AND EAST OF THE WEST LINE OF LOT 5 EXTENDED SOUTH, SAID LOT 4 BEING IN HENRY GRANDT AND OTHERS' SUBDIVISION OF THAT PART OF THE SOUTH 1420.62 FEET OF SECTION 12, WEST OF THE CENTER LINE OF MILWAUKEE AVENUE, AND A PART OF THE NORTH ½ OF SECTION 13, ALL IN TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID SUBDIVISION FILED IN THE REGISTRAR'S OFFICE OF COOK COUNTY, ILLINOIS, JANUARY 29, 1923 AS DOCUMENT 172867, (EXCEPT THEREFROM THAT PART DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 4, SAID CORNER BEING ON THE CENTERLINE OF MILWAUKEE AVENUE; THENCE SOUTHEASTERLY 134.33 FEET ALONG SAID CENTERLINE AND THE EAST LINE OF SAID LOT 4 ON AN ASSUMED BEARING OF SOUTH 24° 51'09"EAST; THENCE CONTINUING SOUTHEASTERLY 169.92 FEET ALONG SAID CENTERLINE, BEING A TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 2,383.80 FEET, CENTRAL ANGLE 4° 05'03"TO A LINE 380 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 13; THENCE NORTH 89° 17' 12"WEST, 69.10 FEET ALONG SAID PARALLEL LINE; THENCE NORTH 12° 10'54"WEST, 62.77 FEET; THENCE NORTH 23° 36' 24"WEST, 166.66 FEET; THENCE NORTH 28° 41'08"WEST, 50.86 FEET TO THE NORTH LINE OF SAID LOT 4; THENCE NORTH 89° 41'26"EAST, 54.57 FEET ALONG SAID NORTH LINE OF LOT 4 TO THE POINT OF BEGINNING, CONDEMNED BY THE COUNTY OF COOK IN CASE NUMBER 94 L 50951 AND RECORDED AS DOCUMENT R9000788), ALL IN COOK COUNTY, ILLINOIS.

PARCEL 3:
NON-EXCLUSIVE EASEMENT FOR THE BENEFIT OF PARCELS 1 AND 2 FOR STORM WATER DRAINAGE AS CREATED BY RECIPROCAL EASEMENT AGREEMENT MADE BY MILWAUKEE AMUSEMENT CORPORATION AND THE FIRST NATIONAL BANK OF LAKE FOREST, TRUST NO. 4287, RECORDED SEPTEMBER 3, 1974 AS DOCUMENT 22835025 AND FILED AS DOCUMENT LR2771582, AS AMENDED AND RESTATED RECIPROCAL EASEMENT AGREEMENT RECORDED JUNE 4, 1998 AS DOCUMENT 98466355.

SCALE IN FEET
0 30 60 90 150

811 Know what's **below.** **Call** before you dig.

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NOTICE:
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DESIGN FIRM #184005676-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
EXISTING CONDITIONS PLAN

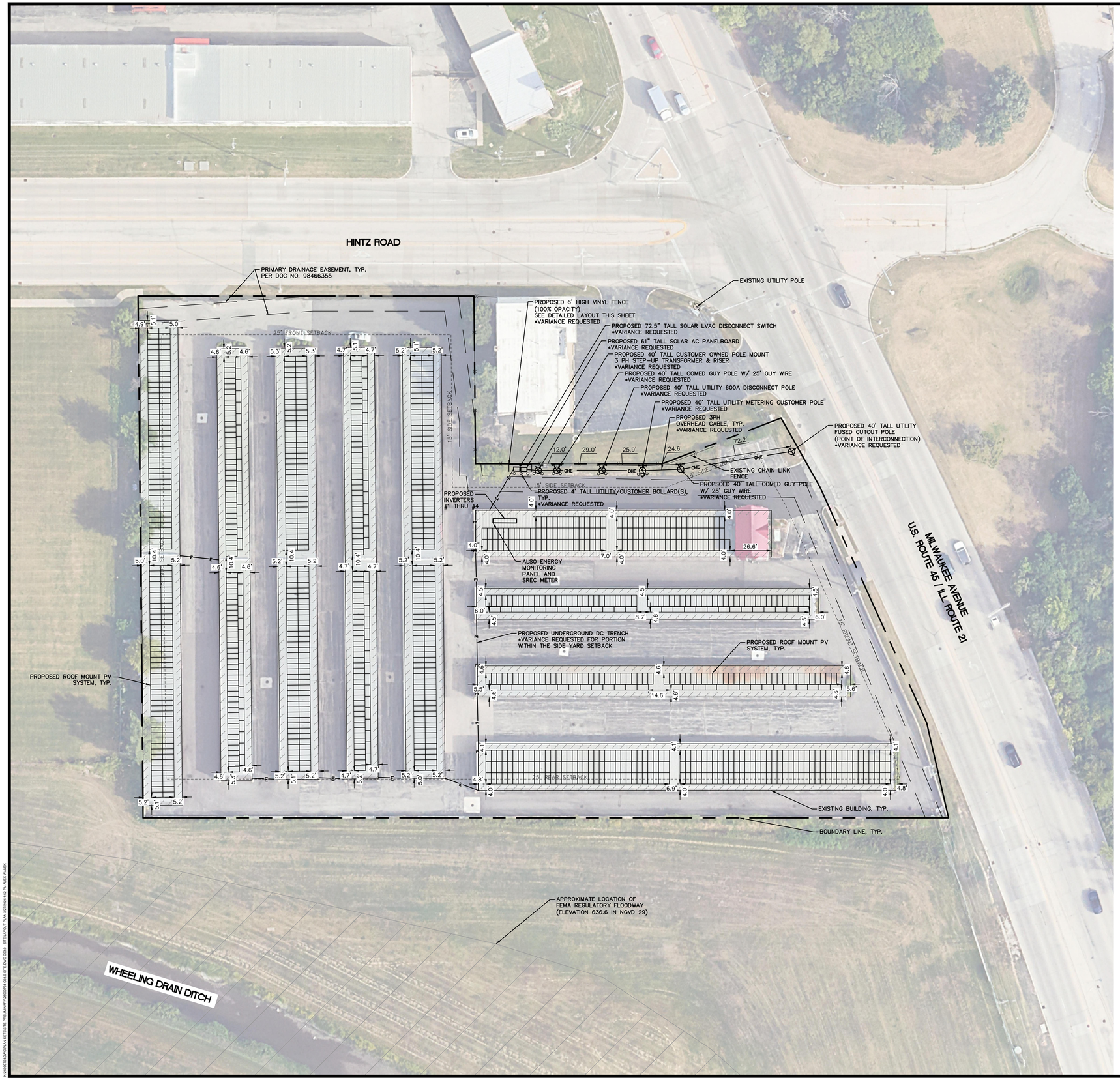
NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05 REVISIONS PER CLIENT
2025/12/17 REVISIONS PER CLIENT & VILLAGE
2026/02/23 REVISIONS PER VILLAGE
2026/03/27 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C02.0

I:\25000704\DWG\PLAN SET\EXISTING CONDITIONS PLAN.DWG 8/27/2026 4:31 PM ALEX WARD



LEGEND

- BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SETBACK LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- PROPOSED FENCE
- EXISTING BUILDING
- FEMA APPROXIMATE FLOODWAY

SITE DATA

PIN:	03-13-101-025
JURISDICTION:	VILLAGE OF WHEELING, IL
ZONING DISTRICT:	B-3 (GENERAL COMMERCIAL AND OFFICE DISTRICT)
CURRENT LAND USE:	STORAGE FACILITY
PARCEL AREA:	± 3.074 ACRES

FEMA FLOOD HAZARD: REGULATORY FLOODWAY AND ZONE AE PER FIRM MAP #17031C0207J DATED 8/19/2008.

GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
3. LIMITS OF WORK SHALL BE EROSION CONTROL BARRIERS AS INDICATED ON DRAWINGS.
4. ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.
5. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
6. EXISTING TREES AND SHRUBS SHALL NOT BE CLEARED, UNLESS OTHERWISE NOTED.
7. FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

ZONING DISTRICT:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS THAT MAY BE PROMULGATED BY THE COOK COUNTY PLANNING AND DEVELOPMENT DEPARTMENT, SOIL AND WATER CONSERVATION DISTRICT, AND MUNICIPAL AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, SECURING AND COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AS ADMINISTERED BY THE STATE ENVIRONMENTAL PROTECTION AGENCY.

LAYOUT AND MATERIALS NOTES:
1. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN SITE PLAN DIMENSIONS AND BUILDING PLANS BEFORE PROCEEDING WITH ANY PORTION OF SITE WORK WHICH MAY BE AFFECTED SO THAT PROPER ADJUSTMENTS TO THE SITE LAYOUT CAN BE MADE IF NECESSARY.
4. PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

ZONING REQUIREMENTS

ZONING DISTRICT: B-3

REQUIRED SETBACKS FOR GROUND EQUIPMENT:

YARD	REQUIRED	PROPOSED
FRONT / STREETS:	25 FT.	SEE NOTE BELOW. •
SIDE:	15 FT.	SEE NOTE BELOW. •
REAR:	N/A	N/A

•ALL PROPOSED GROUND MOUNTED EQUIPMENT AND PROPOSED STRUCTURES ARE LOCATED WITHIN THE SETBACK(S). VARIANCE IS REQUESTED FOR THE FOLLOWING:

- POINT OF INTERCONNECTION POLE IS WITHIN THE FRONT YARD SETBACK AND 4.7 FT. FROM THE RIGHT-OF-WAY.
- 6' HIGH VINYL FENCE IS WITHIN THE SIDE YARD SETBACK AND IS 0.5 FT. FROM THE PROPERTY LINE.
- SOLAR LVAC DISCONNECT SWITCH IS WITHIN THE SIDE YARD SETBACK AND IS 2.0 FT. FROM THE PROPERTY LINE.
- SOLAR AC PANELBOARD IS WITHIN THE SIDE YARD SETBACK AND IS 2.3 FT. FROM THE PROPERTY LINE.
- CUSTOMER OWNED POLE MOUNT 3 PH STEP-UP TRANSFORMER & RISER IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- WEST COMED GUY POLE W/ 25' GUY WIRE IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- UTILITY 600A DISCONNECT POLE IS WITHIN THE SIDE YARD SETBACK AND IS 4.2 FT. FROM THE PROPERTY LINE.
- UTILITY METERING CUSTOMER POLE IS WITHIN THE SIDE YARD SETBACK AND IS 4.4 FT. FROM THE PROPERTY LINE.
- UTILITY/CUSTOMER BOLLARDS ARE WITHIN THE SIDE YARD SETBACK AND ARE 6.3 FT. FROM THE PROPERTY LINE (DISTANCE FROM PROPERTY LINE TO NEAREST BOLLARD).
- EAST COMED GUY POLE W/ 25' GUY WIRE IS WITHIN THE SIDE YARD SETBACK AND IS 6.1 FT. FROM THE PROPERTY LINE.
- UNDERGROUND DC TRENCH IS PARTIALLY WITHIN THE SIDE YARD SETBACK AND IS 3.4 FT. FROM THE PROPERTY LINE (DISTANCE FROM PROPERTY LINE TO NEAREST PORTION OF UNDERGROUND DC TRENCH).
- 3PH OVERHEAD CABLE IS PARTIALLY WITHIN THE FRONT AND SIDE YARD SETBACKS. THE PORTION OF THE 3PH OVERHEAD CABLE THAT COMES CLOSEST TO THE PROPERTY LINE (SIDE YARD) SITS AT 4.2 FT., AND FOR THE RIGHT-OF-WAY (FRONT YARD), 4.7 FT.

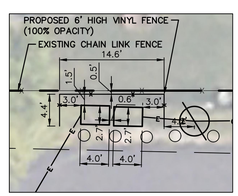
APPROXIMATE LOCATION FOR FEMA REGULATORY FLOODWAY SHOWN ON PLANS. THE REMAINDER OF THE SITE IS IN ZONE AE.

FLOODPLAIN NOTES

1.) FLOODPLAIN ELEVATION ON PROPERTY NEAREST TO THE IMPROVEMENTS IS 636.6 IN NVGD 29 (640.2 NAVD 88).

2.) ANY ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE THE BASE FLOOD ELEVATION (636.6) OR FLOOD PROOFED.

3.) AS-BUILT DRAWINGS WILL BE REQUIRED TO FINALIZE THE FLOODPLAIN PERMIT. THE AS-BUILT DRAWINGS SHOULD INCLUDE LOCATION OF UNDERGROUND CONDUIT AND ELEVATION OF ELECTRICAL EQUIPMENT IN RELATION TO THE BASE FLOOD ELEVATION.



DETAILED VINYL FENCE LAYOUT
SCALE 1"=10'

SCALE IN FEET
0 30 60 90 150

811 Know what's below. Call before you dig.

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SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
SITE LAYOUT PLAN

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
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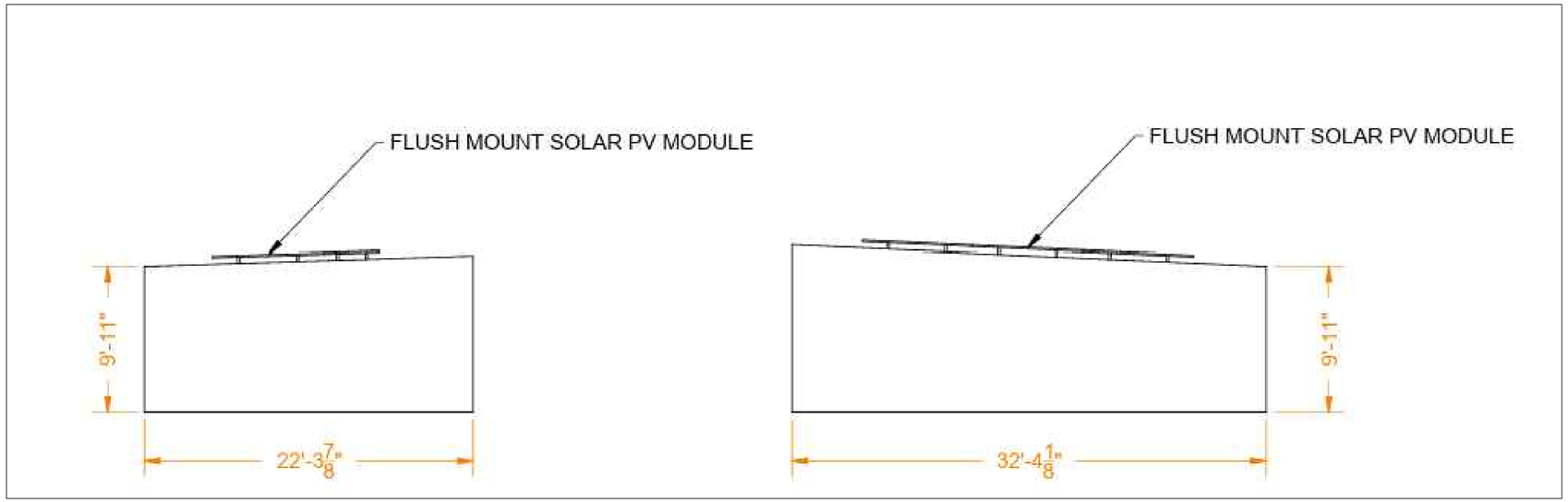
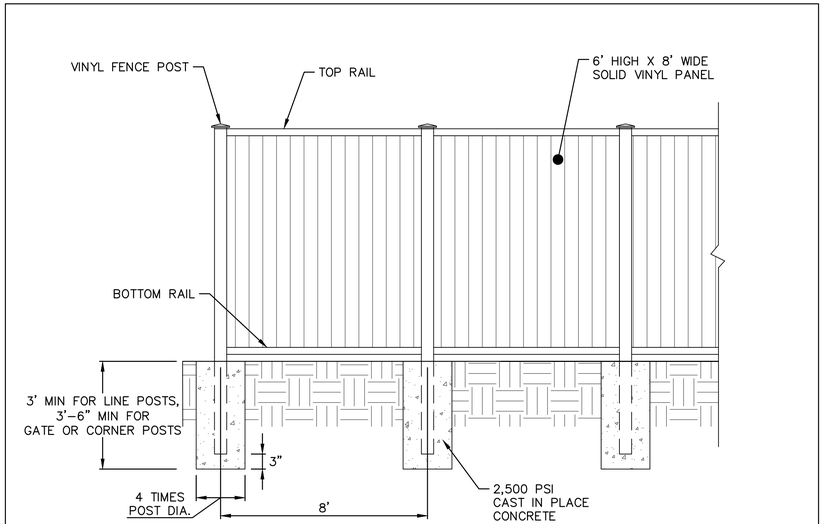
DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C03.0

G:\25000704\DWG\PLANSET\PRELIMINARY\25000704-SLD-SITE LAYOUT PLAN 20250805 - SITE LAYOUT PLAN.DWG, 8/5/2025 1:03 PM, ALEX.WARK



TYPICAL BUILDING SECTION

NOT TO SCALE



SOLID VINYL FENCE DETAIL

NOT TO SCALE

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WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1004 MILWAUKEE AVE
1004 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
STANDARD NOTES AND DETAILS

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
2026/02/23
REVISIONS PER VILLAGE
2026/03/27
REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000704
SHEET NO.
C04.0

PANEL MARKS: **7000 S CICERO AV, BE**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	600A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	22 KAIC SC FULLY RATED
MATERIAL:	ALUMINUM BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR.	Bottom
TYPE:	Breaker
AMPS/SENSOR:	600A/-
CATALOG NO.:	XT5NU360BBYNDB0XXX
POLES:	3
LUGS:	Horiz. XT5 (2) 2/0-500 mcm, No Feed Through Lugs
ACCESSORIES:	2 Aux 250V AC/DC
ACCESSORIES:	Bell Alarm
ACCESSORIES:	110-240V AC / 110-250V DC ShuntTrip
ACCESSORIES:	TMA

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
16	16

OPTIONS INCLUDED

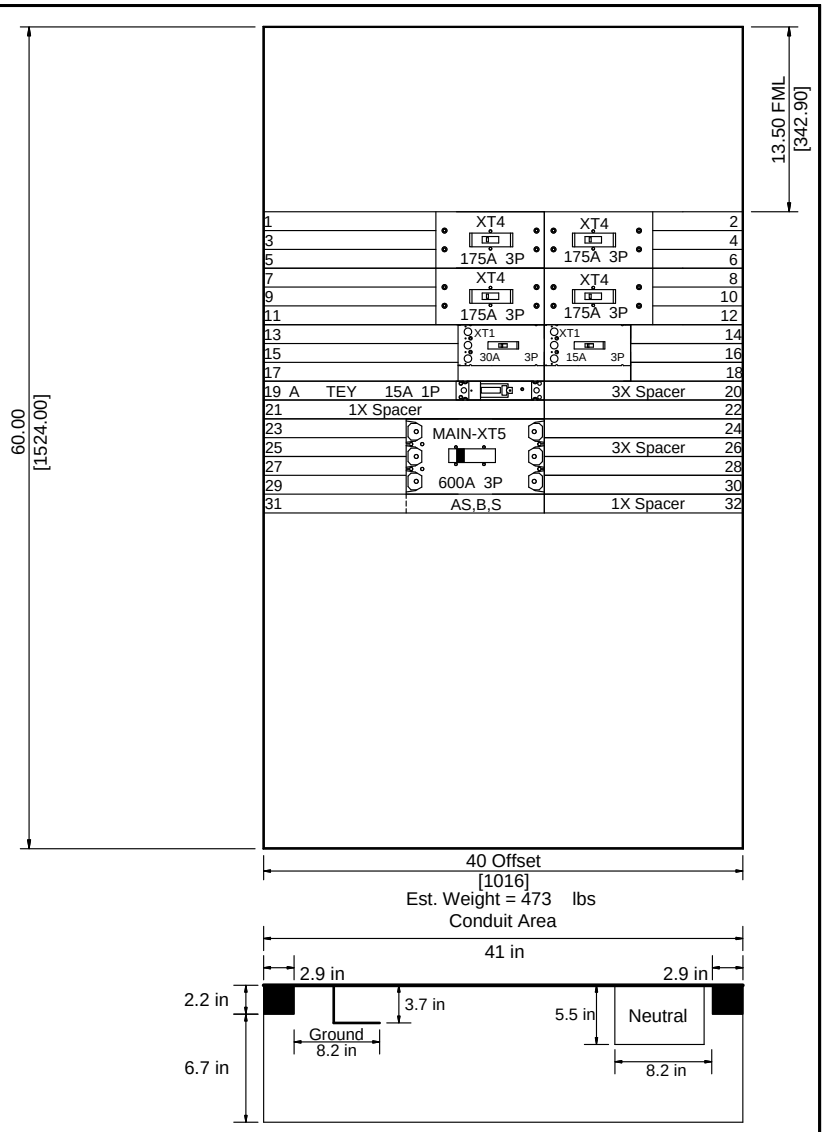
QTY	DESCRIPTION
1	Nameplates
1	Aluminum Bus Heat Rated
1	Grnd-Box bonded

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER6040R	Enclosure
1	GC40F16NNA	Gutter Covers
1	FT40S00135	Front 1 of 2
1	FT40S00205	Front 2 of 2

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG10AL	Ground
1	IN1606NN3H1	Interior Bus Stack
1	NL12I0NSTNDAL	Neutral
0	MAINXHX55	Main Code - Not a Catalog Number
1	75C141109P109	Nameplates
1	IF1640F	Interior Frame
1	IL40F	Lifting Kits
1	SR01BB	1X Blank only
1	SR01BF	1X Filler & Blank
2	SR03BB	3X Blank only
1	SR1XBF	1 XT1 Mtg Kit, Wide
1	SR1XBR	1 XT1 Mtg Kit, Narrow
1	SR01BF	Acc Filler



PANEL INFORMATION	
INTERNAL DIMENSIONS	60"X42"X11"
NOTES	
EXTERNAL DIMENSIONS	61"X43.5"X16.7"

1. FML - FRAME MOUNTING LOCATION.
2. DRAWING NOT TO SCALE.
3. DIMENSIONS ARE IN INCHES[mm].

NEUTRAL CAN BE MOUNTED IN ANY CORNER

FACTORY AUTO-LAYOUT. THE LAYOUT IS NOT SPECIFIED, THE FACTORY MAY CHANGE THE LOCATION OF SOME OF THE BREAKERS. NEUTRAL ARE PRESSURE LUGS.

PROJECT NAME : 15x Wave 3 IL MCB Panelboards		PANEL ID: neXT Panel Assembled Interior	PRODUCT NAME: *ReliaGear neXT PANELBOARD*	DRAWING NO:
CUSTOMER: WESCO DISTRIBUTION INC. HAUPPAUGE		CREATED BY: Schultz, William		ITEM NO: 1
		DATE: 05/28/2024 19:50:47		MARKS: 7000 S CICERO AV, BE
		REVISION NO.		QUOTE NO: UAV-00035419
				SHEET: 1

6/9/2024 3:18:59 PM SAP ORDER:

neXT Device Information

X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
Main	XT5NU360BBYNDB0XXX	600	-	TMA	3	A,B,C	(2) 2/0 AWG - 500 MCM	1,2,3
1	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
2	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
7	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
8	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
13	XT1NU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1NU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYADEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

1 Device is furnished with 2 Aux 250V AC/DC
2 Device is furnished with Shunt trip 110-240V AC/110-250V DC
3 Device is furnished with Bell alarm

PANEL MARKS: **7000 S CICERO AV, BE**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	600A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	22 KAIC SC FULLY RATED
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PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

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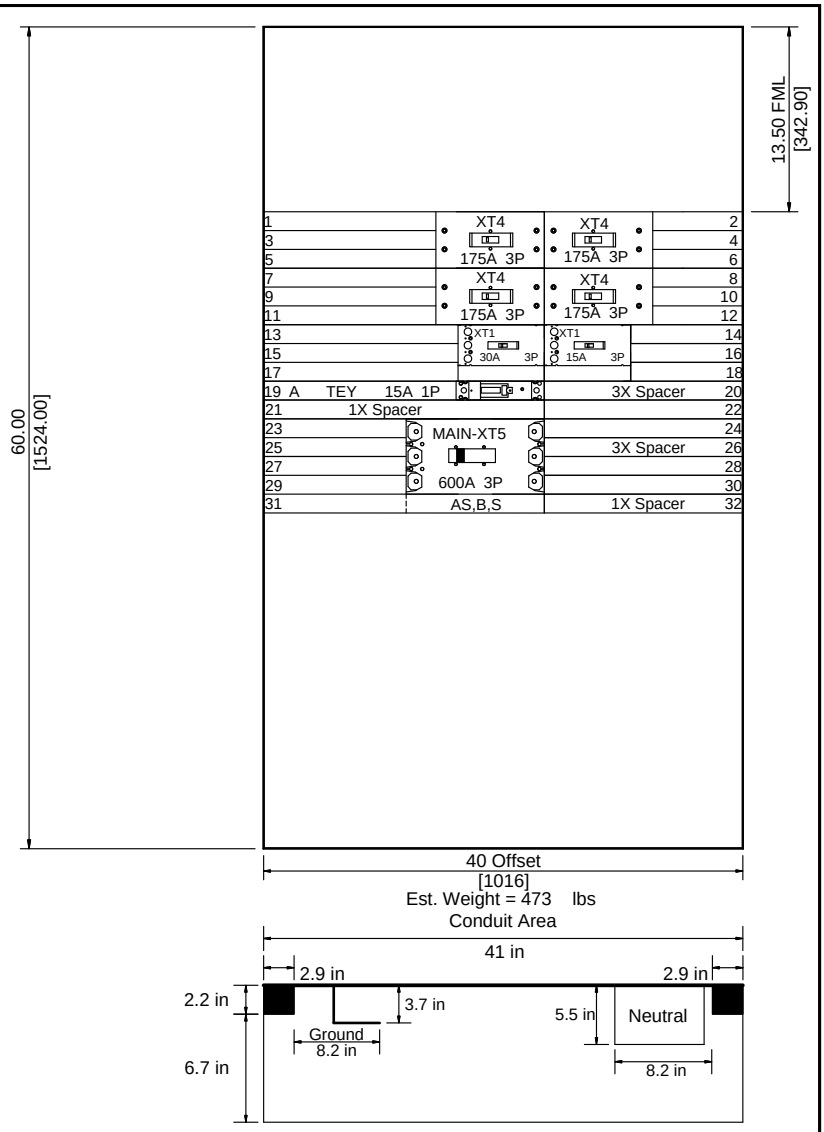
1	SR1XBF	1 XT1 Mtg Kit, Wide
1	SR1XBR	1 XT1 Mtg Kit, Narrow
1	SR01BF	Acc Filler



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		DATE: 05/28/2024 19:50:47		MARKS: 7000 S CICERO AV, BE
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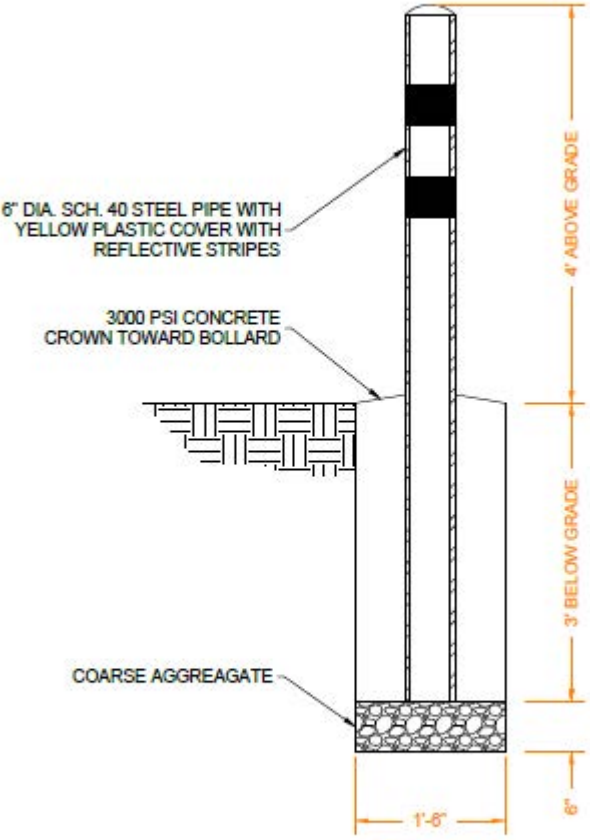
X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
Main	XT5NU360BBYNDB0XXX	600	-	TMA	3	A,B,C	(2) 2/0 AWG - 500 MCM	1,2,3
1	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
2	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
7	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
8	XT4NU3175AYJ000XXX	175	-	TMF	3	ABC	(1) 4 AWG-300 MCM	
13	XT1NU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1NU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYADEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

1 Device is furnished with 2 Aux 250V AC/DC
2 Device is furnished with Shunt trip 110-240V AC/110-250V DC
3 Device is furnished with Bell alarm



2 / E12 BOLLARD DETAILS
SCALE: 1:12

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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C9105
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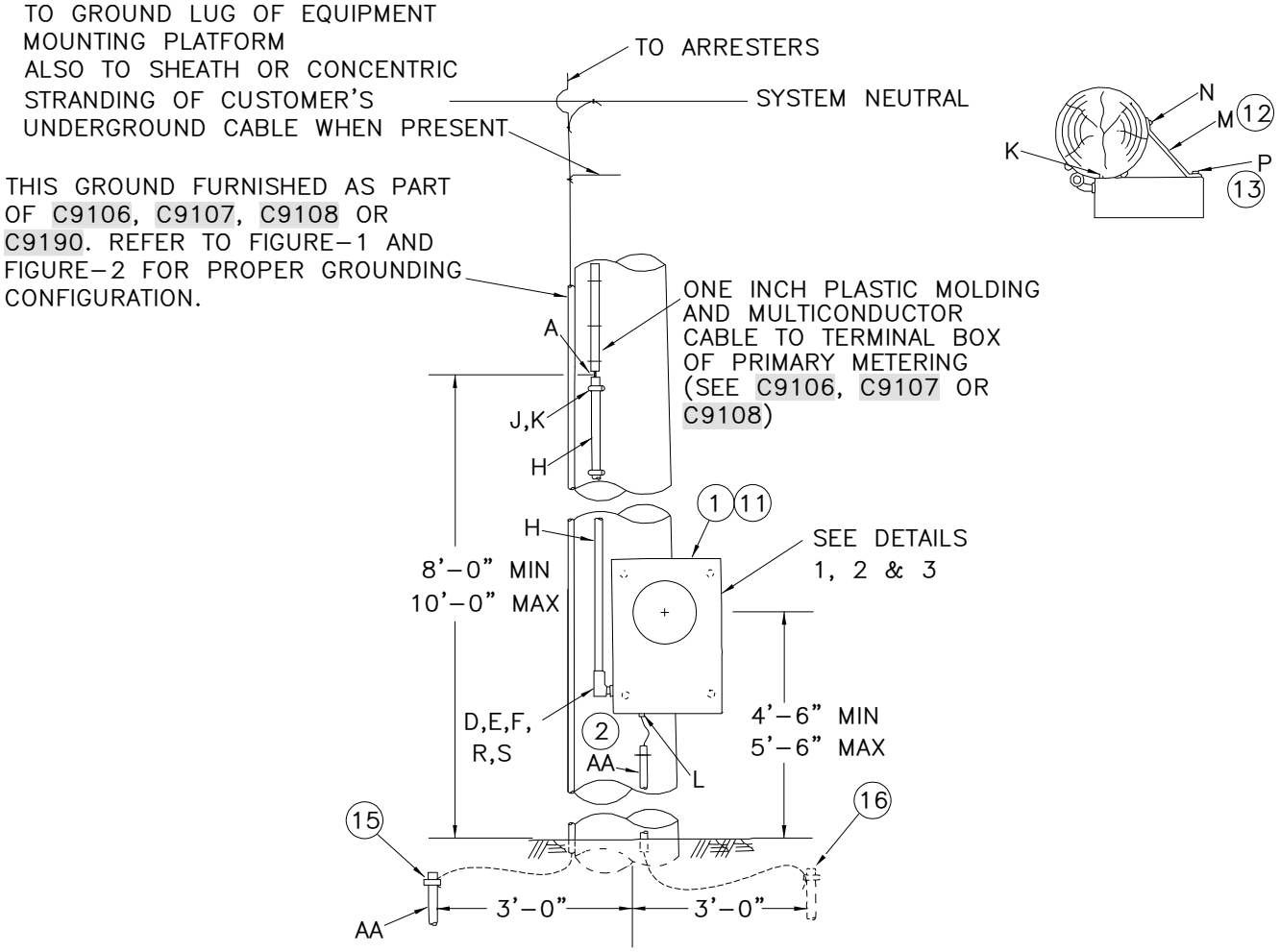
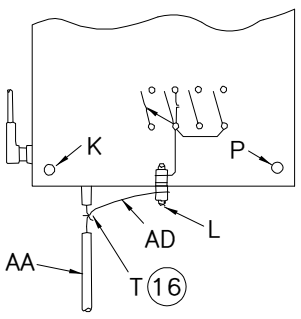
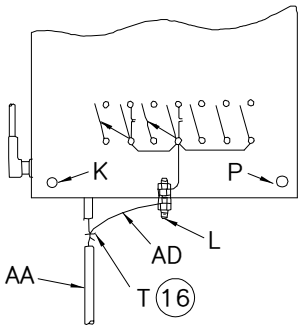


C9105.1_

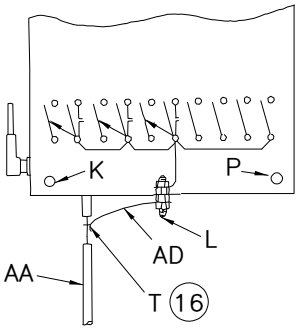
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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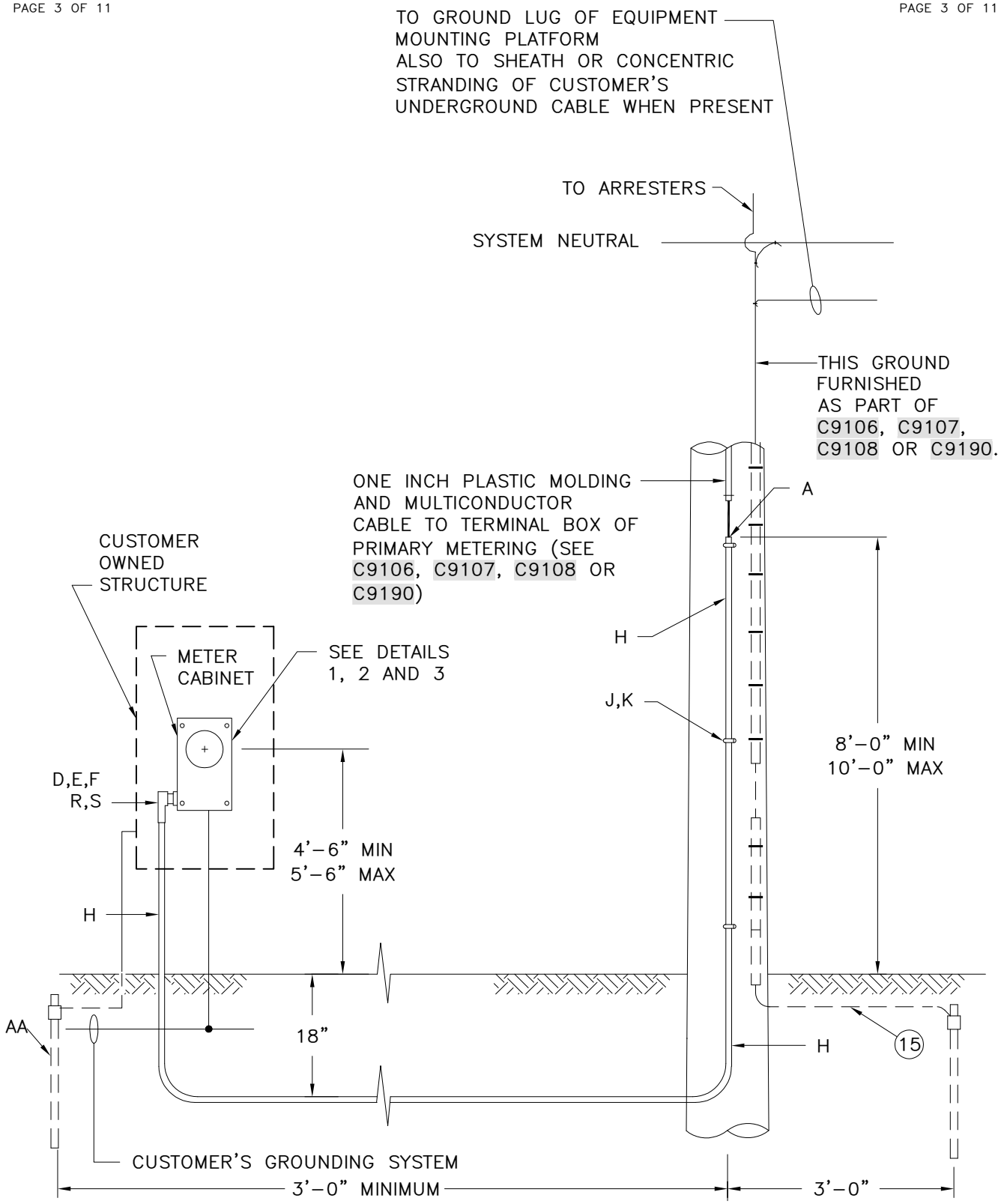

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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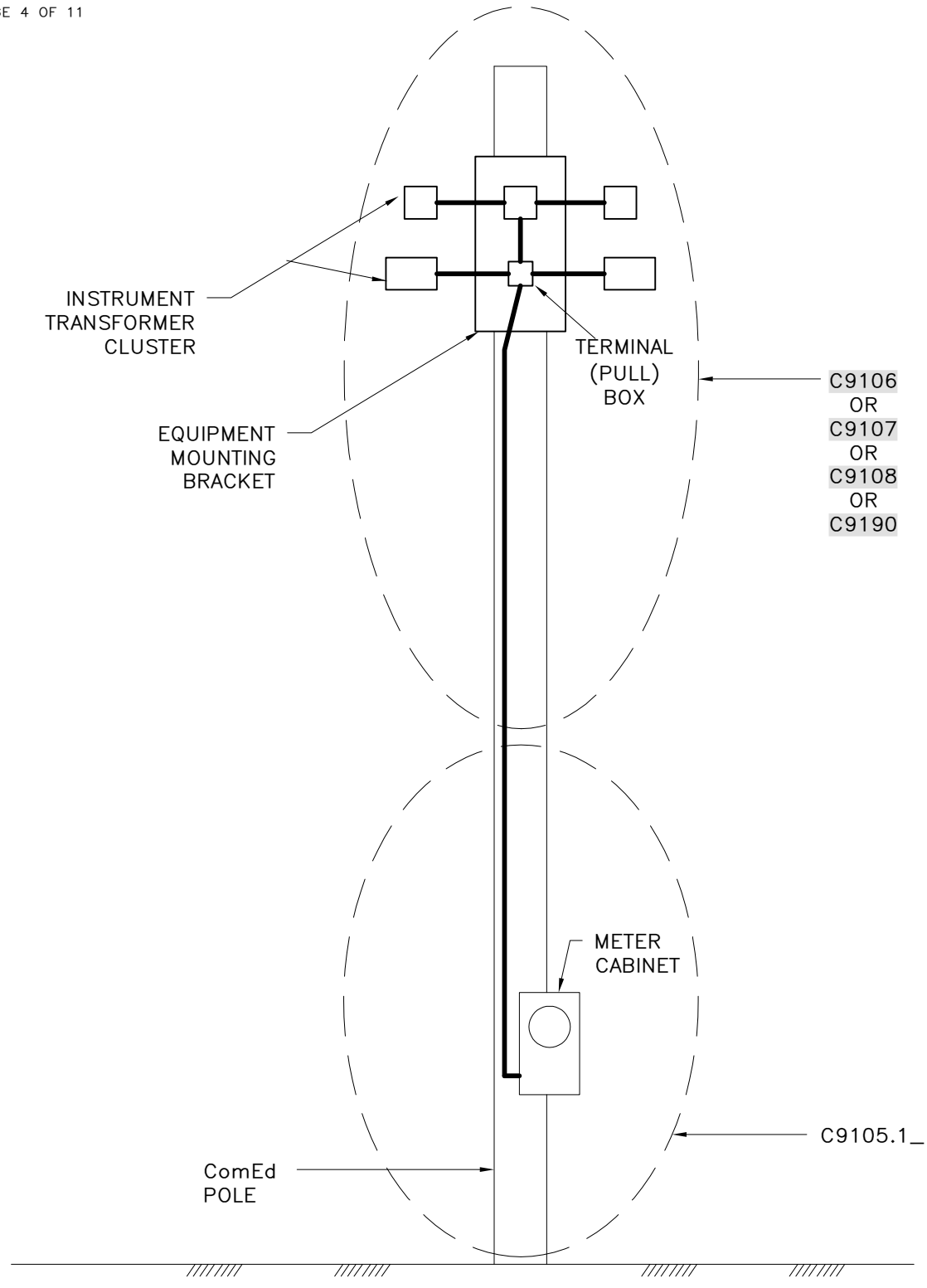

DETAIL-4

METER ON PRIMARY METERING POLE

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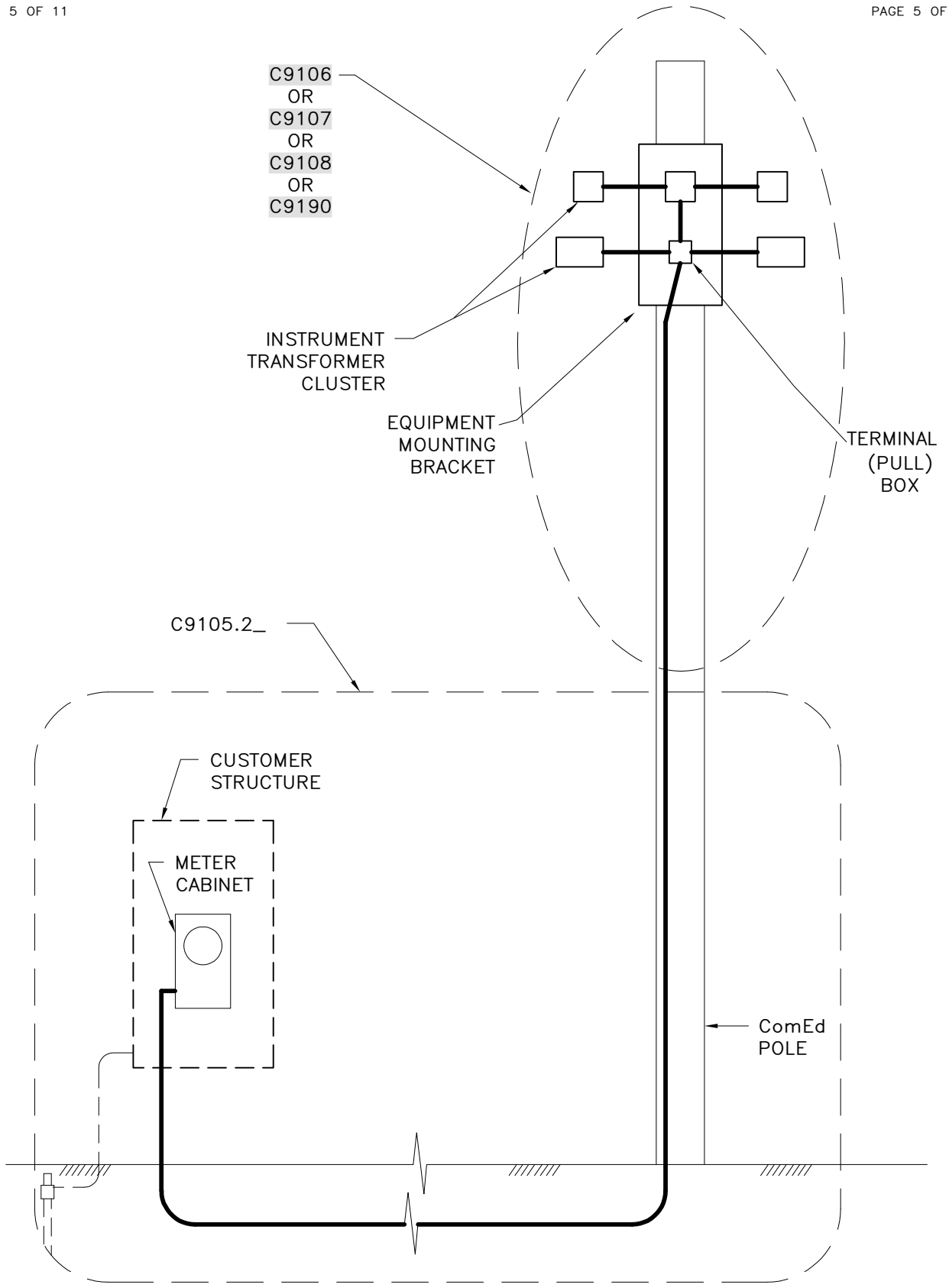

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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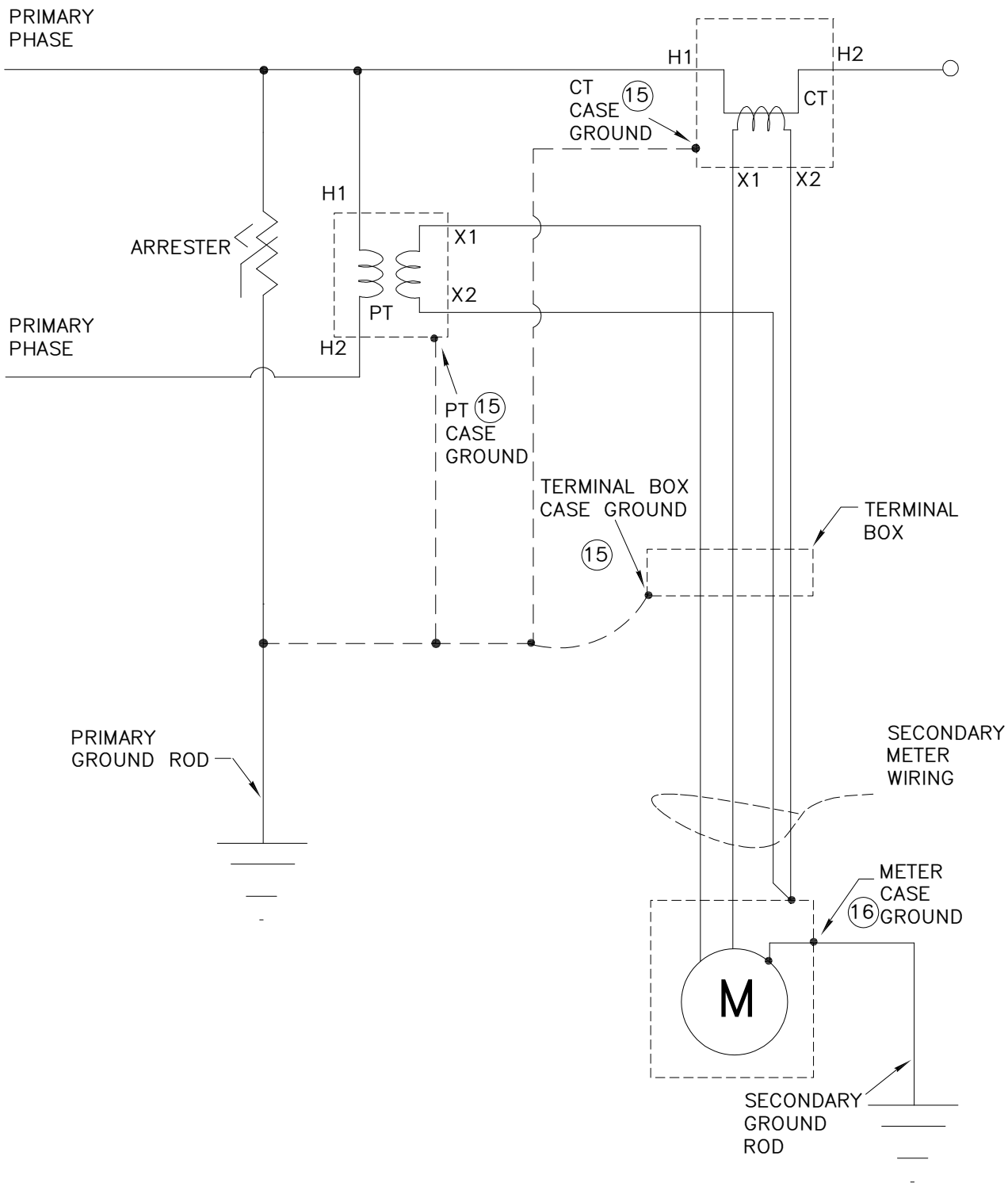

FIGURE-1

3-WIRE GROUNDING

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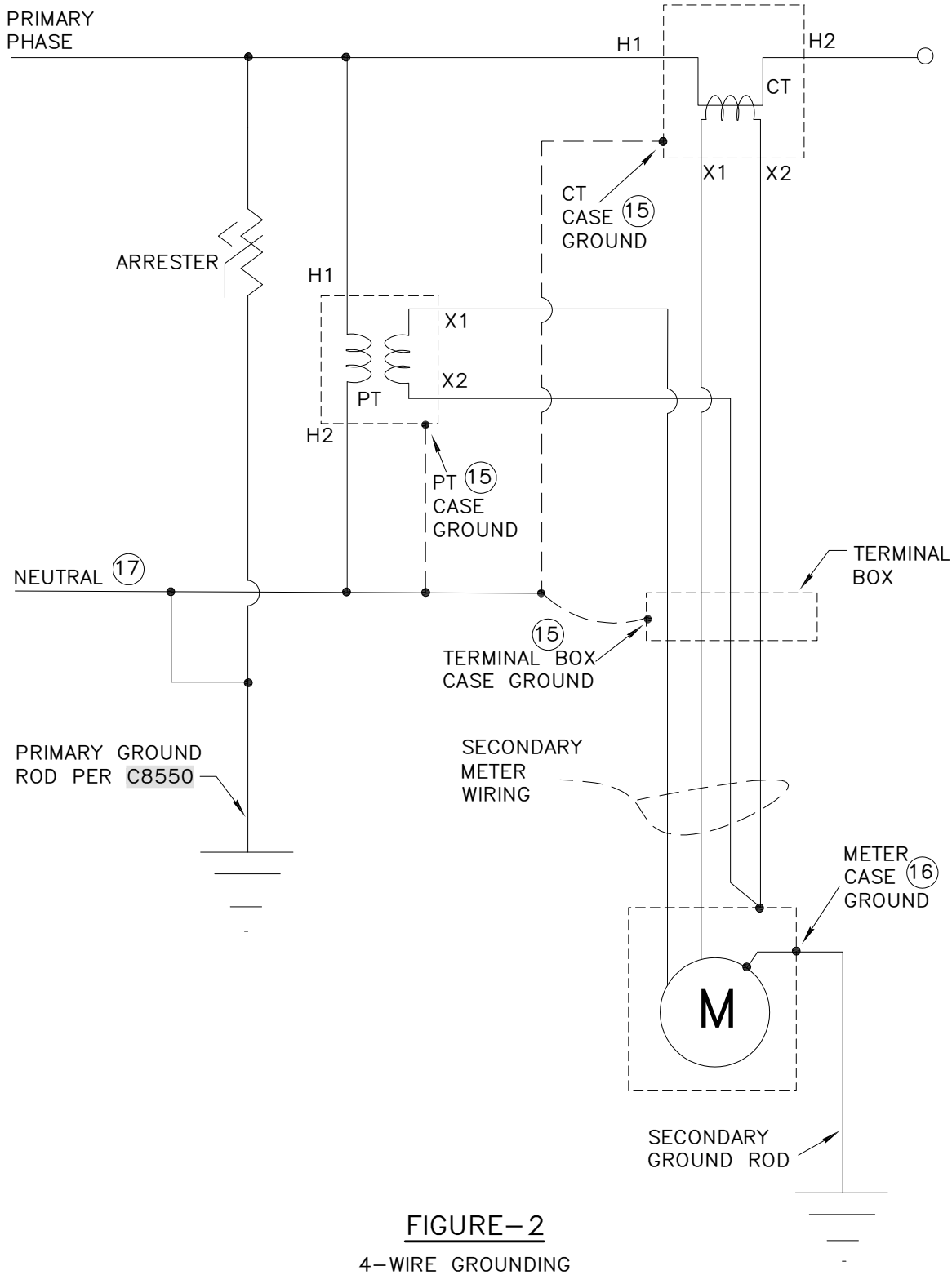

FIGURE-2

4-WIRE GROUNDING

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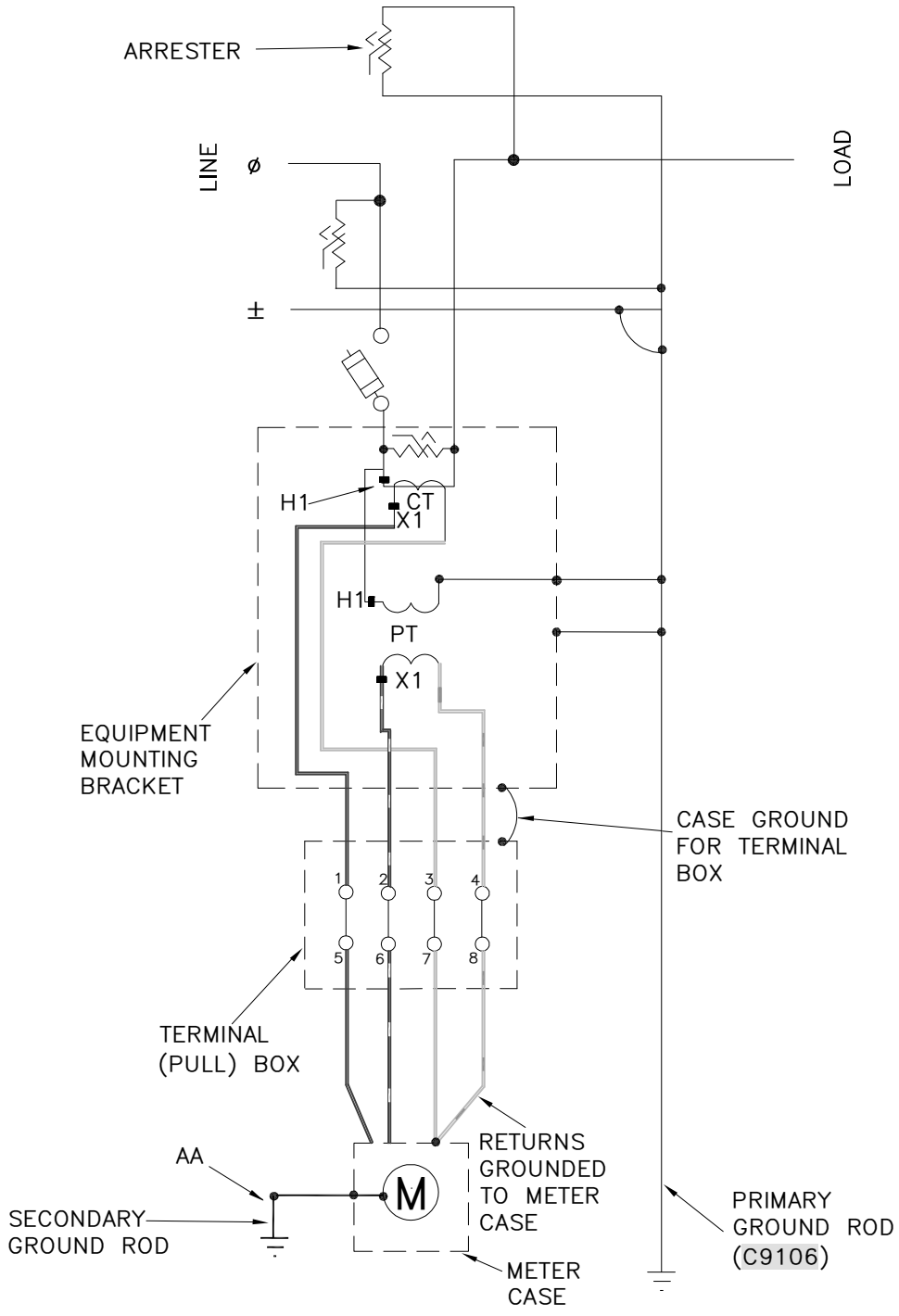

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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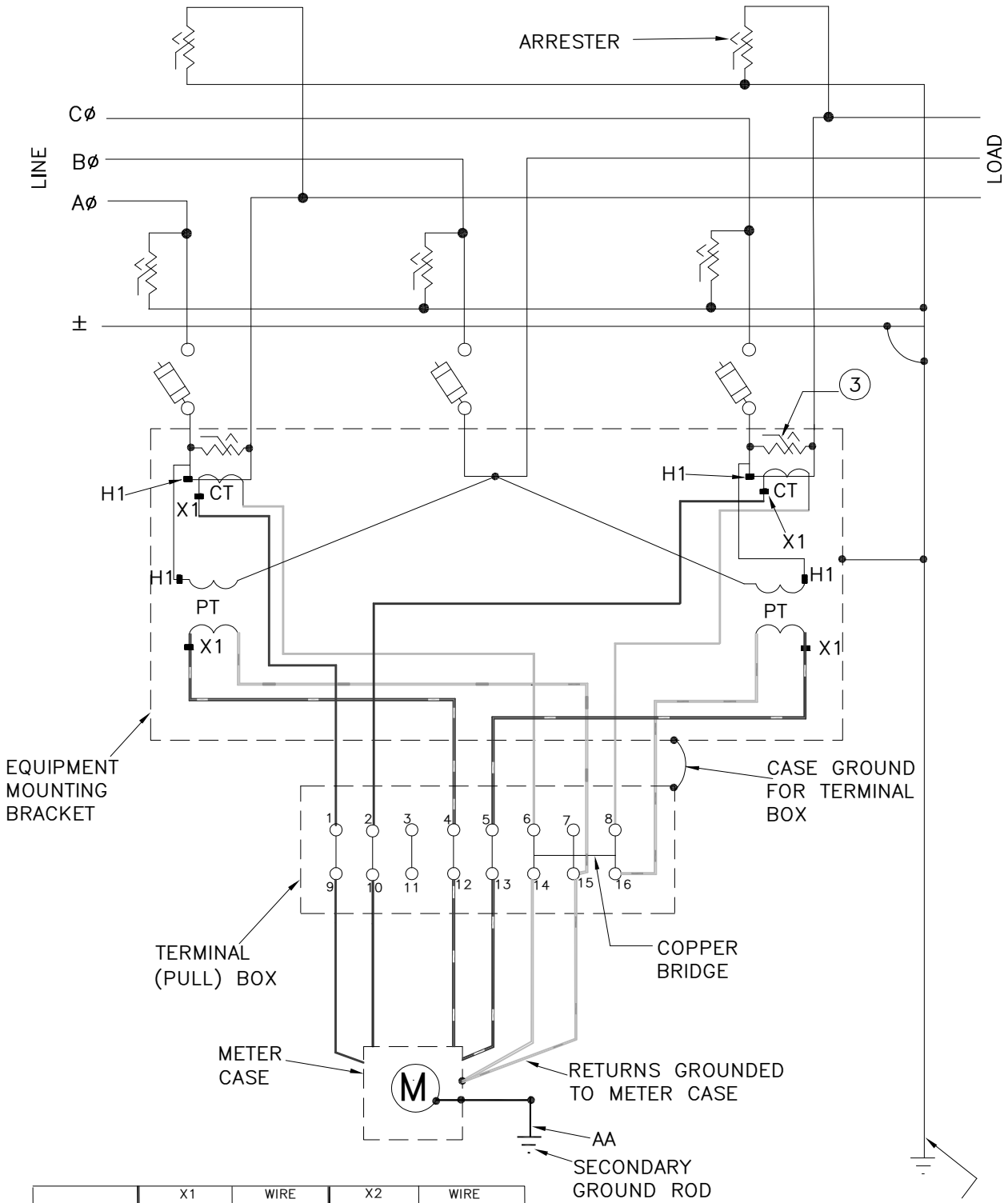

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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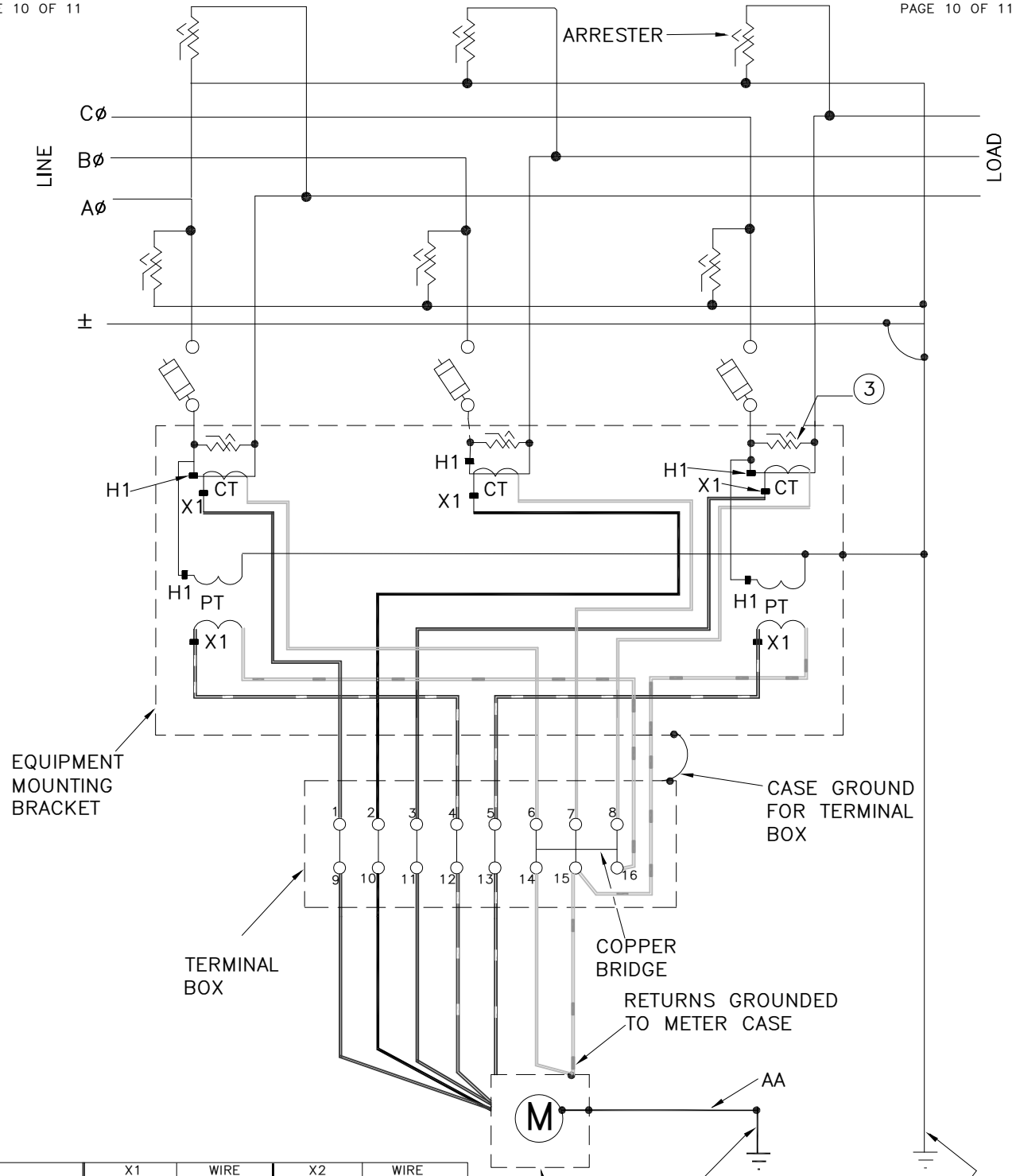

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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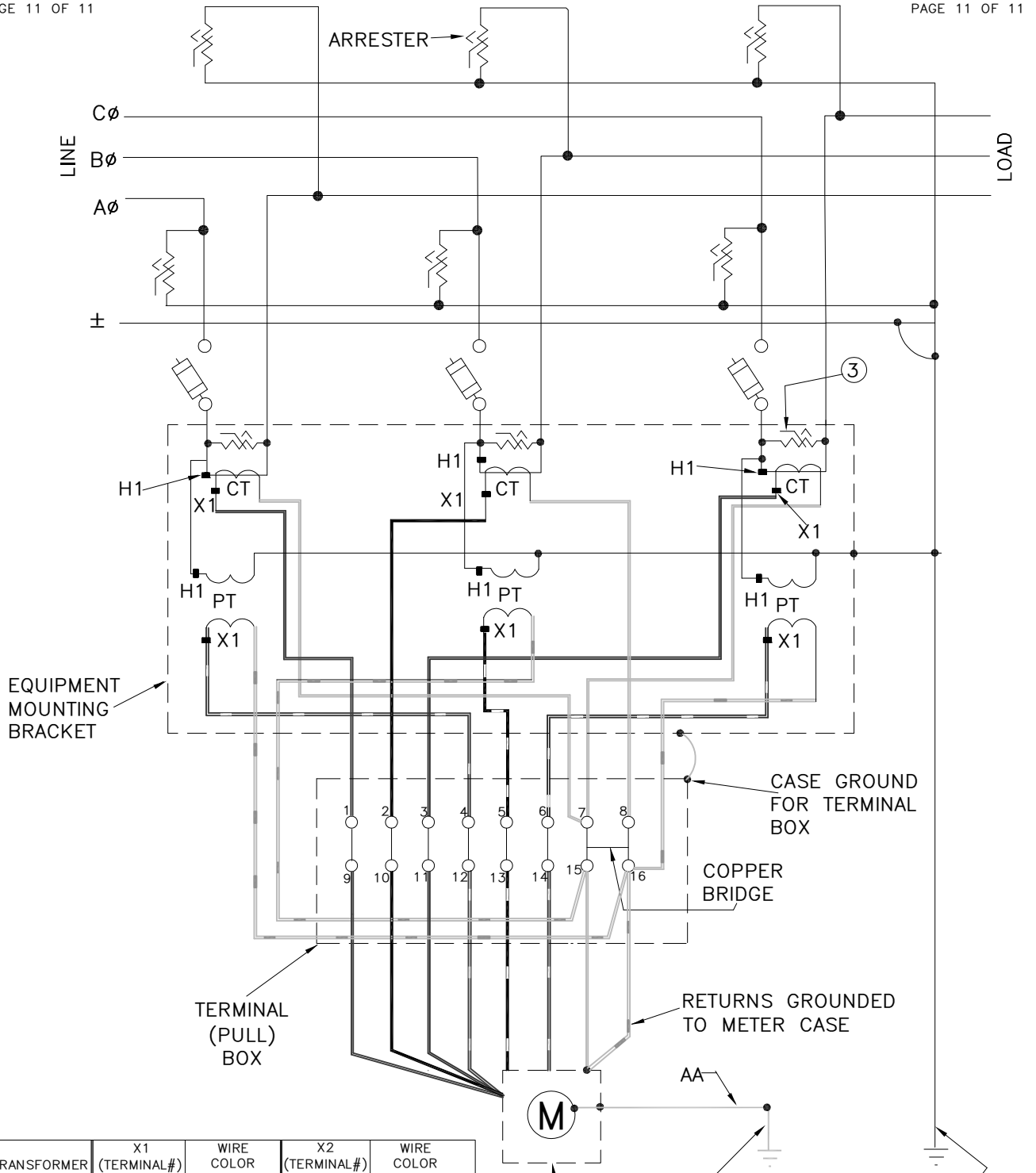

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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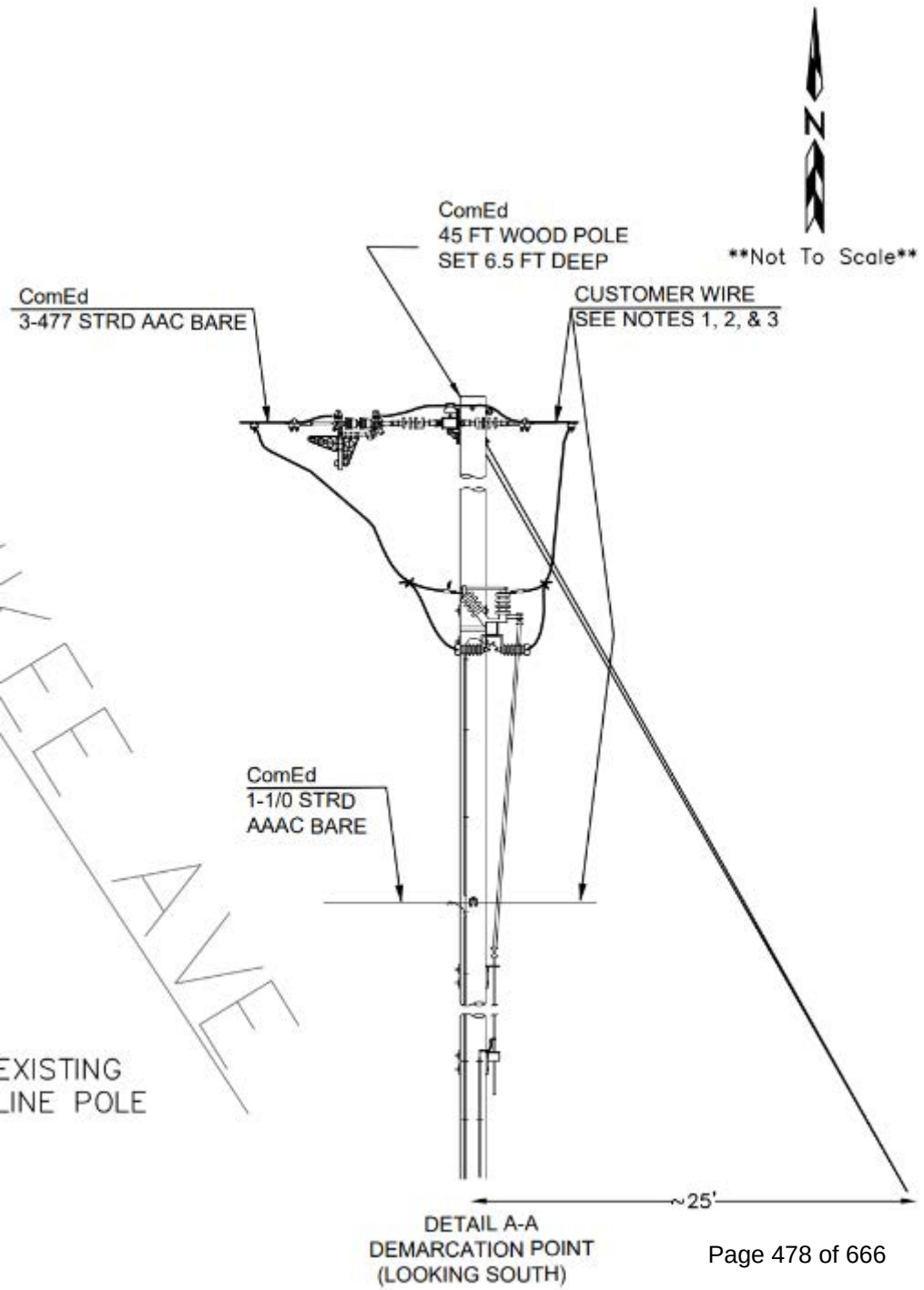

DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



Heavy Duty Safety Switch

DH367NRK

UPC:782113639277

Dimensions:

- **Height:** 12.38 IN
- **Length:** 57.5 IN
- **Width:** 27.5 IN

Weight:210 LB

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** Single-Throw
- **Amperage Rating:** 800A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class L fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Three-pole
- **Number Of Wires:** Four-wire
- **Product Category:** Heavy Duty, Fusible with neutral
- **Voltage Rating:** 600V
- **Max Hp Rating:** 500 at 480 Vac TD 3 Ph, 500 at 600 Vac TD 3 Ph

Supporting documents:

- Eatons Volume 2-Commercial Distribution
- Eaton Specification Sheet - DH367NRK

Certifications:

- UL Listed

Product compliance: No Data

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Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

INVERTER



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	**SE80KUS**	**SE50KUS**	**SE100KUS**	**SE110KUS**	**SE120KUS**	**UNITS**
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					°F / °C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

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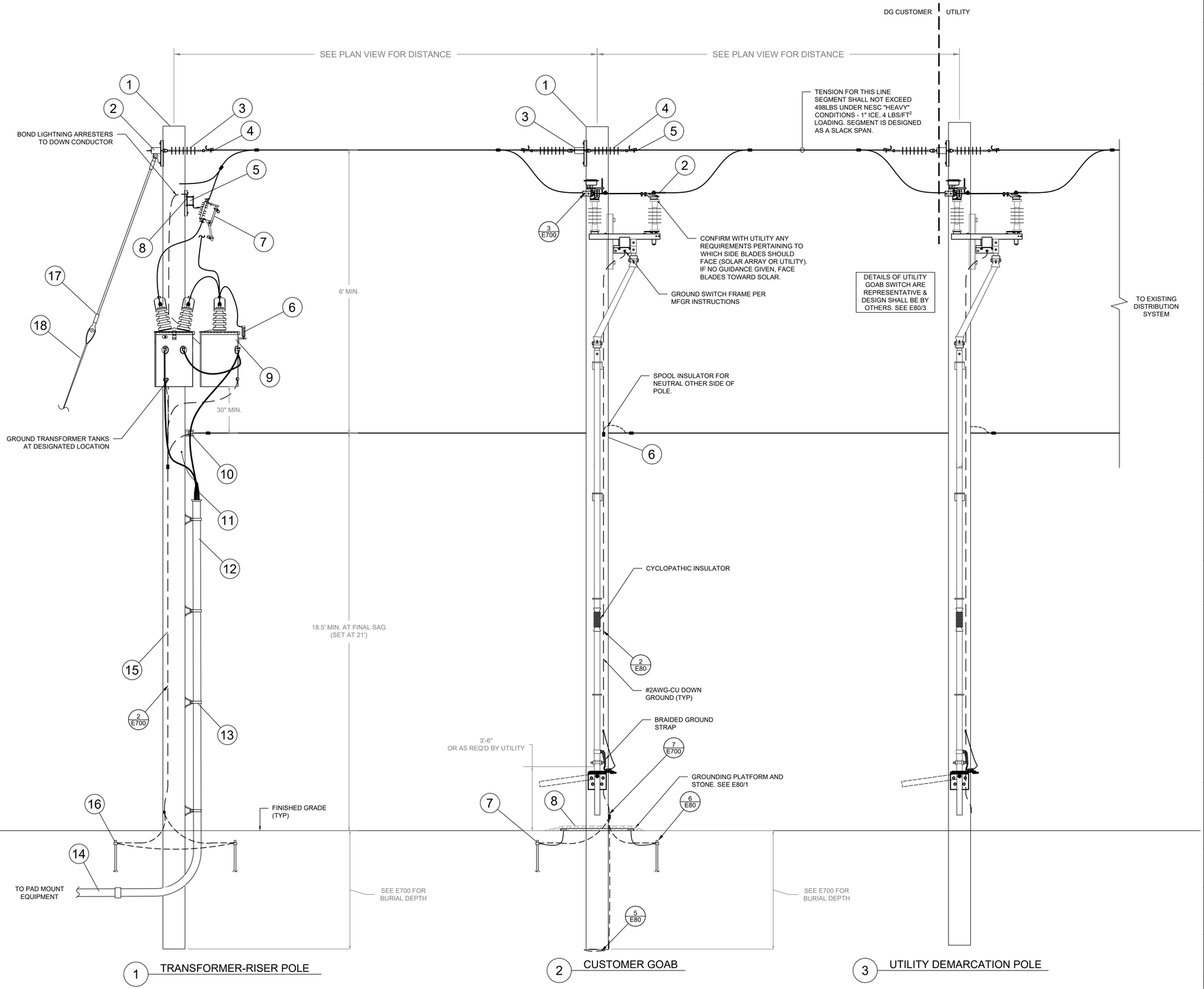
RISER POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	Dead End Cross Arm	8' Fiberglass
3	3	Dead End Insulator	15kV Polymer
4	3	Strain Clamps	Coordinate with Supply Conductors; See table
5	2	Tangent Cross Arm	8' Fiberglass
6	3	Surge Arrester w/ Wildlife Covers	Riser Class. See line diagram for MCOV rating.
7	3	Polymer Fused Cutout with mounting hardware	100A body, see line diagram for ampere rating and speed.
8	3	Cutout Bracket	Cutout bracket for crossarm
9	3	Liquid Filled Pole Mount Transformers	KVA varies by site. Provide wildlife protectors if not furnished with transformer.
10	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
11	1	Cable Grip	Basket style cable grip--attach to pole with lag bolt to support conductors
12	20'	Schedule 80 PVC Conduit	Note: parallel conductors must be separated unless specifically allowed.
13	As needed	Conduit standoff supports	Coordinate with riser conduit size and quantity.
14	As needed	Schedule 40 PVC Conduit	After 90° fitting - to pad mounted equipment.
15	As needed	#2AWG-CU Solid	Ground/Down Conductor
16	2	Ground Rod	5/8" x 10' Coppperweld
17	1	Fiberglass guy strain	10' or as needed to extend past exposed live parts
18	As needed	Guy Wire	3/8" EHS Galvanized with preform grips
19	1	Guy Wire Guard	Yellow, 8' minimum
20	1	Guy Anchor	As required for loading and soil conditions. 10" dia. Helix, 1-1/4" x 96" rod min.
	As needed	Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required

GOAB POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	GOAB Switch	15kV, 600A, Horizontal Configuration, Ground Operator - Torsional, 1.5" OD Pipe Control
3	1	Dead End Cross Arm	8' Fiberglass
4	6	Dead End Insulator	15kV Polymer
5	6	Strain Clamps	Coordinate with Supply Conductors
6	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
7	2	Ground Rod	5/8" x 10' Coppperweld
8	1	Galvanized Steel Grate & #2 Stone	See detail Sheet E700
	As needed	ACSR Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	6	Compression Fittings for GOAB	2-hole NEMA. Coordinate with Supply Conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	#2AWG-CU Solid	Ground/Down Conductor
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required
	1	Padlock for LOTO	If required by utility/owner
	Lot	Labels	"PHOTOVOLTATIC (SOLAR) AC DISCONNECT", Site Plan Label, others as required by utility.



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NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
OF ILLINOIS
Exp. 11/30/25

TYPICAL MV ELEVATIONS ILLINOIS PORTFOLIO

DRAWN BY
JS

CHECKED BY

DATE
23-Sep-2024

DRAWING LEVEL
ISSUED FOR CONSTRUCTION

REV.	DATE	DRAWING LEVEL
A		
B		
C		
D		
E		

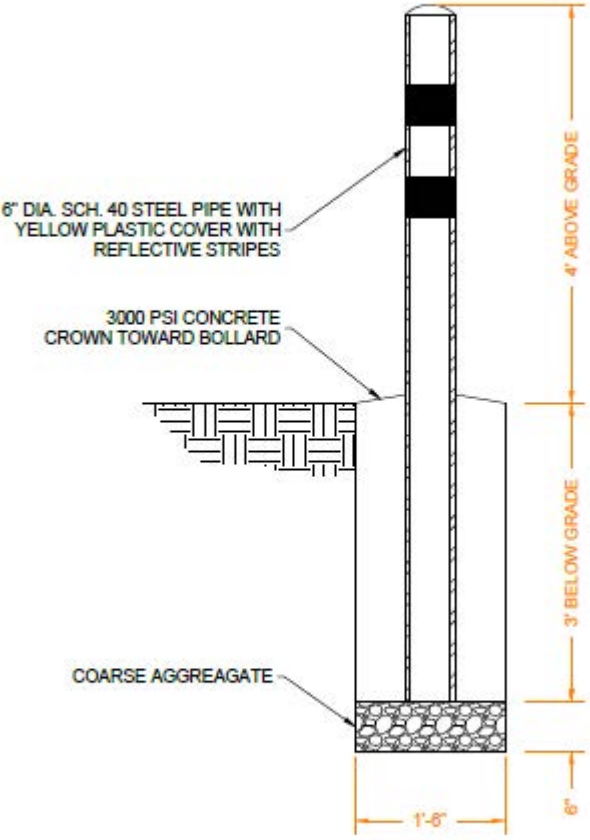
SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
NTS

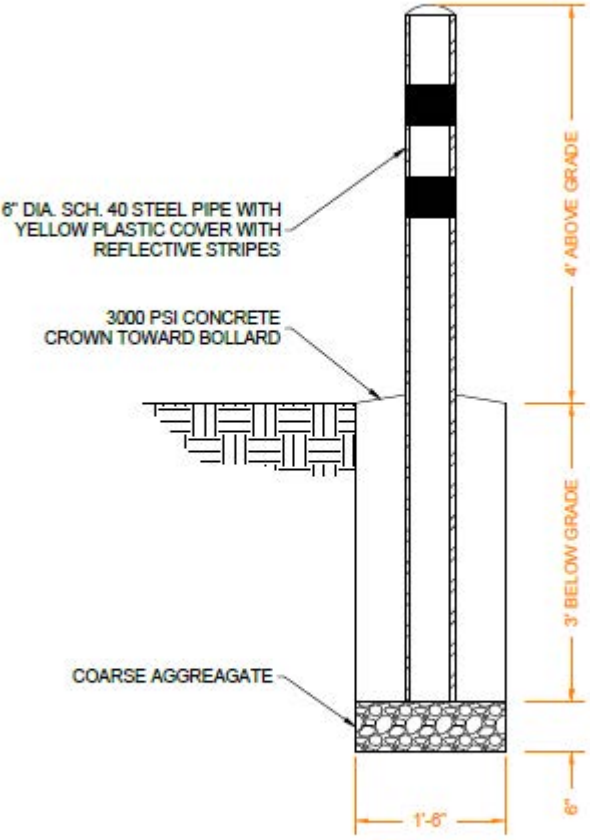
SHEET TITLE

E81

MEDIUM VOLTAGE ELEVATIONS



2 / E12 BOLLARD DETAILS
SCALE: 1:12



2 / E12 BOLLARD DETAILS
SCALE: 1:12

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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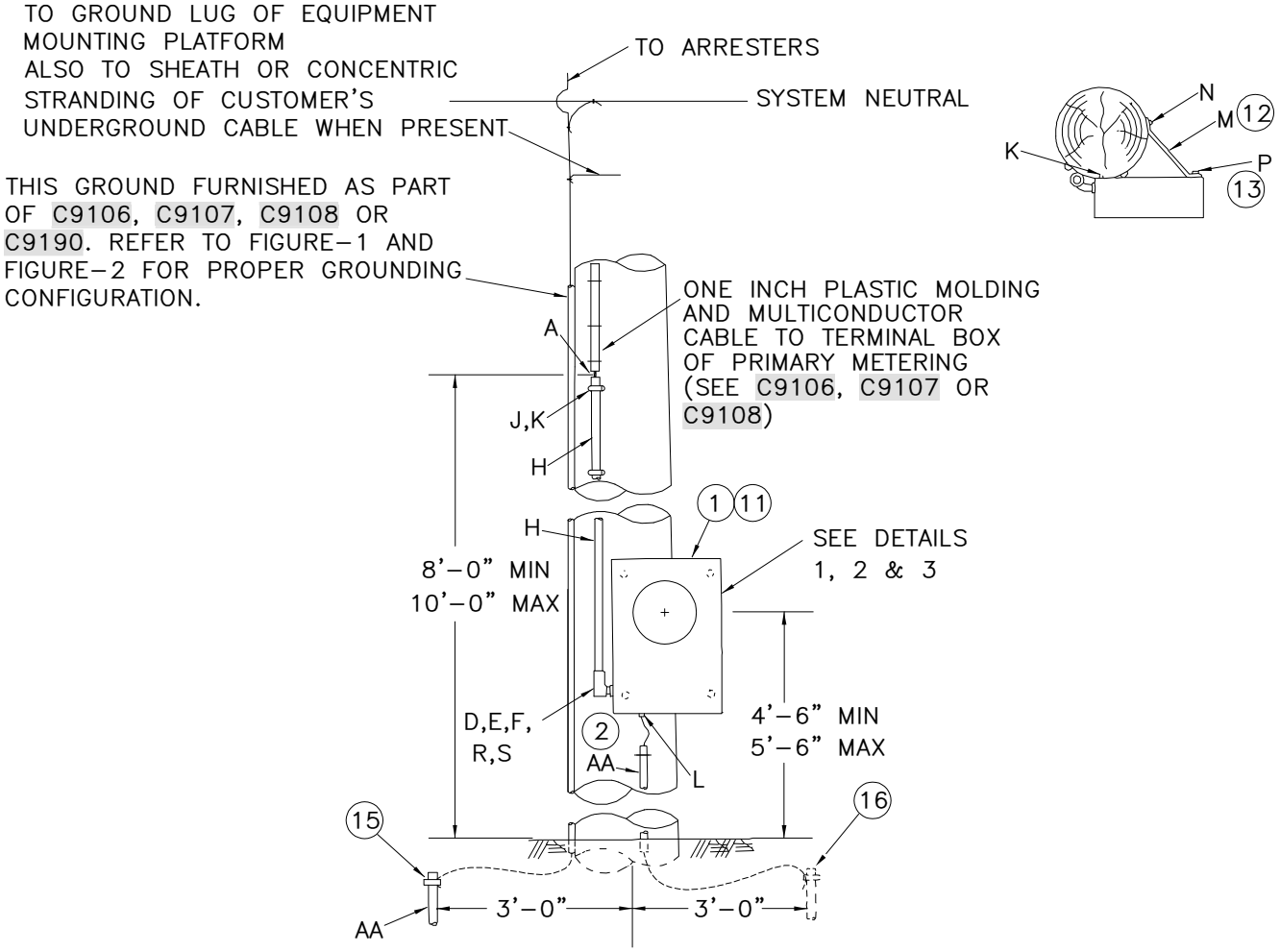
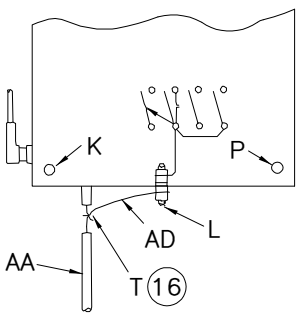
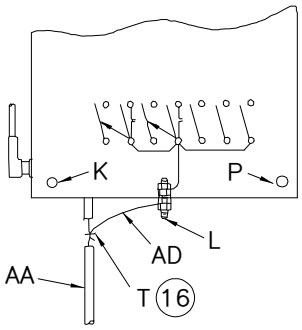


C9105.1_

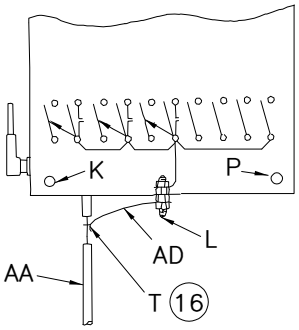
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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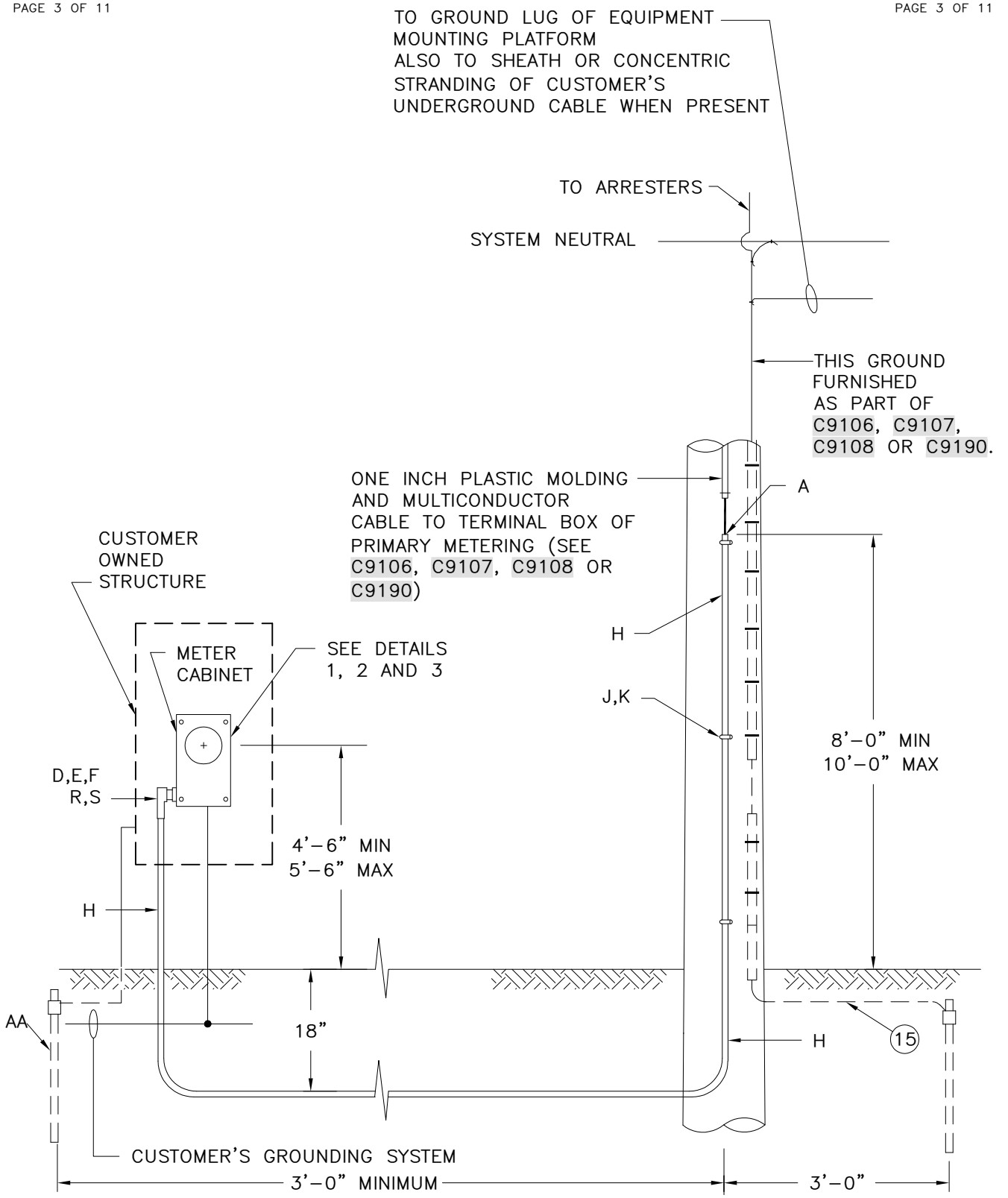

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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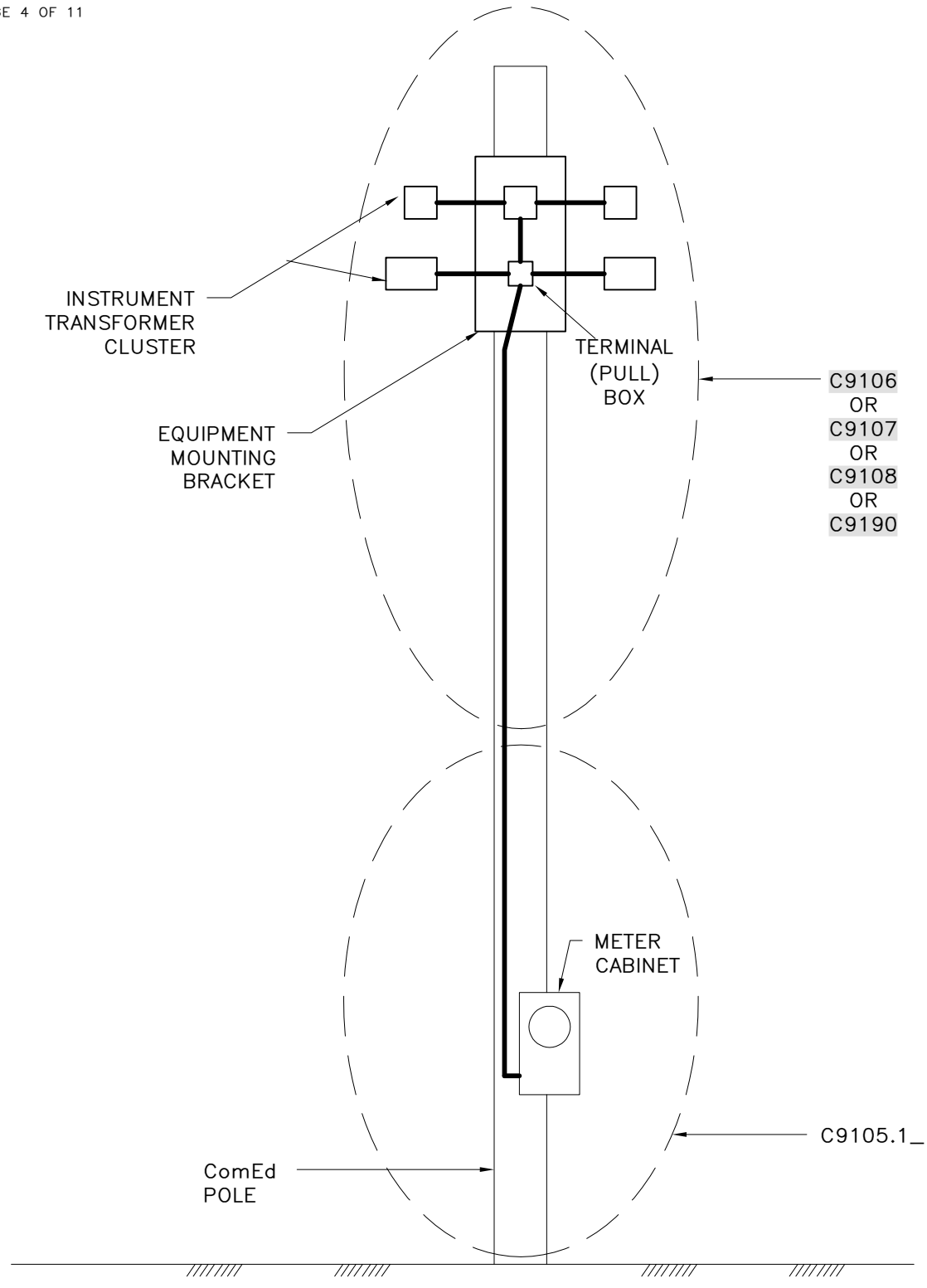

DETAIL-4

METER ON PRIMARY METERING POLE

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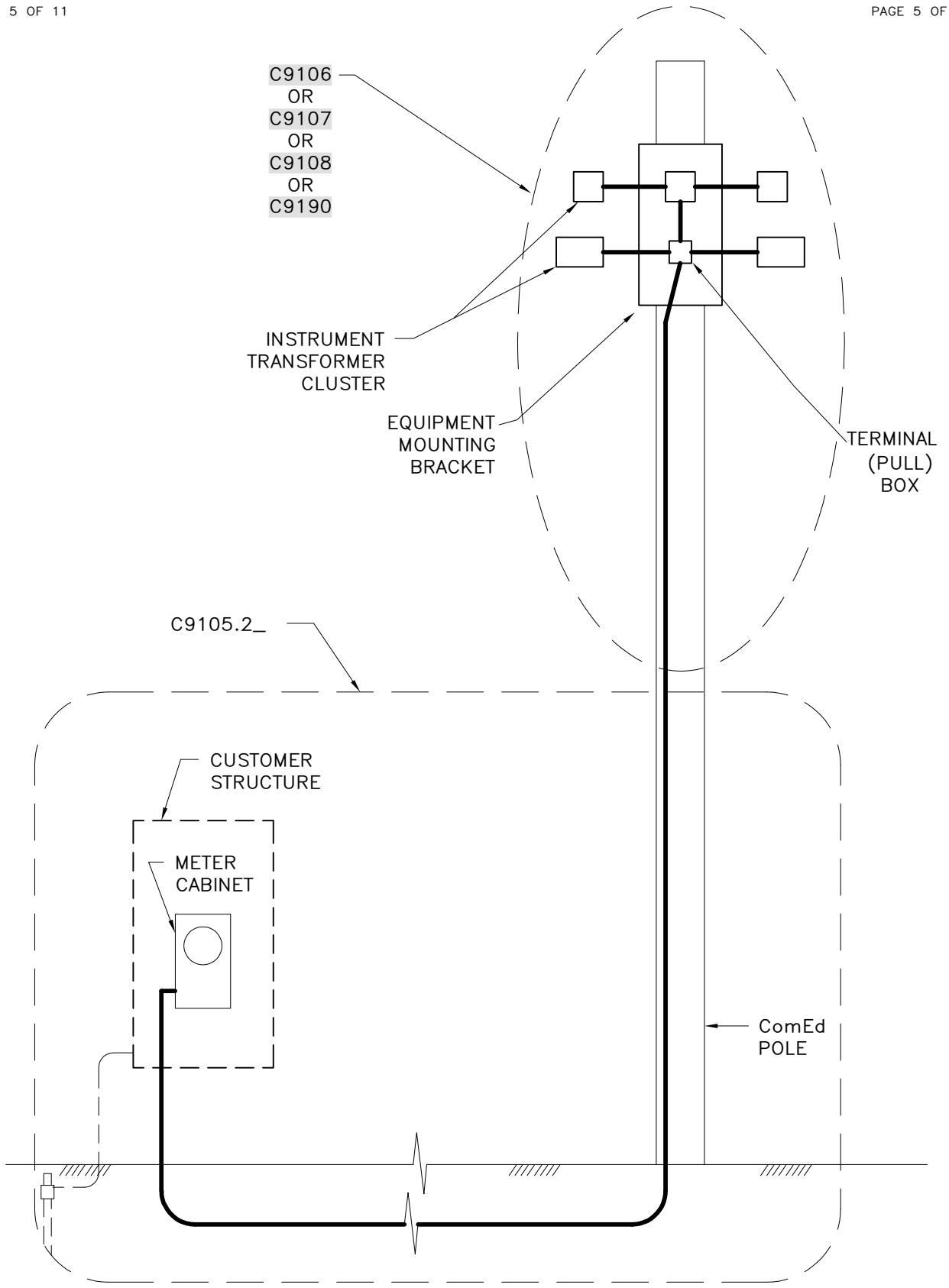

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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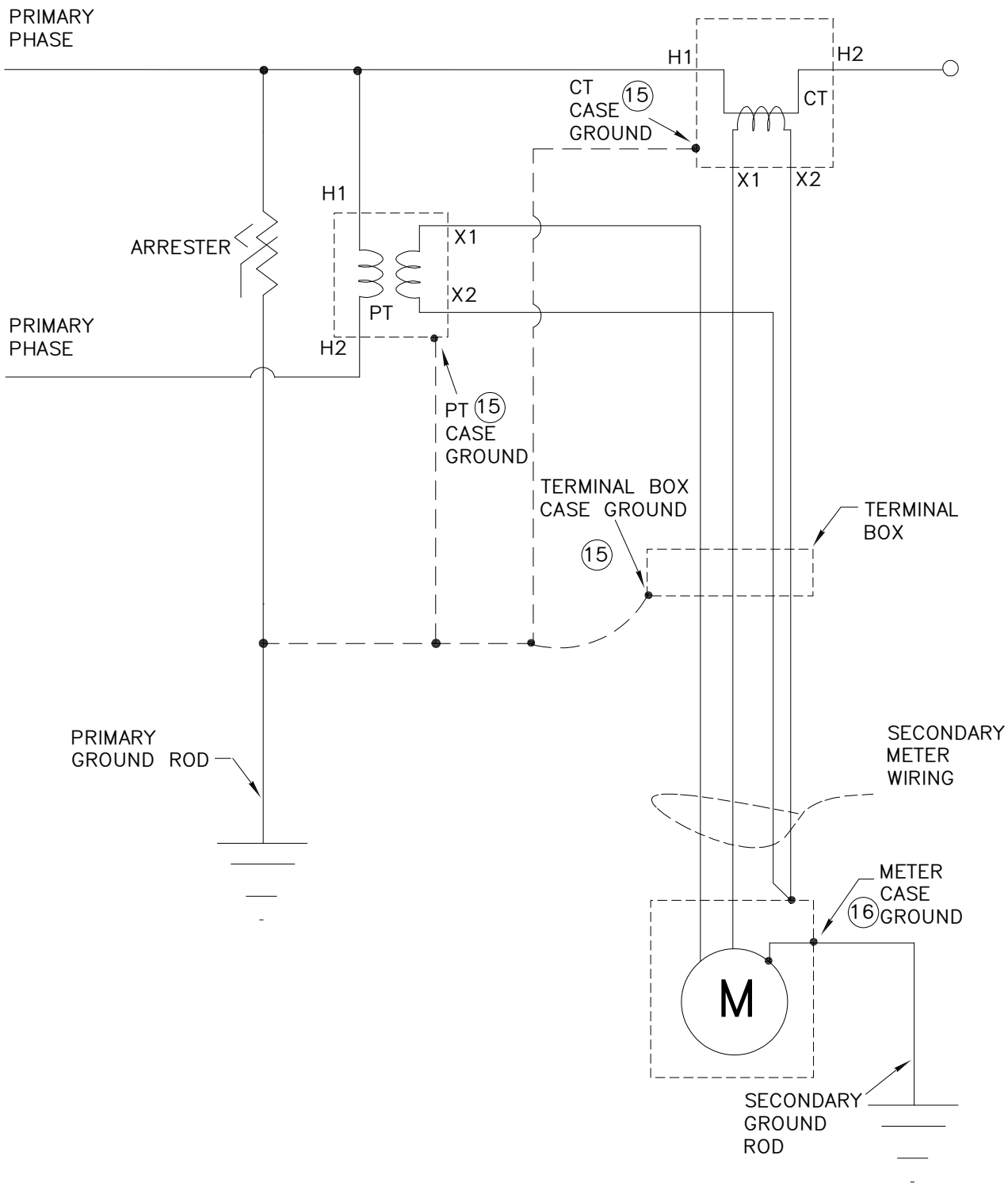

FIGURE-1

3-WIRE GROUNDING

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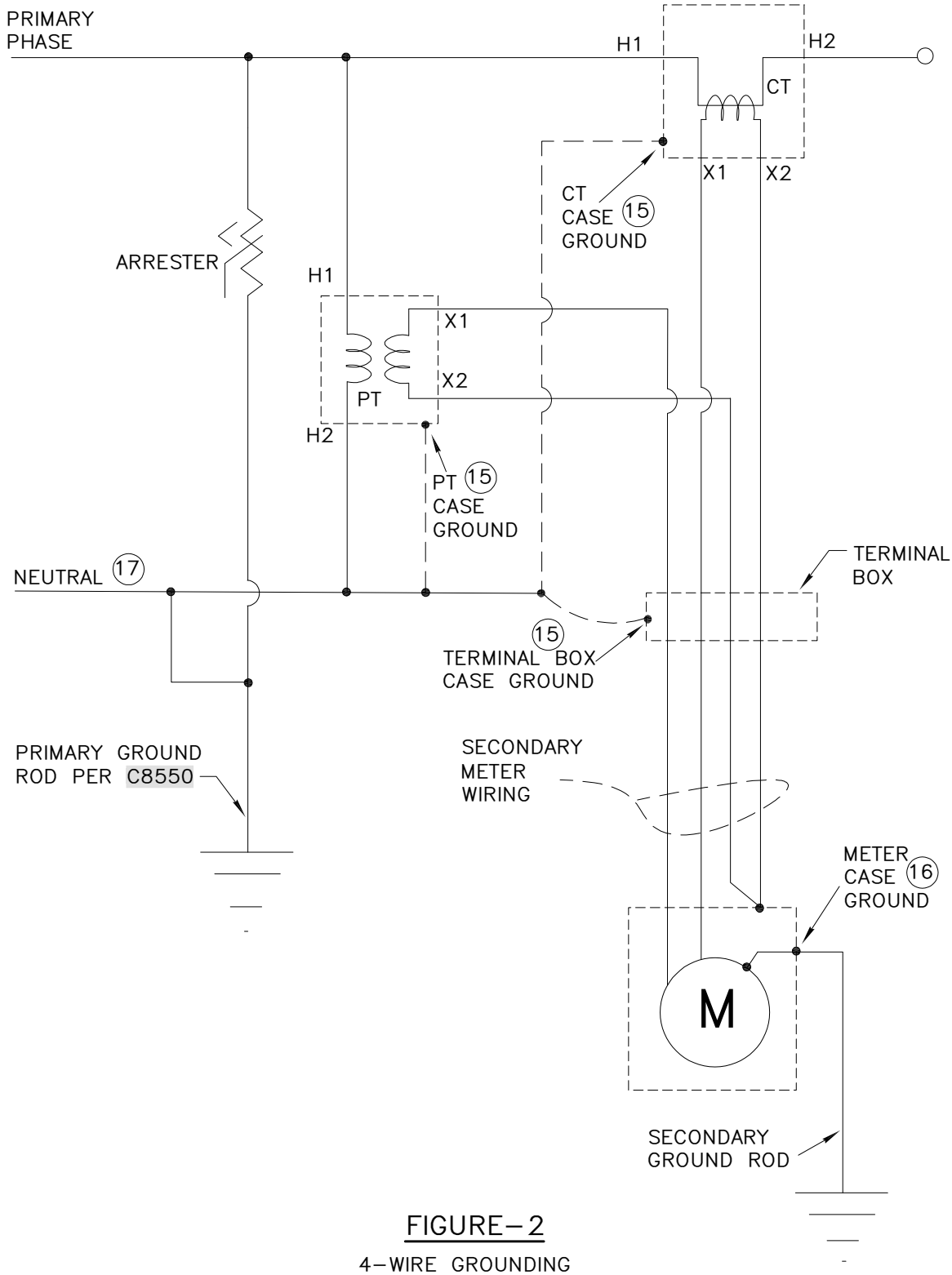

FIGURE-2

4-WIRE GROUNDING

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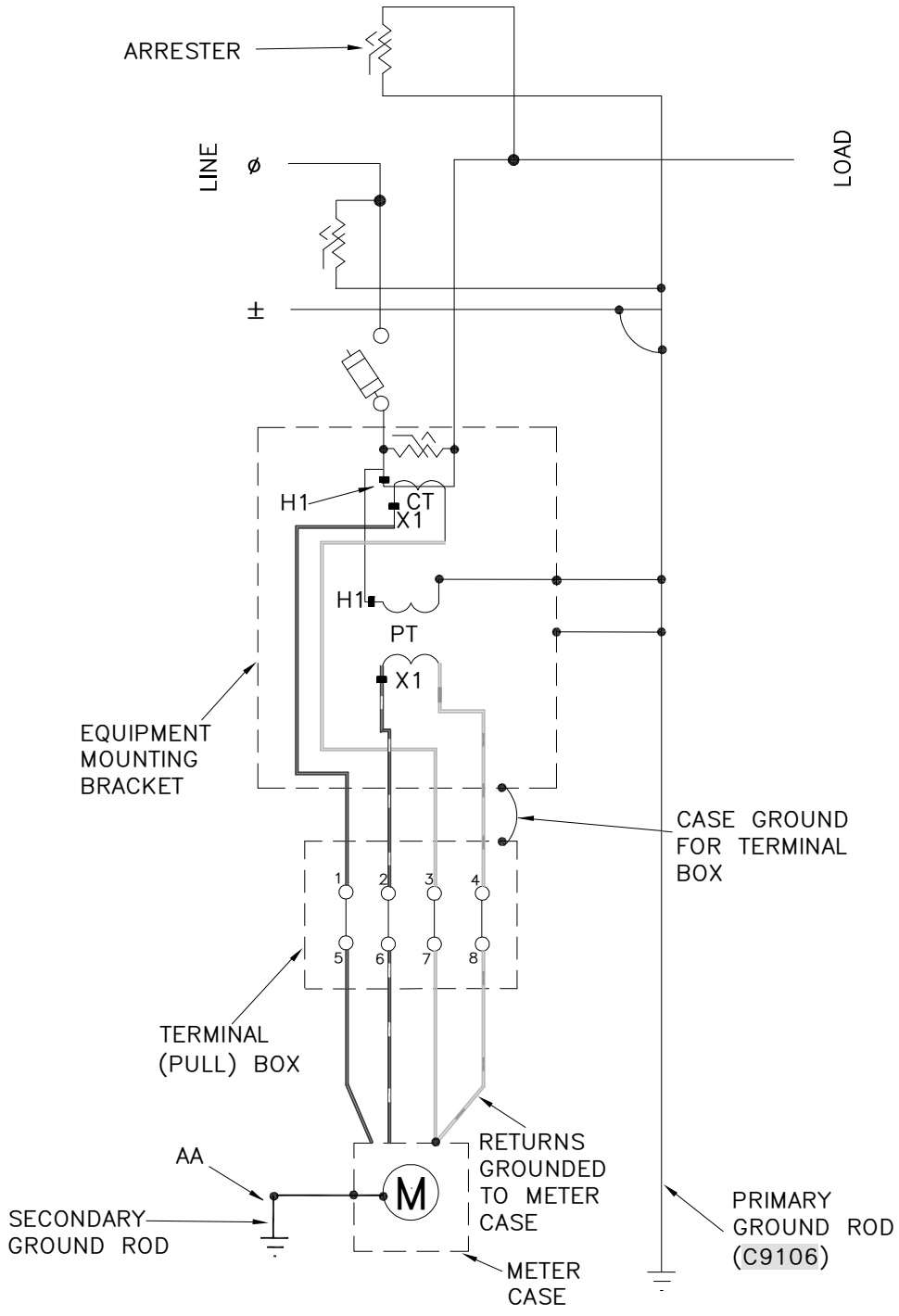

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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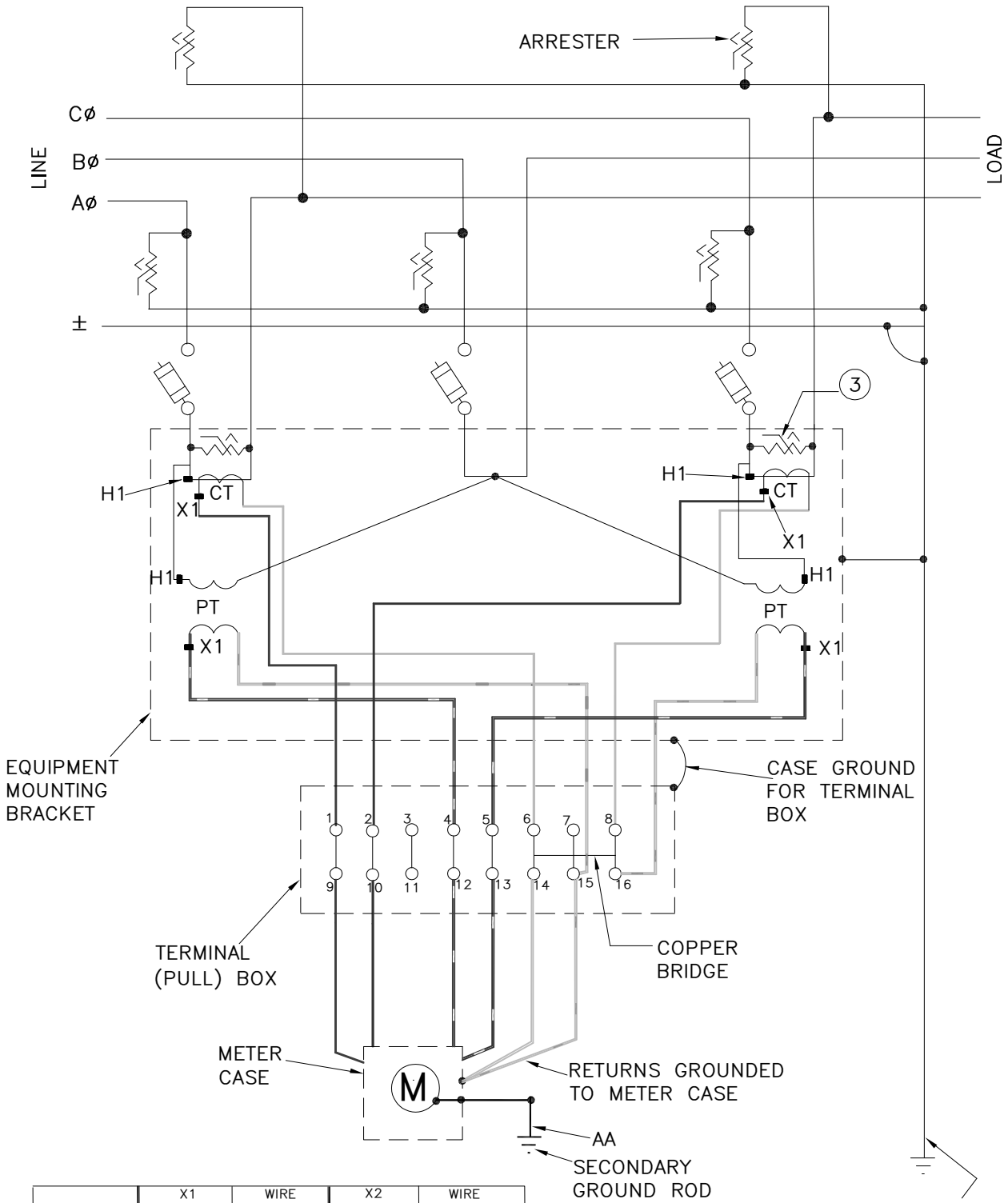

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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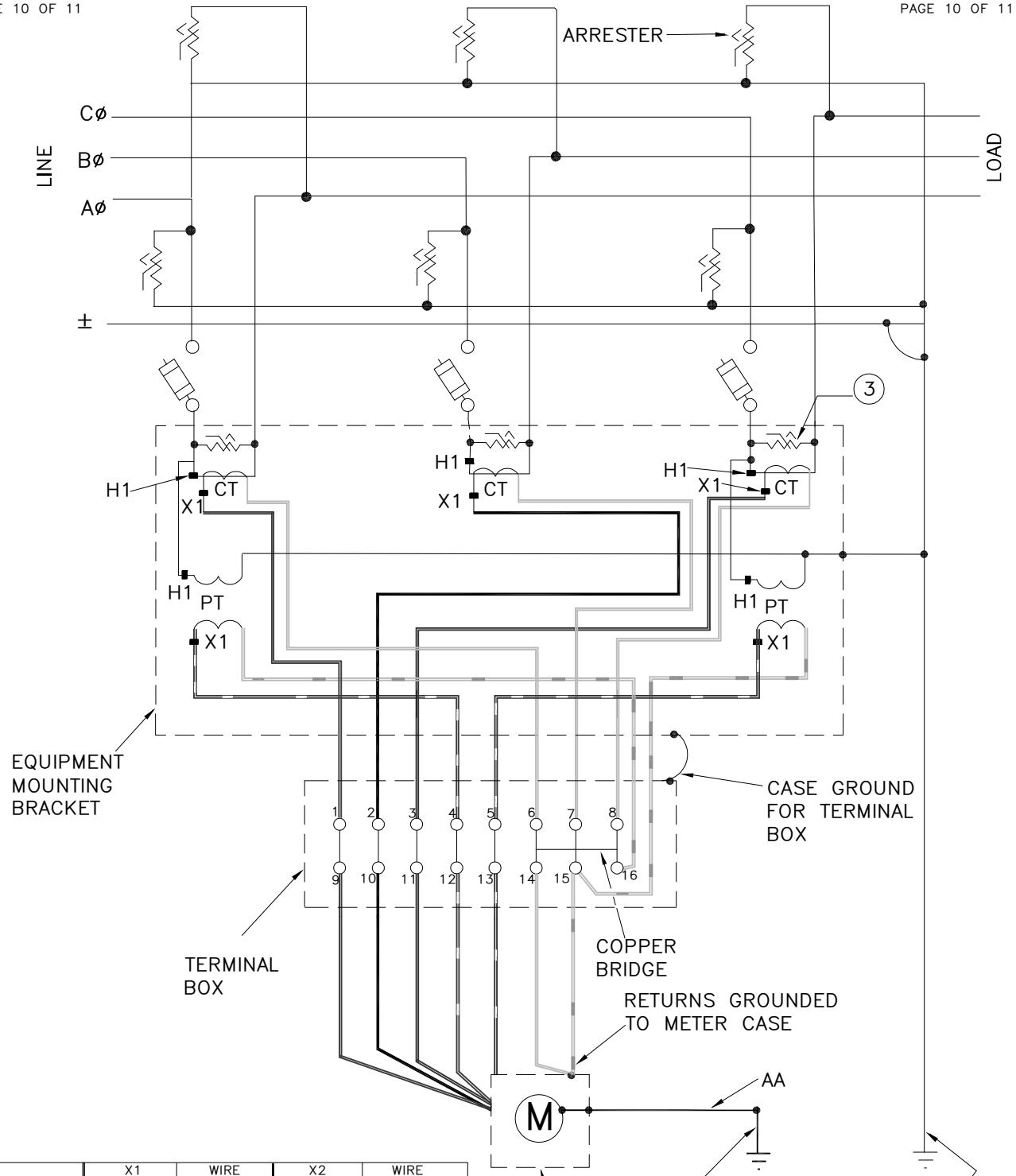

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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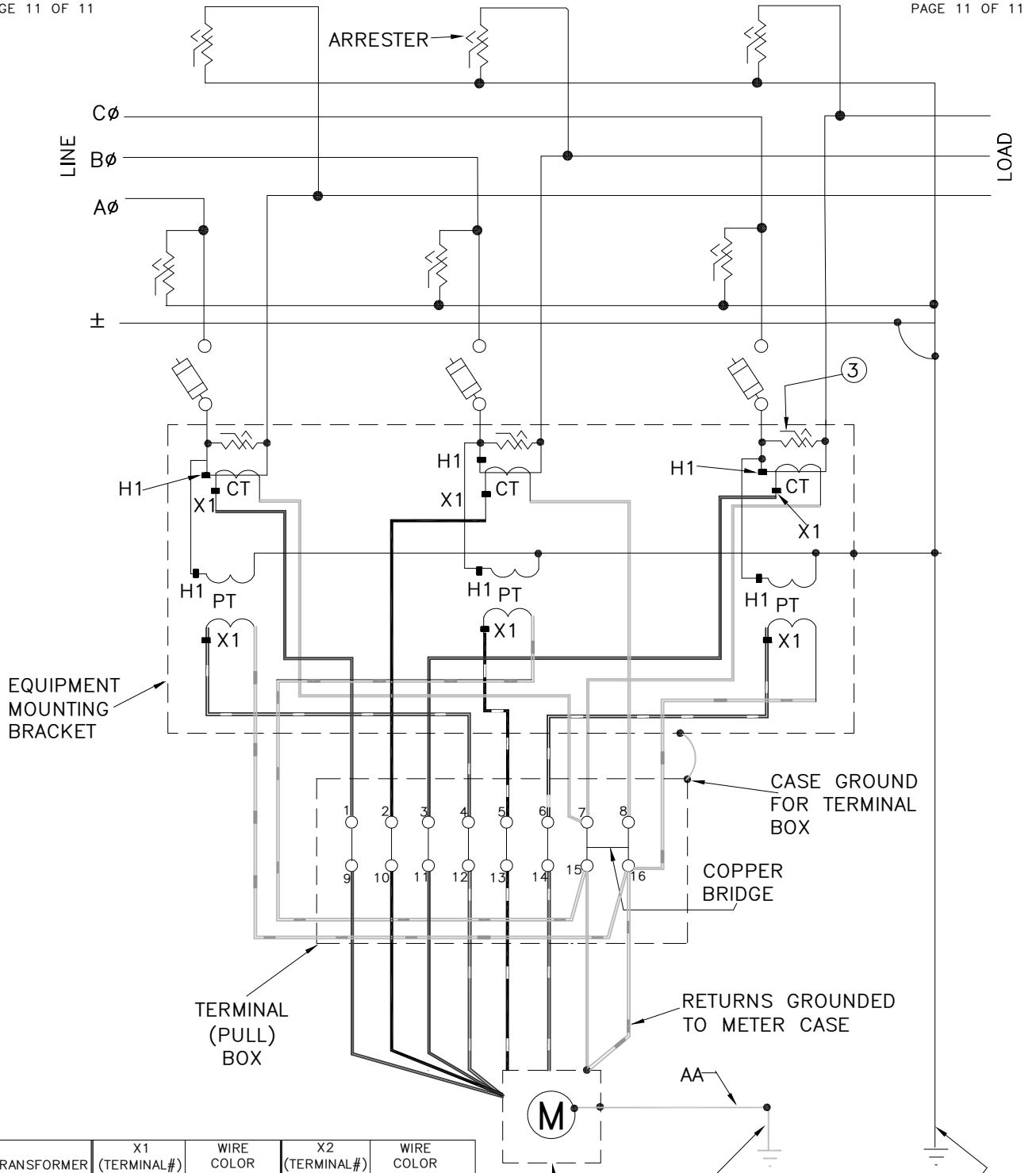

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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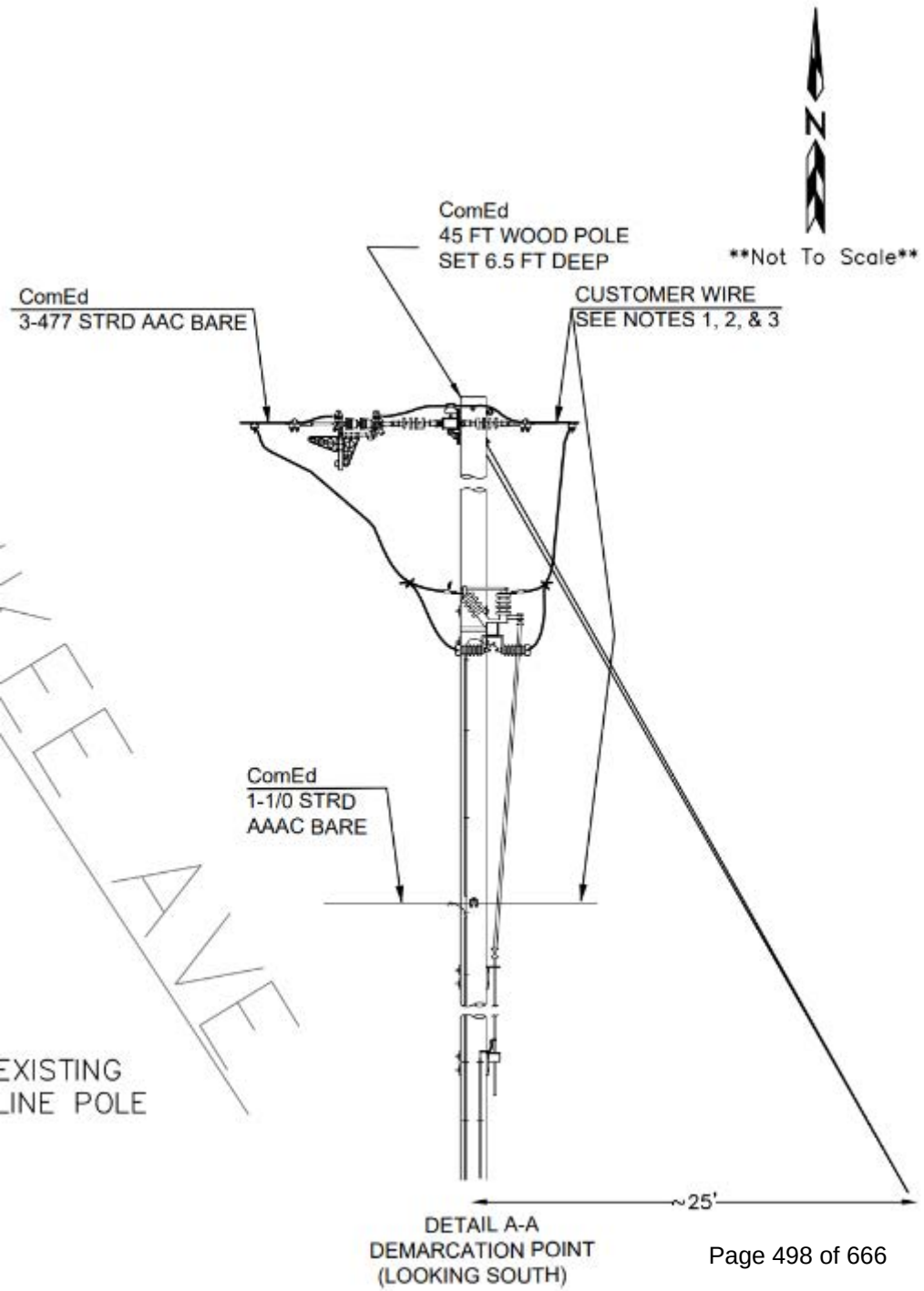
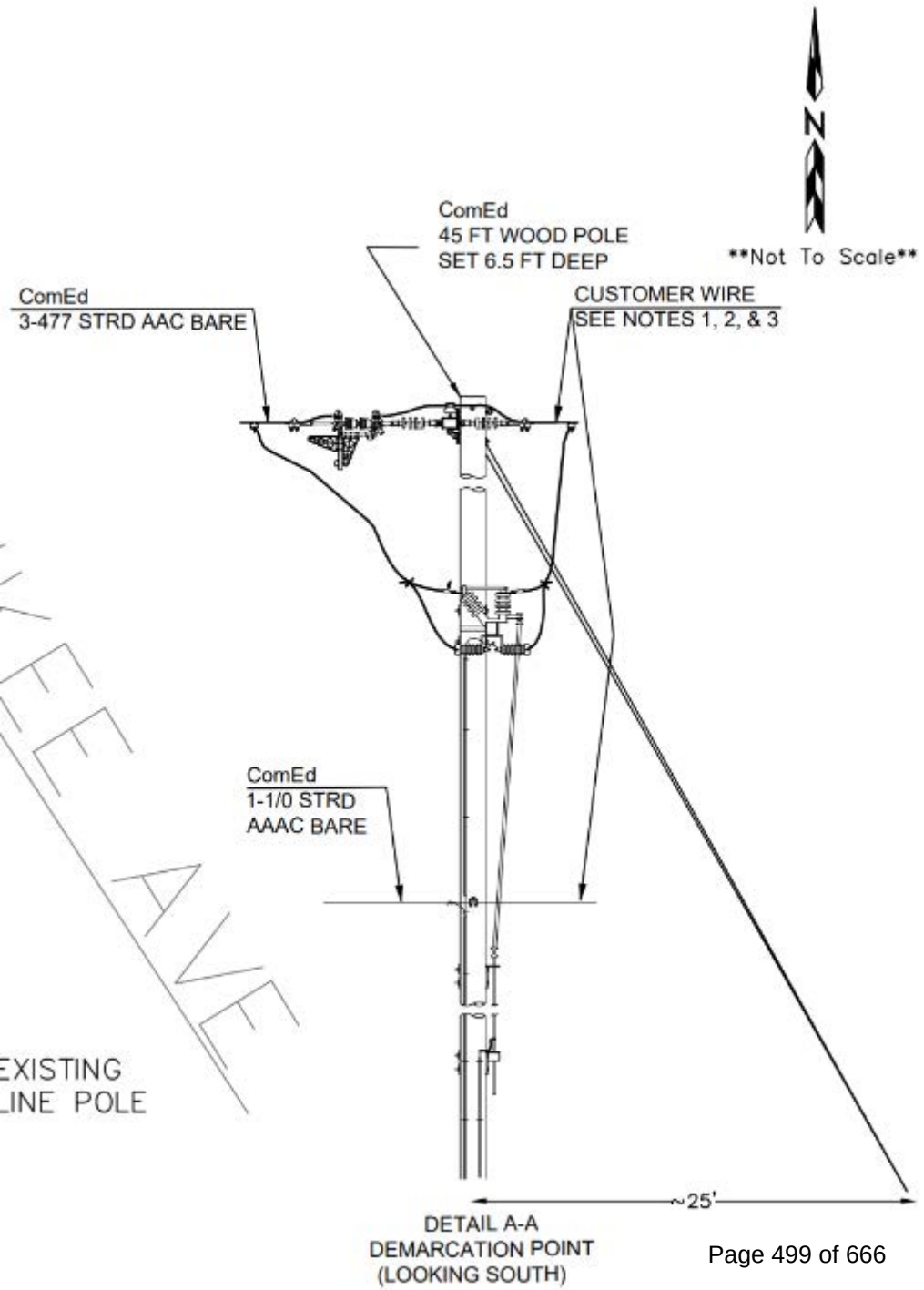


DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



DETAIL A-A
DEMARCATION POINT
(LOOKING SOUTH)



Heavy Duty Safety Switch

DH367NRK

UPC:782113639277

Dimensions:

- **Height:** 12.38 IN
- **Length:** 57.5 IN
- **Width:** 27.5 IN

Weight:210 LB

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** Single-Throw
- **Amperage Rating:** 800A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class L fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Three-pole
- **Number Of Wires:** Four-wire
- **Product Category:** Heavy Duty, Fusible with neutral
- **Voltage Rating:** 600V
- **Max Hp Rating:** 500 at 480 Vac TD 3 Ph, 500 at 600 Vac TD 3 Ph

Supporting documents:

- Eatons Volume 2-Commercial Distribution
- Eaton Specification Sheet - DH367NRK

Certifications:

- UL Listed

Product compliance: No Data

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INVERTER

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					°F / °C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

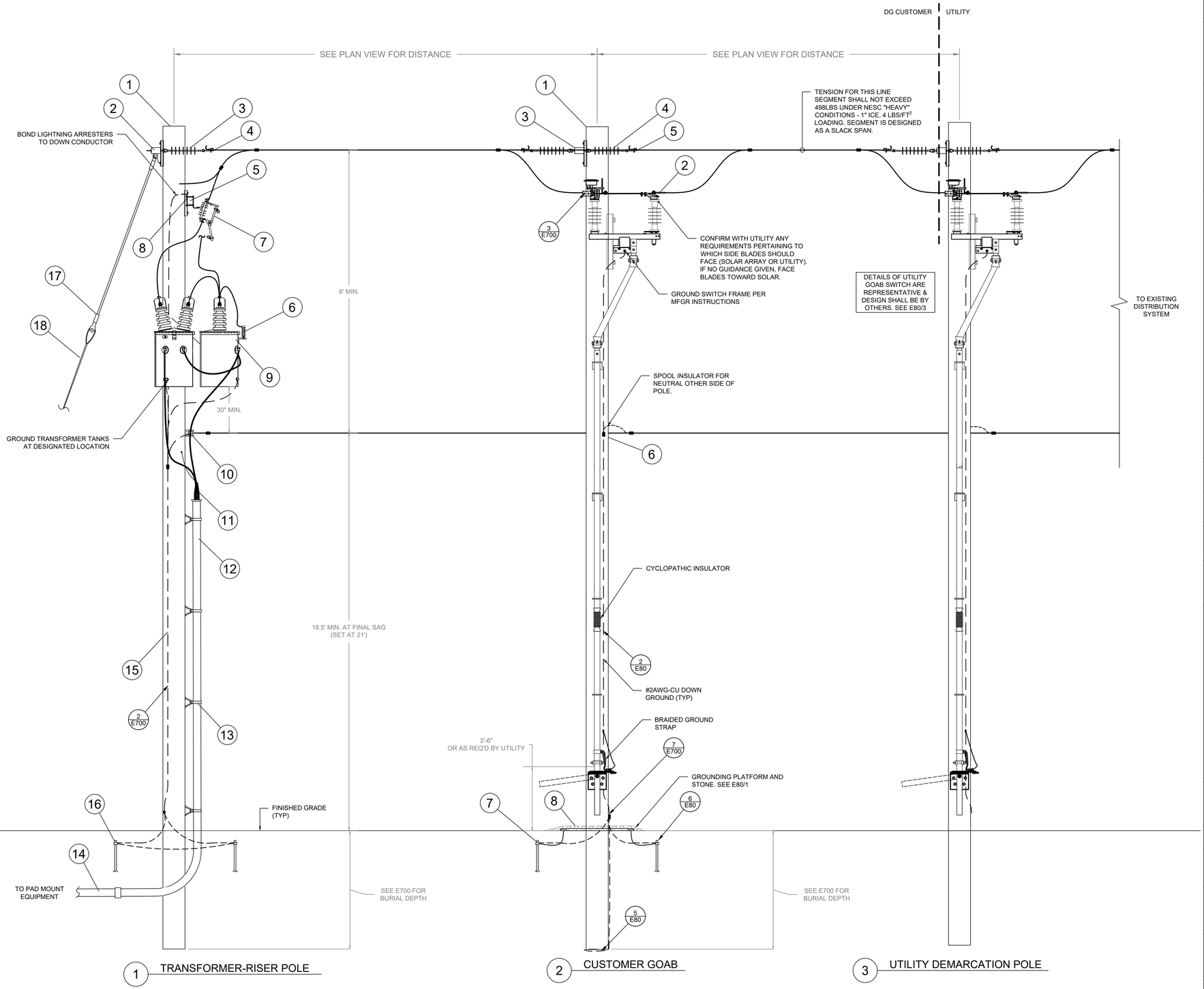
solaredge

RISER POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	Dead End Cross Arm	8' Fiberglass
3	3	Dead End Insulator	15kV Polymer
4	3	Strain Clamps	Coordinate with Supply Conductors; See table
5	2	Tangent Cross Arm	8' Fiberglass
6	3	Surge Arrester w/ Wildlife Covers	Riser Class. See line diagram for MCOV rating.
7	3	Polymer Fused Cutout with mounting hardware	100A body, see line diagram for ampere rating and speed.
8	3	Cutout Bracket	Cutout bracket for crossarm
9	3	Liquid Filled Pole Mount Transformers	KVA varies by site. Provide wildlife protectors if not furnished with transformer.
10	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
11	1	Cable Grip	Basket style cable grip--attach to pole with lag bolt to support conductors
12	20'	Schedule 80 PVC Conduit	Note: parallel conductors must be separated unless specifically allowed.
13	As needed	Conduit standoff supports	Coordinate with riser conduit size and quantity.
14	As needed	Schedule 40 PVC Conduit	After 90° fitting - to pad mounted equipment.
15	As needed	#2AWG-CU Solid	Ground/Down Conductor
16	2	Ground Rod	5/8" x 10' Coppperweld
17	1	Fiberglass guy strain	10' or as needed to extend past exposed live parts
18	As needed	Guy Wire	3/8" EHS Galvanized with preform grips
19	1	Guy Wire Guard	Yellow, 8' minimum
20	1	Guy Anchor	As required for loading and soil conditions. 10" dia. Helix, 1-1/4" x 96" rod min.
	As needed	Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required

GOAB POLE BILL OF MATERIALS

Callout #	Qty	Equipment Name	Equipment Specification
1	1	Treated Wood Pole	45 foot pole (or higher to match Utility Pole Height) Class 2.
2	1	GOAB Switch	15kV, 600A, Horizontal Configuration, Ground Operator - Torsional, 1.5" OD Pipe Control
3	1	Dead End Cross Arm	8' Fiberglass
4	6	Dead End Insulator	15kV Polymer
5	6	Strain Clamps	Coordinate with Supply Conductors
6	1	Insulated Spool Clevis & Preform Grip	For Neutral Wire
7	2	Ground Rod	5/8" x 10' Coppperweld
8	1	Galvanized Steel Grate & #2 Stone	See detail Sheet E700
	As needed	ACSR Overhead Wire	477kcmil AAC, for phase and neutral conductors
	As needed	Copper covered "tap/riser" wire. 110 mils polyethylene covering	#2AWG-CU For all connections below main conductors.
	6	Compression Fittings for GOAB	2-hole NEMA. Coordinate with Supply Conductors.
	As needed	Conductor connectors	Parallel groove clamp; coordinate sizing with conductors.
	As needed	#2AWG-CU Solid	Ground/Down Conductor
	As needed	C-Crimps for Ground	#2AWG-CU TO #2 AWG-CU
	16'	1" Half-Round	For down conductor
	As needed	Staples	Barbed Square Shank
	As needed	Mounting Hardware	Lags, Bolts, Nuts, Washers as required
	1	Padlock for LOTO	If required by utility/owner
	Lot	Labels	"PHOTOVOLTATIC (SOLAR) AC DISCONNECT", Site Plan Label, others as required by utility.



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EXACTUS ENERGY
NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
OF ILLINOIS
Exp. 11/30/25

TYPICAL MV ELEVATIONS ILLINOIS PORTFOLIO

DRAWN BY
JS

CHECKED BY

DATE
23-Sep-2024

DRAWING LEVEL
ISSUED FOR CONSTRUCTION

REV.	DATE	DRAWING LEVEL
A		
B		
C		
D		
E		

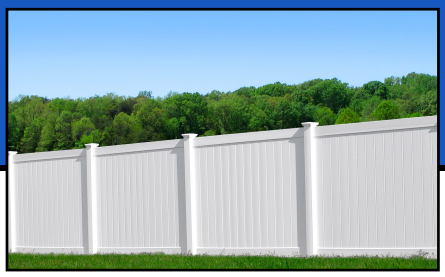
SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
NTS

SHEET TITLE

E81

MEDIUM VOLTAGE ELEVATIONS



VINYL FENCE WHOLESALER
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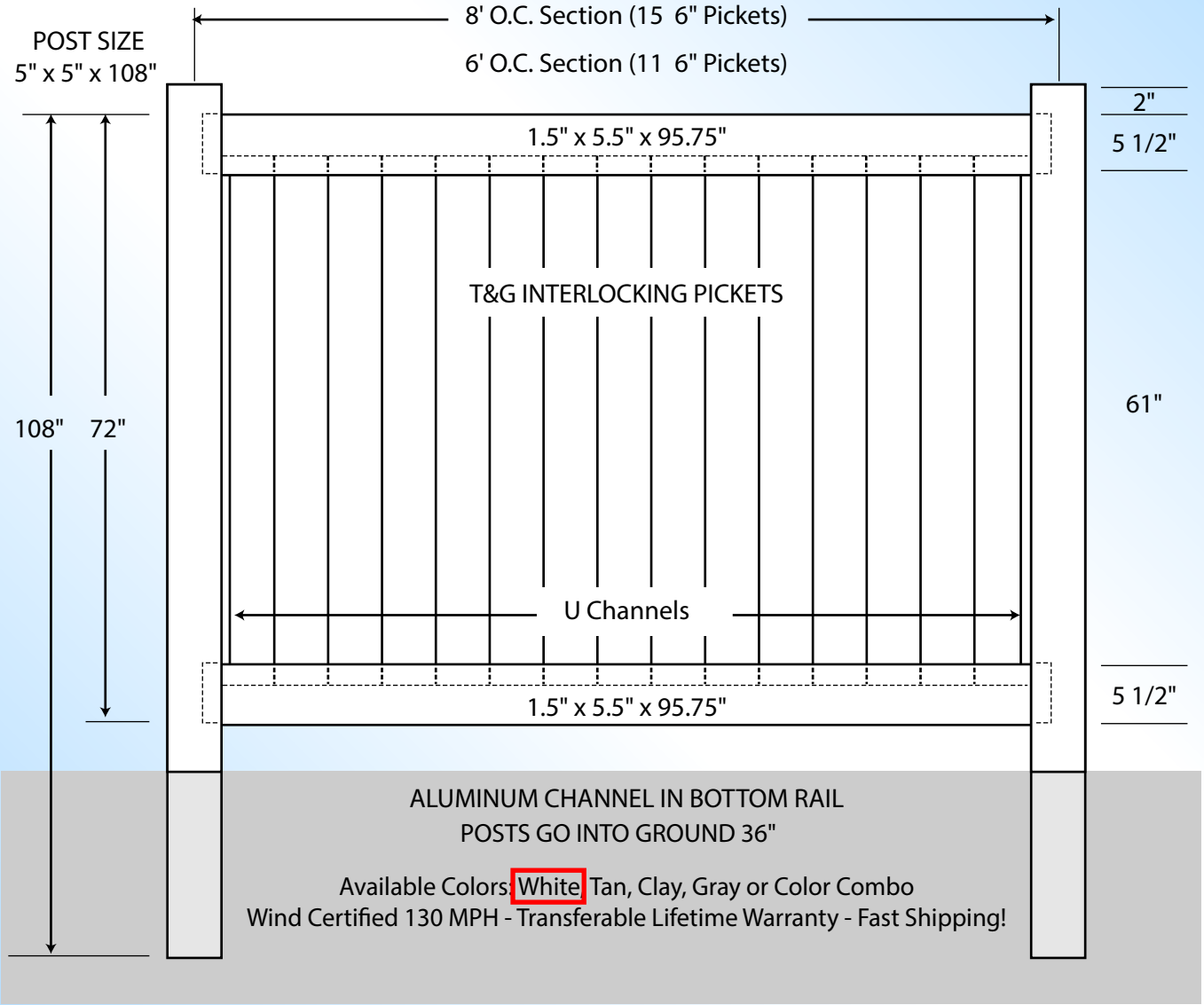
OR APPROVED EQUAL

VINYL FENCE WHOLESALER

Technical Specifications - Rainier Privacy Fence

6' Tall (8' Wide or 6' Wide Sections)



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Rainier Privacy Fence System - Features & Benefits

Commercial Grade - Heavy-Duty - Lifetime Warranty - 24/7 Installation Support

OR APPROVED EQUAL

VINYL FENCE WHOLESALER
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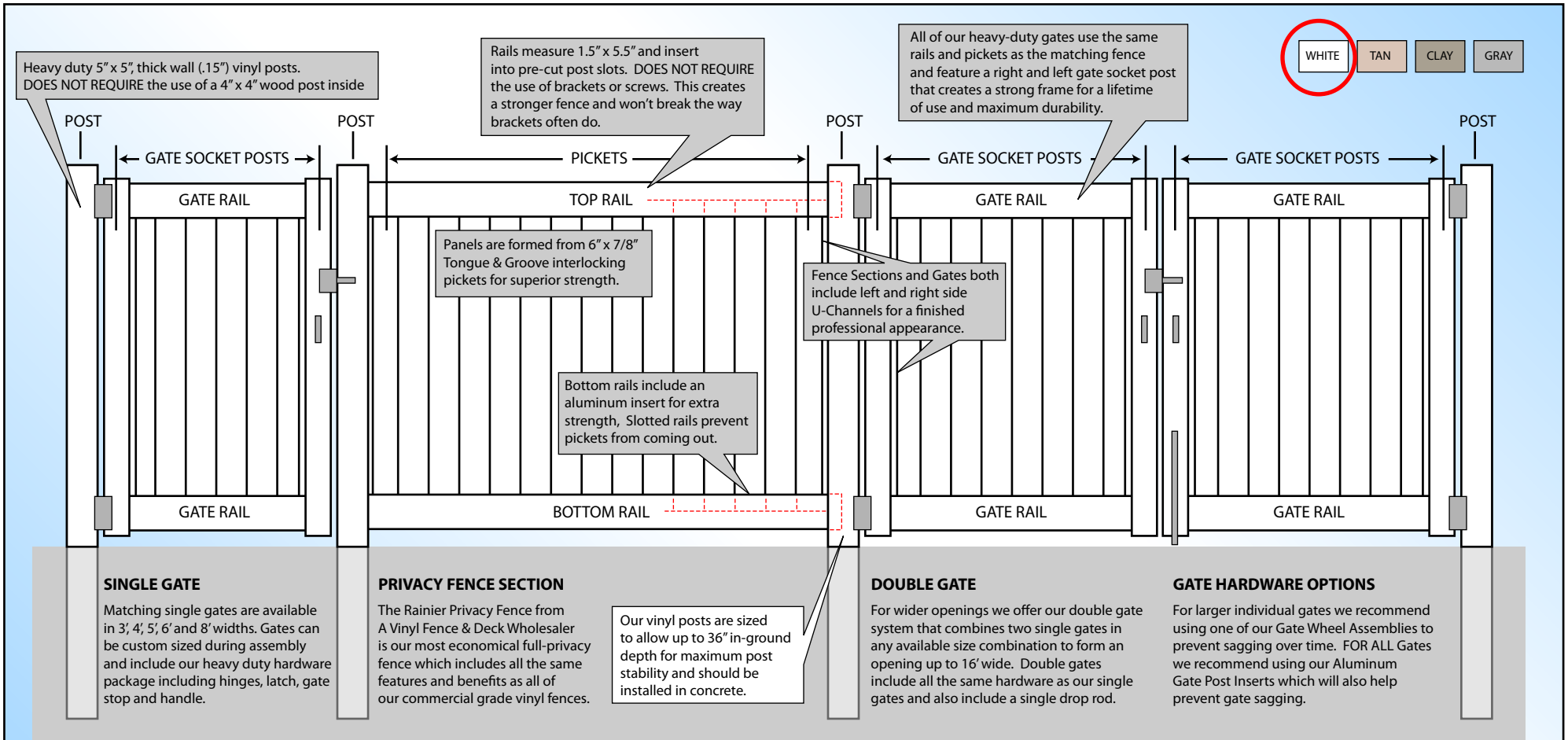

SINGLE GATE

Matching single gates are available in 3', 4', 5', 6' and 8' widths. Gates can be custom sized during assembly and include our heavy duty hardware package including hinges, latch, gate stop and handle.

PRIVACY FENCE SECTION

The Rainier Privacy Fence from A Vinyl Fence & Deck Wholesaler is our most economical full-privacy fence which includes all the same features and benefits as all of our commercial grade vinyl fences.

DOUBLE GATE

For wider openings we offer our double gate system that combines two single gates in any available size combination to form an opening up to 16' wide. Double gates include all the same hardware as our single gates and also include a single drop rod.

GATE HARDWARE OPTIONS

For larger individual gates we recommend using one of our Gate Wheel Assemblies to prevent sagging over time. FOR ALL Gates we recommend using our Aluminum Gate Post Inserts which will also help prevent gate sagging.

THE RAINIER PRIVACY FENCE IS WIND CERTIFIED TO 130 MPH

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Phone: (507) 206-4154 - Website: www.vinylfenceanddeck.com

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PV25-0014, Request for a Variation to Reduce the Minimum Sideyard Setback from 25 Feet to 8.4 Feet for Construction of Ground-Mounted Equipment Associated with a Proposed Rooftop Solar Collection System for Cubsemart, L.P. (1042 S. Milwaukee Avenue). **PUBLIC HEARING**
RECOMMENDED ACTION: **Recommend approval of Docket No. PV26-0014** granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections, to permit a decrease in the minimum required front yard setback from 25 feet to 8.4 feet for installation of a 600 kW rooftop solar collection system and associated ground-mounted equipment for Cubesmart, L.P., located at 1042 S. Milwaukee Avenue, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/4/2026; Equipment Specification Sheets; and subject to the following conditions:

1. Approval of the variance is contingent upon approval of PSPMIN26-0005 (minor site plan and building appearance approval).

EXECUTIVE SUMMARY

Docket No. PV25-0014: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner, is seeking a variation to permit a decrease in the minimum required front yard setback from 25 feet to 8.4 feet for ground-mounted equipment associated with a proposed rooftop solar collection system for the property located at 1042 S. Milwaukee Avenue, as required in Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections.

GENERAL PROPERTY INFORMATION
Petitioner: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner

Location: 1042 S. Milwaukee Avenue

Property size: 2.83 acres / 76,011 sq. ft. (buildings)

Neighboring Property Land Use(s):
North: Commercial
West: Industrial
South: Industrial/Commercial
East: Open Space (across S. Milwaukee Avenue)

Existing Use of Property: Public Storage Facility (Cubesmart)

Existing Zoning: B-3 (General Commercial and Office) and I-3 (General Industrial)

Comprehensive Plan Designation: Industrial

Zoning History:

- Docket #SCBA 05-45, approved 9/22/2005, granting approval of a freestanding sign.
- Ordinance No. 4538, approved 7/12/2010, granting a variation to permit a sign to exceed 100 sq. ft. due to the addition of an electronic message center (Docket #2010-15).
- Docket #SCBA 11-59, approved 11/17/2011, granting approval for a freestanding sign and awning sign.
- Docket #SCBA 17-20, approved 4/4/2017, granting an administrative approval of a freestanding sign face change.

SUMMARY OF REQUEST

The petitioner is requesting a variation to permit a decrease in the minimum required front yard setback from 25 feet to 8.4 feet for the property located at 1042 S. Milwaukee Avenue feet associated with the installation of a proposed 600 kW rooftop solar collection system and related ground-mounted equipment on the existing Cubesmart self-storage buildings.

In addition, the petitioner is seeking Minor Site Plan and Appearance approval for proposed rooftop solar collection system and associated ground-mounted equipment (Docket No. PSPMIN26-0005).

VARIATION

A variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

As detailed in Docket No. PSPMIN26-0005, the petitioner is proposing to install a rooftop solar collection system on the existing self-storage buildings at the Cubesmart facility. Included with the solar collection system is associated ground-mounted equipment to be located within the front yard and setback along Milwaukee Avenue. Since all the ground-mounted equipment will be located within the required front building setback, the petitioner is requesting a variation to permit a decrease in the minimum required front yard setback from 25 feet to 8.4 feet.

Although the solar panels will be installed on the rooftops of the existing self-storage buildings, the associated ground-mounted equipment will be installed within the front yard (setback) along Milwaukee Avenue thus placing all impacts of this request within the public view. As such, staff is not supportive of this request given all mechanical equipment should not be encouraged to be located in front yards and the associated visual impacts.

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request.

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.**

   Petitioner: The subject parcel is already fully developed with a Cubesmart storage facility. The proposed roof top solar project does not involve the removal or demolition of any of the existing improvements. The proposed roof top solar project utilizes the roof tops of the existing structures. In addition to the roof top solar panels, the Project requires ground level interconnection facilities such as transformers and electrical poles. These interconnection facilities must be located in an area approved by Commonwealth Edison. Accordingly, the location of these above-ground interconnection facilities is restricted by the existing improvements on the subject parcel and Commonwealth Edison's requirements. The only feasible location for the project interconnection facilities is within the setback area. Without the reduced front yard setback variation the roof top solar project cannot be installed.

   Staff: The subject property does not exhibit unique physical surroundings, shape, or topographical conditions that create a practical difficulty in complying with the applicable zoning regulations. Based on the existing development of the self-storage facility demonstrates a lack of unique physical constraints that prevent the subject site from being developed and used to the strict letter of the code regulations. The optional desire to install a solar energy system by the petitioner presents a mere inconvenience.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other properties or uses.**

   Petitioner: This hardship is unique because roof top solar projects seek to provide a beneficial additional use utilizing existing structures on developed parcels. When the Cubesmart facility was developed, it was not contemplated that years later the facility would be suitable for a roof top solar project which will utilize the otherwise unused space of the facility roof to provide clean renewable energy to the grid. Additionally, unlike other improvements, the interconnection facilities are subject to and must be approved by Commonwealth Edison.

Accordingly, these circumstances are unique and different from other types of constructions and uses.

Staff: The hardship is not due to unique physical characteristics of the subject property, but rather the petitioner's desire to retrofit the site with rooftop solar infrastructure and associated interconnection equipment. While utility requirements may influence design, such conditions are not uncommon and do not constitute a unique circumstance that distinguishes the property from others.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**

Petitioner: The hardship in complying with the setback requirements for the electrical interconnection equipment arises from the unique situation of seeking to utilize an already developed parcel and meeting the interconnection requirements of Commonwealth Edison. When the Cubesmart facility was developed, it was not contemplated that roof top solar energy project would be built and therefore no effort was made to accommodate it in the facility design. Neither the applicant nor the property owner created this situation.

Staff: The hardship is self-imposed. The subject property was developed in compliance with prior zoning regulations, and the current request arises from the petitioner's decision to introduce a new use and associated infrastructure that was not previously contemplated.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**

Petitioner: The property in question here is the large and un-utilized roof top space on the storage facility buildings. This unused space (here and at other commercial and industrial locations throughout the Chicago area) present an opportunity to use this space to produce clean renewable energy. This energy production is able to be done with relatively minor additions to the current facility, placing solar panels on the roof and the installation of the electrical interconnection infrastructure. As stated above, without the variance the interconnection facilities cannot be installed on the subject parcel and therefore the roof top solar project cannot be developed. If the variance is not granted, the opportunity for this beneficial clean energy use is lost.

Staff: The subject property can continue to yield a reasonable return under the existing zoning regulations as a storage facility. The inability to implement the proposed rooftop solar installation does not prevent the property from functioning as intended or generating economic return.

5. **State how the granting of the variation will not alter the essential character of the locality.**

Petitioner: Solar panels on commercial roof tops will have no impact upon surrounding properties in this area, and such installations are commonplace on residential, commercial and industrial properties. The variance concerns electrical interconnection facilities which consist of ground level electrical equipment and electrical poles. These types of facilities are located everywhere in the Chicago metropolitan area and are generally unnoticed by the general public. In the Village's commercial district, and with the proposed fencing, the granting of this variance should not cause any impact upon surrounding property.

Staff: The proposed variation may alter the character of the locality due to the introduction of additional ground-mounted utility equipment within the front yard setback area. While utility infrastructure exists within the zoning district, the placement and visibility of the proposed equipment would not be consistent with the established development pattern.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.**

Petitioner: The installation of the roof top solar panels only require an increase of height several inches above the current roof top and will therefore not impair supply of light and air to adjacent property. Community roof top solar projects requires only periodic maintenance and therefore will not create any noticeable traffic in the public streets. Roof top solar projects have been safely and successfully installed at residential, commercial and industrial buildings for decades and do not pose unreasonable risk of fire or endanger the public safety. Roof top solar projects are located throughout the United States and do not impair property values, create traffic, noise, odor, light or smoke. Emergency access to the site is not affected by the proposed improvements.

Staff: The proposed variation has the potential to impact adjacent properties and the public due to the placement of utility equipment and associated infrastructure within the street frontage.

STAFF REVIEW
Fire Department Review: No comments related to the Variation.

Engineering Division Review: No comments related to the Variation.

Staff Recommended Action: Staff does not recommend approval of the variation request.

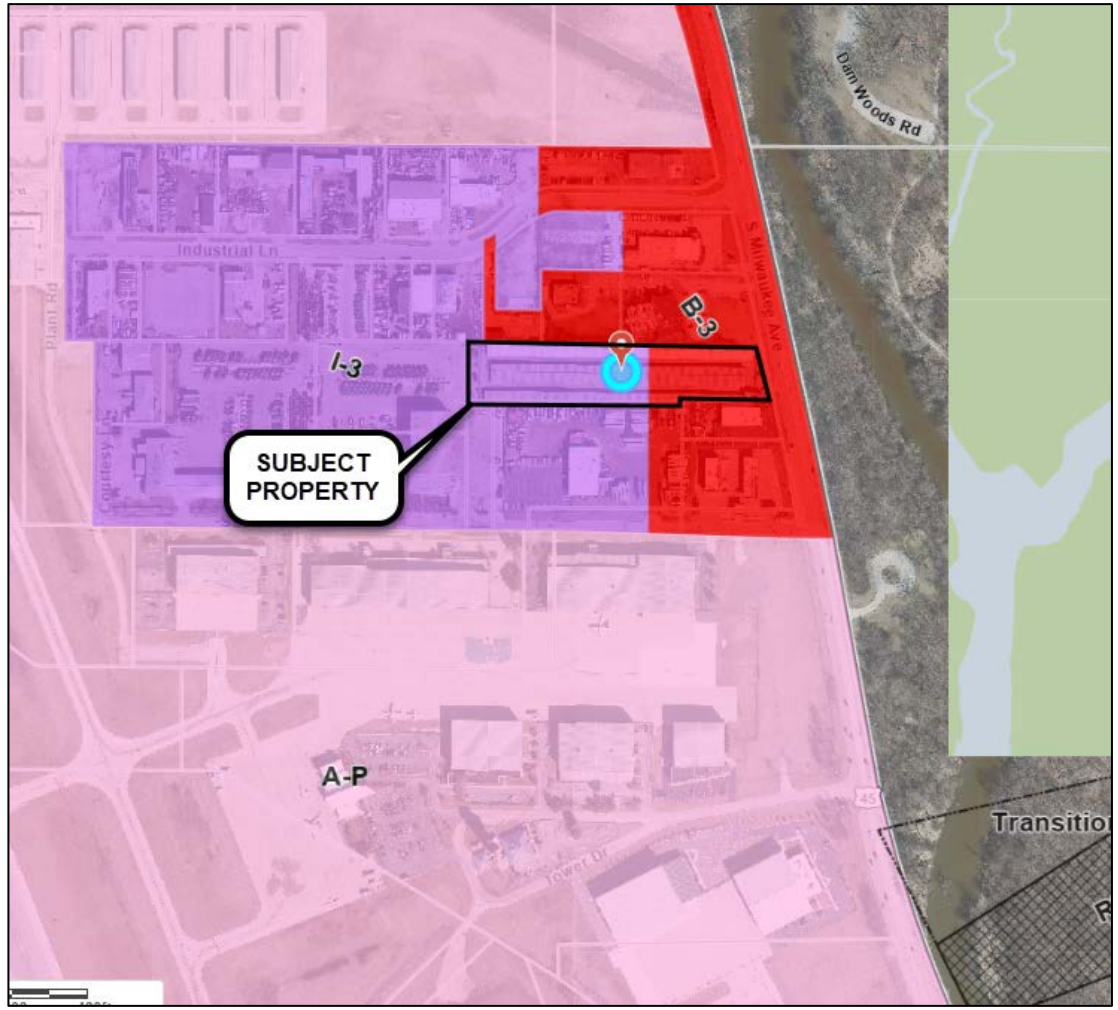
****
If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of a variation, the appropriate motion would be to:

Recommend approval of Docket No. PV26-0014granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.06.040, B-3 General Commercial and Office District, and associated sections, to permit a decrease in the minimum required front yard setback from 25 feet to 8.4 feet for installation of a 600 kW rooftop solar collection system and associated ground-mounted equipment for Cubesmart, L.P., located at 1042 S. Milwaukee Avenue, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/4/2026; Equipment Specification Sheets; and subject to the following conditions:

1. Approval of the variance is contingent upon approval of PSPMIN26-0005 (minor site plan and building appearance approval).



LOCATION MAP



ZONING MAP



Photo of Project Area Facing North

Received 10/27/2025

601 Bangs Ave, Suite 301
Asbury Park, NJ 07712
O. 844.765.2769
SOLARLANDSCAPE.COM

Project Narrative
1042 S Milwaukee Ave, Wheeling, IL

(1) Owner and/or developer's name, phone number and address;

DEVELOPER

SOLAR LANDSCAPE LLC

601 BANGS AVENUE, SUITE 301

ASBURY PARK, NJ 07712

PHONE: (856) 437-9711

CONTACT: EMILY MCCUE

PROPERTY OWNER

CUBESMART L.P.

5 OLD LANCASTER RD

MALVERN, PA 19355

PHONE: 610-535-5407

CONTACT: ANDREA PRUDENTE

(2) Where applicable, the architect's or engineer's name, phone number and address;

CIVIL ENGINEER

ATWELL, LLC

1250 EAST DIEHL ROAD, SUITE 300

NAPERVILLE, IL 60563

PHONE: (630) 577-0800

FAX: (630) 577-0900

CONTACT: MICHAEL KEITH, P.E.

(3) Description of all proposed buildings indicating proposed uses and building size;

N/A – no new buildings proposed

Proposed Use of Existing Buildings:

Installation of a 600 kW AC rooftop community solar array on existing Cubesmart buildings on the property located at 1042 S Milwaukee Ave, Wheeling, IL.

(4) Descriptions of the location, type and size of all outside signs;

No proposed monument signs. Only regulatory signs (i.e. WARNING: TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE THIS PANEL or any required regulatory signs/labels needed for the equipment).

(5) Calculations indicating the total site size, building floor area, number of parking spaces, amounts of impervious surfaces, and amount of nonimpervious green space.

N/A – no revisions to the existing property/structures

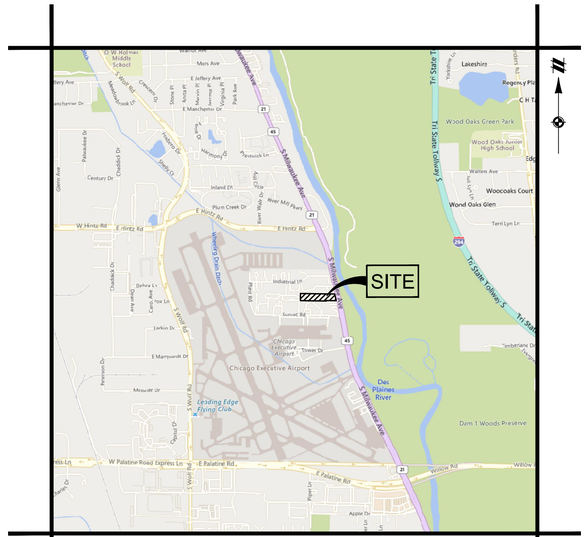
Existing Features On-Site:

- Site Area: 2.83 Acres
- Gross Floor Area of Existing Building footprints: 76,011 square feet.
- 2 marked existing parking spaces.
- Existing Impervious Area: 2.77 Acres
- Existing Non-Impervious Area: 0.06 Acres

CS IL 1042 MILWAUKEE AVE

1042 SOUTH MILWAUKEE AVENUE
WHEELING, COOK COUNTY, ILLINOIS

SPECIAL USE PERMIT PLANS



VICINITY MAP
NOT TO SCALE

DEVELOPMENT TEAM

DEVELOPER
SOLAR LANDSCAPE LLC
601 BANGS AVENUE, SUITE 301
ASBURY PARK, NJ 07712
PHONE: (856) 437-9711
CONTACT: EMILY MCCUE

CIVIL ENGINEER
ATWELL, LLC
1250 EAST DIEHL ROAD, SUITE 300
NAPERVILLE, IL 60563
PHONE: (630) 577-0800
FAX: (630) 577-0900
CONTACT: MICHAEL KEITH, P.E.

SURVEYOR
JLH LAND SURVEYING INC.
2621 CANYON DRIVE
PLAINFIELD, IL 60586
PHONE: (815) 669-3791

GOVERNING AGENCIES & UTILITY CONTACTS

MUNICIPALITY/PLANNER
DIRECTOR OF COMMUNITY DEVELOPMENT
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: ROSS KLICKER

CITY ENGINEER
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

ELECTRIC
COMED
PHONE: (800) 334-7661

SOIL EROSION
VILLAGE ENGINEER
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2620
CONTACT: KYLE GOETZELMANN

WATER & SEWER
UTILITY SUPERINTENDENT
77 WEST HINTZ ROAD
WHEELING, IL 60090
PHONE: (847) 279-6928
CONTACT: JEFF WOLFGRAM

GAS
NICOR GAS
PHONE: (888) 642-6748

LEGAL DESCRIPTION

THAT PART OF THE SOUTH 1320.00 FEET OF THE NORTH 1/2 OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH 132.0 FEET OF THE SOUTH 1320.0 FEET OF THE NORTH 1/2 OF SECTION 13 AND THE CENTERLINE OF MILWAUKEE AVENUE; THENCE WEST ON SAID SOUTH LINE OF THE NORTH 132.0 FEET OF THE SOUTH 1320.0 FEET OF THE NORTH 1/2 OF SECTION 13, A DISTANCE OF 831.35 FEET; THENCE SOUTH ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE LEFT OF THE LAST DESCRIBED COURSE, A DISTANCE OF 460.0 FEET; THENCE EAST ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE LEFT OF THE LAST DESCRIBED COURSE, A DISTANCE OF 581.35 FEET; THENCE NORTH ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE LEFT OF THE LAST DESCRIBED COURSE, A DISTANCE OF 910.0 FEET; THENCE EAST ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE RIGHT OF THE LAST DESCRIBED COURSE TO THE CENTERLINE OF MILWAUKEE AVENUE; THENCE NORTHWESTERLY ALONG SAID CENTERLINE OF MILWAUKEE AVENUE TO THE POINT OF BEGINNING;

(EXCEPT THE SOUTH 299.72 FEET OF THE WEST 581.35 FEET THEREOF;
AND ALSO EXCEPTING THEREFROM THAT PART TAKEN FOR HIGHWAY PURPOSES ACCORDING TO THE CONDEMNATION PROCEEDINGS IN CASE NO. 94L50965, FILED IN THE CIRCUIT COURT OF COOK COUNTY, ILLINOIS)

SAID LAND ALSO DESCRIBED AS FOLLOWS:

THAT PART OF THE SOUTH 1320.00 FEET OF THE NORTH 1/2 OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH 132.0 FEET OF THE SOUTH 1320.0 FEET OF SAID NORTH 1/2 OF SECTION 13 AND THE WEST RIGHT-OF-WAY LINE OF MILWAUKEE AVENUE; THENCE SOUTH 12 DEGREES, 24 MINUTES, 12 SECONDS EAST, A DISTANCE OF 154.07 FEET; THENCE NORTH 89 DEGREES, 12 MINUTES, 42 SECONDS WEST, A DISTANCE OF 218.40 FEET; THENCE SOUTH 00 DEGREES, 47 MINUTES, 18 SECONDS EAST, A DISTANCE OF 210.28 FEET; THENCE NORTH 89 DEGREES, 12 MINUTES, 42 SECONDS WEST, A DISTANCE OF 581.35 FEET; THENCE NORTH 00 DEGREES, 47 MINUTES, 18 SECONDS WEST, A DISTANCE OF 581.35 FEET; THENCE SOUTH 89 DEGREES, 12 MINUTES, 42 SECONDS EAST, A DISTANCE OF 764.59 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

SHEET INDEX

C01.0 COVER SHEET
C02.0 EXISTING CONDITIONS PLAN
C03.0 SITE LAYOUT PLAN
C04.0 STANDARD NOTES AND DETAILS
L01.0 LANDSCAPE PLAN
L02.0 LANDSCAPE DETAILS
L03.0 LANDSCAPE SPECIFICATIONS

Know what's **below.** **Call** before you dig.

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DESIGN FIRM #184005876-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1042 MILWAUKEE AVE
1042 S. MILWAUKEE AVE. WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
COVER SHEET

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/09/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
2026/03/04
REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO.
C01.0

Michael B. Keith
062-066723
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
03/04/2026
EXP. 11/30/2027

V:\2500\ACTIVE\25000706\PLANSET\PRELIMINARY\25000706 SLS COOK PERMIT SET - COVER SHEET 2026-03-04 AMW.DWG



LEGEND

BOUNDARY LINE

EXISTING SETBACK LINE

ZONING SPLIT LINE

EXISTING BUILDING

EXISTING CONDITIONS BASED ON ALTA/ACSM LAND TITLE SURVEY BY JLH LAND SURVEYING INC. 09/21/2009.

LEGAL DESCRIPTION:

THAT PART OF THE SOUTH 1320.00 FEET OF THE NORTH 1/2 OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, BOUNDED AND DESCRIBED AS FOLLOWS:

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SCALE IN FEET

0 40 80 120 200

811 Know what's **below.** **Call** before you dig.

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EXISTING CONDITIONS PLAN

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DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO.
C02.0

NOT FOR CONSTRUCTION

I:\2025\25000706\CAD\PLANSET\PRELIMINARY\25000706-SDS-EXISTING CONDITIONS PLAN 3/4/2026 8:37 AM ALEX WANDEL



LEGEND

- BOUNDARY LINE
- EXISTING SETBACK LINE
- ZONING SPLIT LINE
- UNDERGROUND ELECTRIC LINE
- EXISTING BUILDING

SITE DATA

PIN:	03-13-200-018
JURISDICTION:	VILLAGE OF WHEELING, IL
ZONING DISTRICT:	B-3 (GENERAL COMMERCIAL AND OFFICE DISTRICT) AND I-3 (GENERAL INDUSTRIAL DISTRICT)
CURRENT LAND USE:	STORAGE FACILITY
PARCEL AREA:	± 2.84 ACRES

FEMA FLOOD HAZARD: ZONE X AND ZONE AE PER FIRM MAP #17031C0207J DATED 8/19/2008.

GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
3. LIMITS OF WORK SHALL BE EROSION CONTROL BARRIERS AS INDICATED ON DRAWINGS.
4. ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.
5. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
6. EXISTING TREES AND SHRUBS SHALL NOT BE CLEARED, UNLESS OTHERWISE NOTED.
7. FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

ZONING DISTRICT:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS THAT MAY BE PROMULGATED BY THE COOK COUNTY PLANNING AND DEVELOPMENT DEPARTMENT, SOIL AND WATER CONSERVATION DISTRICT, AND MUNICIPAL AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, SECURING AND COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AS ADMINISTERED BY THE STATE ENVIRONMENTAL PROTECTION AGENCY.

LAYOUT AND MATERIALS NOTES:

1. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN SITE PLAN DIMENSIONS AND BUILDING PLANS BEFORE PROCEEDING WITH ANY PORTION OF SITE WORK WHICH MAY BE AFFECTED SO THAT PROPER ADJUSTMENTS TO THE SITE LAYOUT CAN BE MADE IF NECESSARY.
4. PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

ZONING REQUIREMENTS

ZONING DISTRICT: B-3

REQUIRED SETBACKS FOR GROUND EQUIPMENT:

YARD	REQUIRED	PROPOSED
FRONT / STREETS:	25 FT.	8.4 FT. *
SIDE:	15 FT.	17.9 FT. *

ZONING DISTRICT: I-3

REQUIRED SETBACKS FOR GROUND EQUIPMENT:

YARD	REQUIRED	PROPOSED
REAR:	N/A	N/A
SIDE:	N/A	N/A

*ALL GROUND EQUIPMENT IS LOCATED WITHIN THE SETBACK(S). VARIANCE IS REQUESTED.

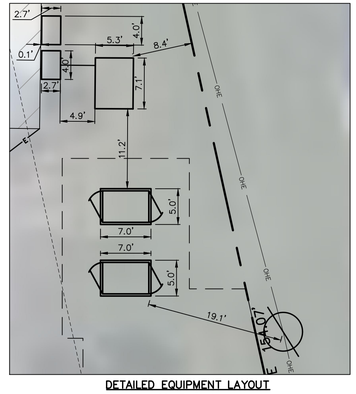
FEMA REGULATORY FLOODWAY NOT ON PROPOSED SITE. SITE IS SPLIT BETWEEN ZONE AE AND ZONE X.

FLOODPLAIN NOTES

1.) FLOODPLAIN ELEVATION ON PROPERTY NEAREST TO THE IMPROVEMENTS IS 636.6 IN NGVD 29 (640.2 NAVD 88).

2.) ANY ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE THE BASE FLOOD ELEVATION (636.6) OR FLOOD PROOFED.

3.) AS-BUILT DRAWINGS WILL BE REQUIRED TO FINALIZE THE FLOODPLAIN PERMIT. THE AS-BUILT DRAWINGS SHOULD INCLUDE LOCATION OF UNDERGROUND CONDUIT AND ELEVATION OF ELECTRICAL EQUIPMENT IN RELATION TO THE BASE FLOOD ELEVATION.



DETAILED EQUIPMENT LAYOUT
SCALE 1"=10'

SCALE IN FEET
0 40 80 120 200

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SECTION 13
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WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE

SOLAR LANDSCAPE LLC

CS IL 1042 MILWAUKEE AVE
1042 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS

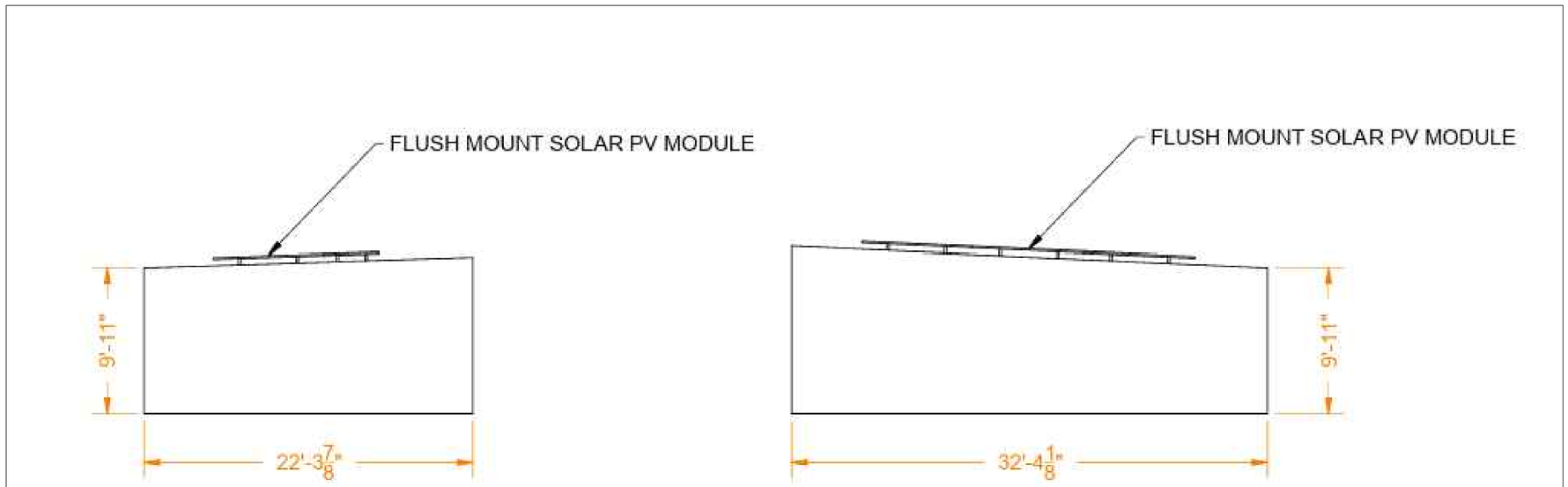
SITE LAYOUT PLAN

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05 REVISIONS PER CLIENT
2025/12/17 REVISIONS PER CLIENT & VILLAGE
2026/03/04 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO.
C03.0



TYPICAL BUILDING SECTION

NOT TO SCALE

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SHEET NO.
C04.0

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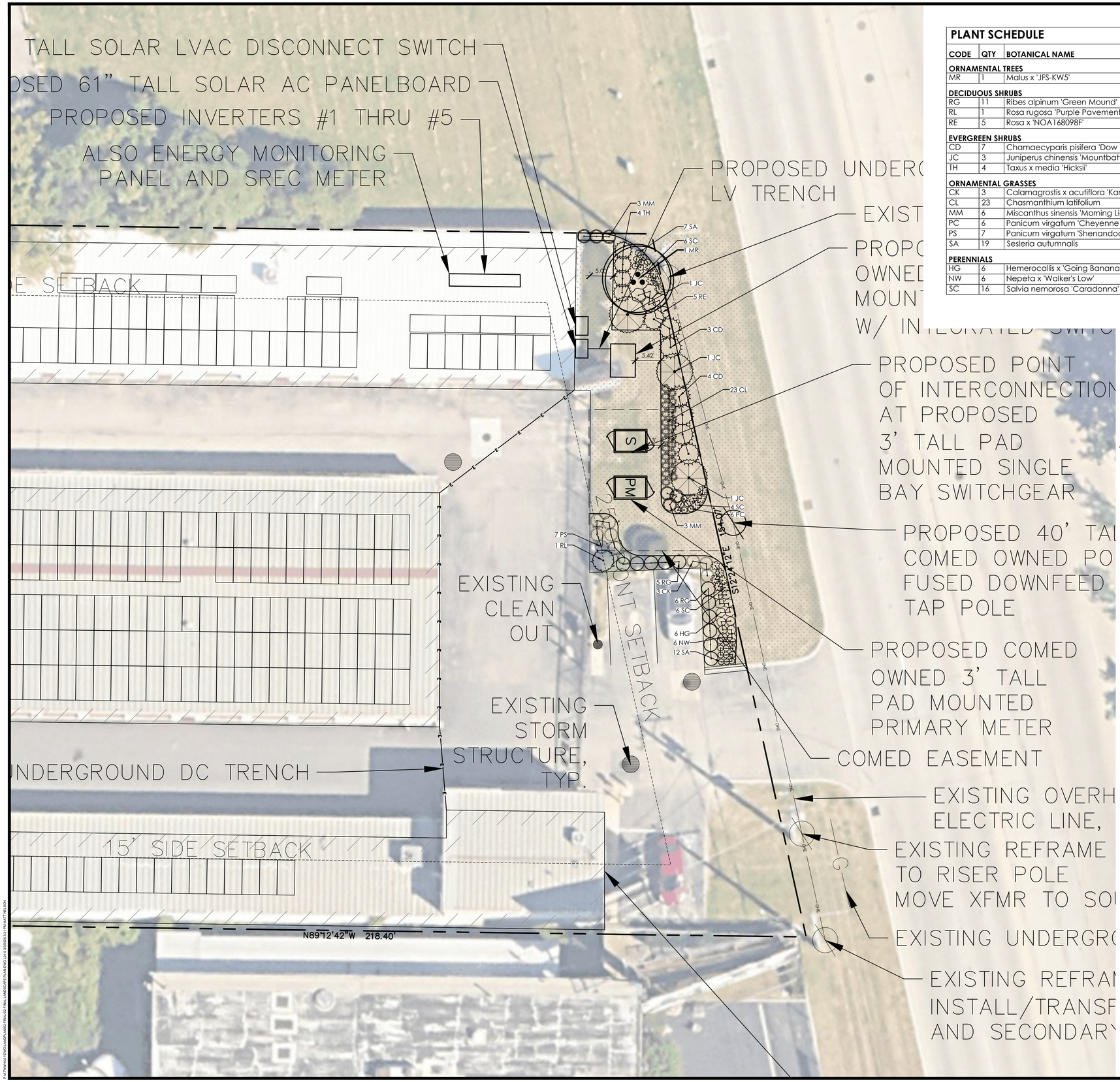

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS
ORNAMENTAL TREES						
MR	1	Malus x 'JFS-KW5'	Royal Raindrops® Crabapple	2" Cal.	B&B	
DECIDUOUS SHRUBS						
RG	11	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	5 gal.	Pot	
RL	1	Rosa rugosa 'Purple Pavement'	Purple Pavement Rose	5 gal.	Pot	
RE	5	Rosa x 'NOA168098F'	Flower Carpet® Pink Supreme Groundcover Rose	3 gal.	Pot	
EVERGREEN SHRUBS						
CD	7	Chamaecyparis pisifera 'Dow Whiting'	Soft Serve® Sawara Cypress	5 gal.	Pot	
JC	3	Juniperus chinensis 'Mountbatten'	Mountbatten Juniper	5` Ht.	B&B	
TH	4	Taxus x media 'Hicksii'	Hicks Anglo-Japanese Yew	4` Ht.	B&B	
ORNAMENTAL GRASSES						
CK	3	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	Pot	
CL	23	Chasmanthium latifolium	Northern Sea Oats	1 gal.	Pot	
MM	6	Miscanthus sinensis 'Morning Light'	Morning Light Eulalia Grass	1 gal.	Pot	
PC	6	Panicum virgatum 'Cheyenne Sky'	Cheyenne Sky Prairie Winds® Switch Grass	1 gal.	Pot	
PS	7	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 gal.	Pot	
SA	19	Sesleria autumnalis	Autumn Moor Grass	1 gal.	Pot	
PERENNIALS						
HG	6	Hemerocallis x 'Going Bananas'	Going Bananas Daylily	1 gal.	Pot	
NW	6	Nepeta x 'Walker's Low'	Walker's Low Catmint	1 gal.	Pot	
SC	16	Salvia nemorosa 'Caradonna'	Cardonna Meadow Sage	1 gal.	Pot	

LICENSED LANDSCAPE ARCHITECT
JAMES MATTHEW NELSON
157-001644
STATE OF ILLINOIS
SEAL Date: 03/02/26

James Matthew Nelson, ASLA, PLA, LEED
Illinois Registered Landscape Architect
157-001644
Expires 08/31/2027

GROUNDCOVER SCHEDULE

	TURF - RESTORE AS NEEDED	2,584 sf

NOTE: ORNAMENTAL GRASSES TO BE CUT BACK IN EARLY SPRING. LEAVE THROUGH WINTER FOR SCREENING BENEFITS.

LEGEND

- BOUNDARY LINE
- EXISTING SETBACK LINE
- ZONING SPLIT LINE
- UNDERGROUND ELECTRIC LINE
- EXISTING BUILDING

SITE DATA

PIN: 03-13-200-018
JURISDICTION: VILLAGE OF WHEELING, IL
ZONING DISTRICT: B-3 (GENERAL COMMERCIAL AND OFFICE DISTRICT) AND I-3 (GENERAL INDUSTRIAL DISTRICT)
CURRENT LAND USE: STORAGE FACILITY
PARCEL AREA: ± 2.84 ACRES

FEMA FLOOD HAZARD: ZONE X AND ZONE AE PER FIRM MAP #17031C0207J DATED 8/19/2008.

ZONING REQUIREMENTS

ZONING DISTRICT: B-3

REQUIRED SETBACKS:

YARD	REQUIRED	PROPOSED
FRONT / STREETS (PANELS):	25 FT.	27.2 FT.
FRONT / STREETS (EQUIPMENT):	25 FT.	8.4 FT. *
SIDE (PANELS):	15 FT.	4.2 FT. **
SIDE (EQUIPMENT):	15 FT.	1.6 FT. *

ZONING DISTRICT: I-3

REQUIRED SETBACKS:

YARD	REQUIRED	PROPOSED
REAR (PANELS):	17 FT.	18.3 FT.
REAR (EQUIPMENT):	N/A	N/A
SIDE (PANELS):	17 FT.	4.2 FT. **
SIDE (EQUIPMENT):	N/A	N/A

*ALL GROUND EQUIPMENT IS LOCATED WITHIN THE SETBACK(S). VARIANCE IS REQUESTED.

**THERE ARE SOME PANELS WITHIN THE SETBACK(S) ACROSS THE SITE. VARIANCE IS REQUESTED. SEE PLANS FOR PANELS WITHIN THE SETBACK(S).

FEMA REGULATORY FLOODWAY NOT ON PROPOSED SITE. SITE IS SPLIT BETWEEN ZONE AE AND ZONE X.

SCALE IN FEET
0 10 20 30 50

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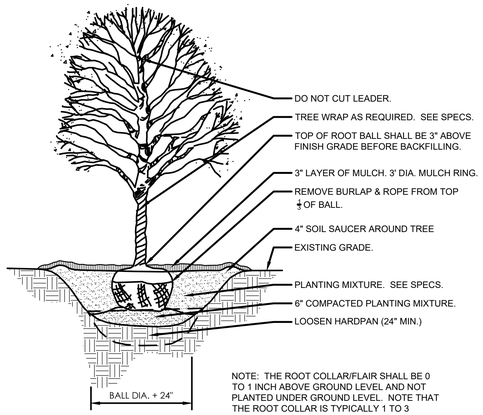
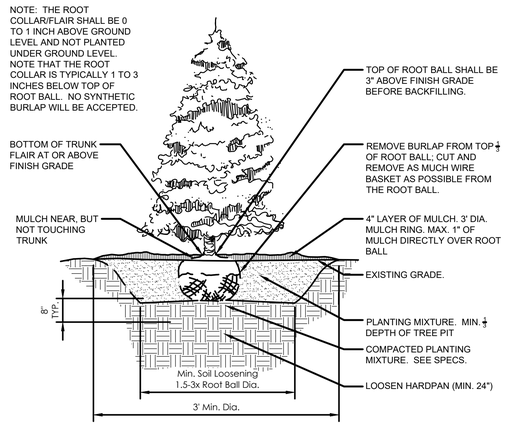
2025/09/05 REVISIONS PER CLIENT
2025/12/12 REVISIONS PER CLIENT & VILLAGE
2026/03/04 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO. L01.0



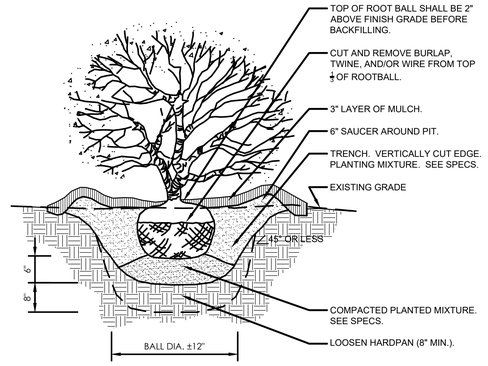
1 DECIDUOUS TREE PLANTING

1/4" = 1'-0" 329343.33-20



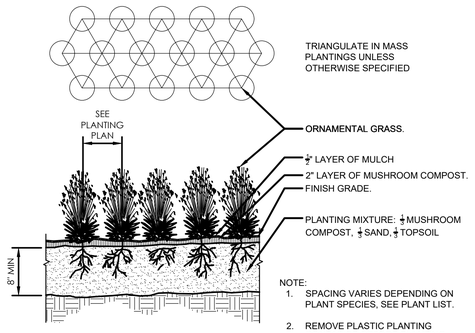
2 CONIFER TREE PLANTING- ANSI A300

1/4" = 1'-0" 329343.23-01



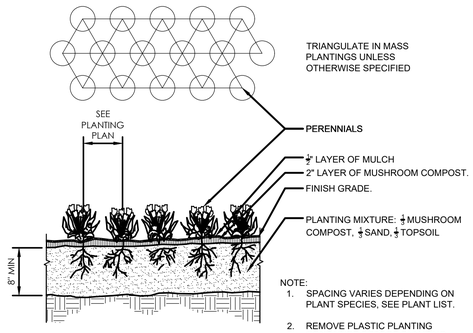
3 SHRUB PLANTING DETAIL

3/4" = 1'-0" 329333.16-05



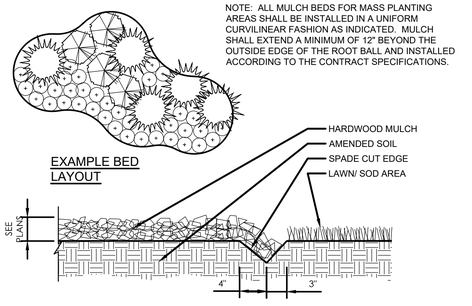
4 ORNAMENTAL GRASS PLANTING

1" = 1'-0" 329313-01



5 PERENNIAL / ANNUAL PLANTING

1" = 1'-0" 329313-02



6 CONTINUOUS MULCH EDGING

1" = 1'-0" 329113.26-01

Know what's below. Call before you dig.
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.
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SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1042 MILWAUKEE AVE
1042 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
LANDSCAPE DETAILS

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05 REVISIONS PER CLIENT
2025/12/12 REVISIONS PER CLIENT & VILLAGE
2026/03/04 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO. L02.0

J:\ATWELL\25000706\CAD\PLANS\2025 FINAL LANDSCAPE PLANS\L02 FINAL LS DETAILS 8.5X11.DWG MATT.WILSON

GENERAL PLANTING SPECIFICATIONS:

PART 1 - GENERAL

1-01 DESCRIPTION:

A. PROVIDE TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS AS SHOWN AND SPECIFIED. THIS WORK INCLUDES:
   1. SPREADING OF TOPSOIL OR SOIL PREPARATION
   2. TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS
   3. PLANTING MIXES
   4. MULCH AND PLANTING ACCESSORIES
   5. FERTILIZER AND HERBICIDE
   6. MAINTENANCE
   7. WARRANTY OF PLANT MATERIAL

B. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND REPORT ANY DISCREPANCIES TO THE OWNER OR HIS/HER REPRESENTATIVE.

1-02 QUALITY ASSURANCE:

A. COMPLY WITH SITE WORK REQUIREMENTS

B. PLANT NAMES INDICATED MUST COMPLY WITH 'STANDARDIZED PLANT NAMES' AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES WHICH ARE NOT LISTED SHOULD CONFORM WITH THOSE GENERALLY ACCEPTED BY THE NURSERY TRADE. STOCK SHOULD BE LEGIBLY TAGGED.

C. ALL PLANT MATERIALS SHALL CONFORM TO THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS), LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON, D.C.

D. ALL PLANT MATERIAL SHALL BE GROWN AND SUPPLIED WITHIN A 50 MILE RADIUS OF THE PROJECT FOR A MINIMUM OF TWO FULL GROWING SEASONS.

E. ADHERE TO SIZING REQUIREMENTS AS LISTED IN THE PLANT LIST AND/OR BID FORM FOR THE PROJECT. A PLANT SHALL BE MEASURED IN ITS NATURAL STANDING POSITION.

F. STOCK THAT IS FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE SHOWN. WITH PERMISSION OF THE LANDSCAPE ARCHITECT, SUBSTITUTION FROM THE SPECIFIED PLANT LIST WILL BE ACCEPTED ONLY WHEN SATISFACTORY EVIDENCE IN WRITING IS SUBMITTED TO THE LANDSCAPE ARCHITECT, SHOWING THAT THE PLANT SPECIFIED IS NOT AVAILABLE. REQUESTS FOR APPROVAL OF SUBSTITUTE PLANT MATERIAL SHALL INCLUDE COMMON AND BOTANICAL NAMES AND SIZE OF SUBSTITUTE MATERIAL. ONLY THOSE SUBSTITUTIONS OF AT LEAST EQUIVALENT SIZE AND CHARACTER TO THAT OF THE SPECIFIED MATERIAL WILL BE APPROVED. STOCK WHICH IS LARGER THAN THAT WHICH IS SPECIFIED IS ACCEPTABLE WITH PERMISSION OF THE LANDSCAPE ARCHITECT, PROVIDING THERE IS NO ADDITIONAL COST AND THAT THE LARGER PLANT MATERIAL WILL NOT BE CUT DOWN IN ORDER TO CONFORM TO THE SIZE INDICATED.

G. ALL SHRUBS SHALL BE DENSE IN FORM. SHRUB LINERS DO NOT MEET THESE SPECIFICATIONS. SHRUBS SPECIFIED BY HEIGHT SHALL HAVE A SPREAD THAT IS EQUAL TO THE HEIGHT MEASUREMENT. SHRUBS WHICH ARE SPECIFIED BY SPREAD SHALL EXHIBIT THE NATURAL GROWTH HABIT OF THE PLANT BY HAVING A GREATER SPREAD THAN HEIGHT.

H. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO SELECT AND TAG ALL PLANT MATERIAL AT THE NURSERY PRIOR TO PLANTING. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO INSPECT PLANT MATERIAL FOR SIZE AND CONDITION OF ROOT SYSTEMS, THE PRESENCE OF INSECTS AND DISEASES, INJURIES AND LATENT DEFECTS (DUE TO CONTRACTOR NEGLIGENCE OR OTHERWISE), AND TO REJECT UNACCEPTABLE PLANT MATERIAL AT ANY TIME DURING PROGRESS OF THE PROJECT.

I. CONTAINER GROWN DECIDUOUS AND/OR EVERGREEN SHRUBS WILL BE ACCEPTABLE IN LIEU OF BALLED AND BURLAPPED SHRUBS SUBJECT TO SPECIFIED LIMITATIONS FOR CONTAINER GROWN STOCK. SIZE OF CONTAINER GROWN MATERIAL MUST CONFORM TO SIZE/HEIGHT REQUIREMENTS OF PLANT LIST.

1-03 DELIVERY, STORAGE & HANDLING:

A. FERTILIZER SHALL BE DELIVERED IN ORIGINAL, UNOPENED AND UNDAMAGED PACKAGING. CONTAINERS SHALL DISPLAY WEIGHT, ANALYSIS AND MANUFACTURER'S NAME. STORE FERTILIZER IN A MANNER THAT WILL PREVENT WETTING AND DETERIORATION.

B. TAKE ALL PRECAUTIONS CUSTOMARY CONCERNING PROPER TRADE PRACTICE IN PREPARING PLANTS FOR TRANSPORT. PLANTS SHALL BE DUG, PACKED AND TRANSPORTED WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE LANDSCAPE ARCHITECT . ALL PLANTS MUST BE PROTECTED FROM DRYING OUT. IF PLANT MATERIAL CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, SAID MATERIAL SHOULD BE PROPERLY PROTECTED IN A MANNER THAT IS ACCEPTABLE TO THE LANDSCAPE ARCHITECT . HEELED-IN PLANTS MUST BE WATERED DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD STRIP BARK OR BREAK OR SHEAR BRANCHES.

C. PLANT MATERIAL TRANSPORTED ON OPEN VEHICLES SHOULD BE COVERED WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.

D. DRY, LOOSE TOPSOIL SHALL BE PROVIDED FOR PLANTING BED MIXES. MUDDY OR FROZEN TOPSOIL IS UNACCEPTABLE AS WORKING WITH MEDIUM IN THIS CONDITION WILL DESTROY ITS STRUCTURE, MAKING ROOT DEVELOPMENT MORE DIFFICULT.

1-04 PROJECT CONDITIONS:

A. NOTIFY LANDSCAPE ARCHITECT AT LEAST SEVEN (7) WORKING DAYS PRIOR TO INSTALLATION OF PLANT MATERIAL.

B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING ABOVE AND BELOW GROUND UTILITIES. UTILITIES CAN BE LOCATED AND MARKED (IN ILLINOIS) BY CALLING J.U.L.I.E. AT (800)892-0123.

C. THE CONTRACTOR SHALL PROVIDE, AT HIS/HER OWN EXPENSE, PROTECTION AGAINST TRESPASSING AND DAMAGE TO SEEDED AREAS, PLANTED AREAS, AND OTHER CONSTRUCTION AREAS UNTIL THE PRELIMINARY ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE BARRICADES, TEMPORARY FENCING, SIGNS, AND WRITTEN WARNING OR POLICING AS MAY BE REQUIRED TO PROTECT SUCH AREAS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE OWNER AFTER SUCH WARNING HAS BEEN ISSUED.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CROWNS, TRUNKS AND ROOTS OF EXISTING TREES, PLUS SHRUBS, LAWNS, PAVED AREAS AND OTHER LANDSCAPED AREAS THAT ARE TO REMAIN INTACT. EXISTING TREES, WHICH MAY BE SUBJECT TO CONSTRUCTION DAMAGE, SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED. THE OWNER DESIRES TO PRESERVE THOSE TREES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION EXCEPT THOSE SPECIFICALLY INDICATED TO BE REMOVED ON THE DRAWINGS. THE CONTRACTOR SHALL ERECT PROTECTIVE TREE FENCING AND TREE ARMOR AT LOCATIONS INDICATED ON THE DRAWINGS AND AROUND ALL TREES ON SITE WHICH ARE TO BE PRESERVED. PROTECTIVE FENCING SHALL BE ERECTED BETWEEN THE LIMITS OF CONSTRUCTION AND ANY TREE PRESERVATION AREAS SHOWN ON THE DRAWINGS.

E. A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF SIZES, QUANTITIES AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS AND ON THE BID FORM. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.

1-05 PRELIMINARY ACCEPTANCE:

A. ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS/HER REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO: MOWING AND EDGING TURF, PULLING WEEDS, WATERING TURF AND PLANT MATERIAL AND ANNUAL FLOWER MAINTENANCE.

1-06 WARRANTY:

A. ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE WARRANTEED FOR ONE (1) YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS/HER REPRESENTATIVE. PLANT MATERIALS WILL BE WARRANTEED AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. THE WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

PART 2 - PRODUCTS

2-01 PLANT MATERIALS:

A. PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. ONLY SOUND, HEALTHY, VIGOROUS PLANTS WHICH ARE FREE FROM SUNSCALD INJURIES, DISFIGURING KNOTS, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION SHALL BE PROVIDED. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN PATCHES.
   1. BALLED AND BURLAPPED PLANTS SHALL HAVE A FIRM NATURAL BALL OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS A ROOT SYSTEM NECESSARY FOR A FULL RECOVERY OF THE PLANT. ROOT BALL SIZES SHALL COMPLY WITH THE LATEST EDITION OF THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS). ROOT BALLS THAT ARE CRACKED OR MUSHROOMED ARE UNACCEPTABLE.
   2. CONTAINER GROWN STOCK SHOULD BE GROWN FOR AN AMOUNT OF TIME THAT IS OF SUFFICIENT LENGTH FOR THE ROOT SYSTEM TO HAVE DEVELOPED ENOUGH TO HOLD ITS SOIL TOGEHTER, FIRM AND WHOLE. PLANTS WILL NOT BE LOOSE IN THEIR CONTAINERS, NOR SHALL THEY BE POT-BOUND AND ALL CONTAINER GROWN STOCK WILL COMPLY WITH THE SIZES STATED ON THE PLANT LIST.
   3. NO EVIDENCE OF WOUNDS OR PRUNING CUTS SHALL BE ALLOWED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
   4. EVERGREEN TREES SHALL BE BRANCHED TO THE GROUND. THE HEIGHT OF EVERGREEN TREES ARE DETERMINED BY MEASURING FROM THE GROUND TO THE FIRST LATERAL BRANCH CLOSEST TO THE TOP. HEIGHT AND/OR WIDTH OF OTHER TREES ARE MEASURED BY THE MASS OF THE PLANT NOT THE VERY TIP OF THE BRANCHES.
   5. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND/OR HEIGHT INDICATED IN THE PLANT LIST. THE HEIGHT MEASUREMENT SHALL BE TAKEN FROM GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT, NOT THE LONGEST BRANCH. SINGLE STEM OR THIN PLANTS WILL NOT BE ACCEPTED. SIDE BRANCHES SHALL BE FLUSHED WITH GROWTH AND HAVE GOOD FORM TO THE GROUND. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES OR OTHER ROOT OR BRANCH INJURIES.

2-02 ACCESSORIES:

A. TOPSOIL:
   1. TOPSOIL SHALL BE FERTILE, NATURAL TOPSOIL OF A LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL. TOPSOIL SHALL BE REASONABLY FREE FROM CLAY, LUMPS, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIALS WITH A PH BETWEEN 6.5 TO 7.0.

B. TOPSOIL FOR SEED AREAS SHALL BE A MINIMUM OF 6".

C. SOIL AMENDMENTS SHALL BE AS FOLLOWS:
   1. FOR TREES AND SHRUBS THE PLANT PIT WILL BE BACKFILLED WITH PULVERIZED BLACK DIRT.
   2. FOR PERENNIALS AND ORNAMENTAL GRASSES THE SOIL MIXTURE WILL BE AS FOLLOWS: CM-63 GENERAL PURPOSE PEAT BASED MIX AS SUPPLIED BY MIDWEST TRADING. TOP BEDS WITH 8" OF CM-63 AND TILL INTO EXISTING BEDS TO A DEPTH OF 8". SOIL MIXTURES ARE AVAILABLE FROM MIDWEST TRADING. MIDWEST TRADING, ST. CHARLES, IL 60174 (630) 365-1990

D. FERTILIZER:
   1. FOR TREES AND SHRUBS USE: 14-4-6 BRIQUETTES 17 G OR EQUIVALENT AVAILABLE FROM ARTHUR CLESEN, INC. FOLLOW MANUFACTURER'S RECOMMENDATION FOR APPLICATION. ARTHUR CLESEN, INC. 543 DIENS DRIVE, WHEELING, IL 60090 (847)537-2177
   2. FOR TURF AREAS USE 6-24-16 CLESEN FAIRWAY WITH MICRONUTRIENTS WITH MINOR ELEMENTS 3.0 % S, .02% B, .05% CU, 1.0% FE, .0006% MO, .10% MN AVAILABLE FROM ARTHUR CLESEN OR APPROVED EQUAL.

E. HERBICIDE:
   1. ROUND-UP OR APPROVED EQUAL

F. MULCH:
   1. BARK MULCH SHALL BE FINELY SHREDDED HARDWOOD BARK WHICH HAS BEEN SCREENED AND IS FREE OF ANY GREEN FOLIAGE, TWIGS, ROCKS, SAWDUST, WOOD SHAVINGS, GROWTH OR GERMINATION INHIBITING INGREDIENTS, OR OTHER FOREIGN MATERIALS. BARK MULCH IS AVAILABLE FROM MIDWEST TRADING.
   2. MUSHROOM COMPOST AS AVAILABLE FROM MIDWEST TRADING.

G. WATER:
   1. WATER SERVICE WILL BE AVAILABLE ON THE SITE, WITH THE COST OF WATER BEING PAID BY THE OWNER. TRANSPORTING OF THE WATER FROM THE SOURCE TO THE WORK AREAS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ALL NECESSARY HOSE, PIPING, TANK TRUCK, ETC. SHALL BE SUPPLIED BY THE LANDSCAPE CONTRACTOR.

H. GUYING:
   1. STAKES: 5/8" X 40" STEEL EYE ANCHOR WITH 4" HELIX
   2. CABLE:
      a. TREES UNDER 5": FLEXIBLE 1/8" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL
      b. TREES 5" AND OVER: FLEXIBLE 3/16" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL.
   3. TURNBUCKLES: 5/16", EYE AND EYE, WITH 4" TAKEUP.
   4. HOSE: NEW TWO-PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D.

I. TREE WRAP: BURLAP TREE WRAP 4" WIDE.

J. TWINE: SOFT NURSERY JUTE.

PART 3 - INSTALLATION OF PLANT MATERIAL

3-01 FIELD VERIFICATION:

A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS OF INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3-02 PREPARATION:

A. ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF 'HORTICULTURE STANDARDS OF NURSERYMEN, INC.' AND AS DETAILED ON THESE DRAWINGS.

B. PLANTING SHALL BE PERFORMED BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.

C. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED CLEARLY.

D. APPLY ROUND-UP OR APPROVED EQUIVALENT TO KILL ANY EXISTING VEGETATION IN ALL AREAS TO BE PLANTED. CONFIRM LENGTH OF WAITING PERIOD BETWEEN CHEMICAL APPLICATION AND PLANT INSTALLATION WITH MANUFACTURER. DO NOT BEGIN PLANTING OPERATIONS UNTIL PRESCRIBED POST-APPLICATION WAITING PERIOD HAS ELAPSED. TAKE EXTREME CARE TO AVOID CHEMICAL DRIFT TO ADJOINING PROPERTIES OF LANDSCAPE PLANTINGS.

E. PRIOR TO ALL PLANTING, ROTOTILL ALL AREAS TO BE LANDSCAPED TO PREPARE FOR PLANT INSTALLATION TO A MINIMUM DEPTH OF 12". ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAINTAIN LINES, LEVELS, PROFILES AND CONTOUR. CHANGES IN GRADE ARE TO BE GRADUAL. BLEND SLOPES INTO LEVEL AREAS. REMOVE ALL DEBRIS, WEEDS AND UNDESIRABLE PLANTS AND THEIR ROOTS FROM AREAS TO BE PLANTED. REMOVE ALL CONCRETE SLAG LARGER THAN 2" IN DIAMETER.

F. TOPSOIL SHALL BE SPREAD OVER THE SITE AT A MINIMUM DEPTH OF 6". FOR THOSE AREAS WHICH ARE INDICATED AS PRAIRIE OR NATURAL AREAS ON THE DRAWINGS, A TOPSOIL DEPTH OF 18" IS RECOMMENDED WHERE POSSIBLE.

G. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PREPARE ALL SEEDED AREAS BY DISKING AND RAKING PRIOR TO PLANTING SEED. SOIL SHALL BE LOOSENED AND SCARIFIED TO A MINIMUM DEPTH OF 6". FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".

H. LOCATE ALL PLANT MATERIAL AS INDICATED OR AS APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT. IF OBSTRUCTIONS ARE ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS, THEN DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED.

I. PLANTING HOLES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANTING DETAILS. HOLES SHALL BE HAND DUG OR MACHINE DUG. GREAT CARE WILL BE TAKEN TO NOT EXCAVATE THE HOLE DEEPER THAN THE ROOT BALL AND THE DIAMETER SHALL BE A MINIMUM OF TWO TIMES THE ROOT BALL WIDTH. REMOVE ANY MATERIALS ENCOUNTERED IN EXCAVATION THAT MAY BE INJURIOUS TO PLANT GROWTH, INCLUDING STONES LARGER THAN 2" IN DIAMETER OR OTHER DEBRIS. SOIL TO BE USED AS BACKFILL SHOULD BE PULVERIZED.

J. PROVIDE PRE-MIXED PLANTING MIXTURE FOR USE AROUND ROOT SYSTEMS AND ROOT BALLS OF THE PLANTS. THE MIXTURES ARE OUTLINED IN SECTION B OF PART 2-02.

K. PRIOR TO PLANTING, PROVIDE ADDITIONAL TOPSOIL TO ALL PLANTING BEDS TO BRING THE FINISH GRADE OF THE BED TO 2" ABOVE LAWN GRADE AND TO FINISH GRADE OF ADJACENT HARD SURFACE GRADES.

L. ADD 2" THICKNESS OF MUSHROOM COMPOST TO ALL ANNUAL, PERENNIAL AND GROUNDCOVER BEDS. FINISH GRADE BED AND INSTALL PLANTS.

3-03 PLANTING PROCEDURES:

A. SET PLANT MATERIAL IN THE PLANTING HOLE TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT AND PLUMB. SET PLANT MATERIAL 2" ABOVE THE ADJACENT FINISH GRADE. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL. REMOVE TREATED BURLAP (GREEN). CUT AND REMOVE OR CUT AND FOLD DOWN UPPER HALF OF WIRE BASKET, DEPENDENT UPON TREE SIZE. BACKFILL HOLE BY FIRMLY TAMPING SOIL TO AVOID ANY AIR POCKETS OR VOIDS.

B. SET BALLED AND BURLAPPED PLANTS IN THE PLANTING HOLE AND COMPACT 8" OF SOIL AROUND THE BASE OF THE BALL. BACKFILL REMAINING SPACE WITH PLANTING MIXTURE. WATER PLANTS IMMEDIATELY AFTER PLANTING TO ELIMINATE ALL VOIDS AND THOROUGHLY SOAK THE PLANT ROOT BALL.

C. SPACE GROUNDCOVER PLANTS ACCORDING TO DIMENSIONS GIVEN ON THE PLANS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED NUMBER OF PLANTS. PLANT TO WITHIN 18" OF THE TRUNKS OF TREES AND SHRUBS OR AT THE EDGE OF THE PLANT BALL, WHICHEVER IS CLOSEST. PLANT TO WITHIN 12" OF EDGE OF BED.

D. MULCHING:
   1. INSTALL 4" DEPTH OF MULCH AROUND ALL TREE AND SHRUB BEDS AS INDICATED ON DRAWINGS OR PLANTING DETAILS. MULCH SHRUB PLANTING AREAS AS CONTINUOUS BEDS. DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNK; FORM MULCH TO CREATE AN INVERTED CONE AROUND TRUNK.
   2. MULCH PERENNIAL, GROUNDCOVER AND ANNUAL PLANTING BEDS WITH 2" MUSHROOM COMPOST. WATER MULCHED AREAS THOROUGHLY AFTER PLACING MULCH.

E. TREE WRAPPING IS NOT REQUIRED, UNLESS THE CONTRACTOR FEELS IT IS NECESSARY DUE TO CHARACTERISTICS OF A PARTICULAR SPECIES OR PAST EXPERIENCE WITH THE SPECIES. THE LANDSCAPE ARCHITECT WILL BE NOTIFIED AS TO WHICH TREES ARE TO BE WRAPPED AND SHALL INSPECT THE TRUNK(S) BEFORE WRAPPING. TREE WRAP WILL NOT BE USED TO COVER DAMAGE OR DEFECTS. WHEN WRAPPING IS DONE, TRUNKS WILL BE WRAPPED SPIRALLY WITH APPROVED TREE WRAPPING TAPE THAT IS NOT LESS THAN 4" WIDE, AND SECURELY TIED WITH SUITABLE CORD AT THE TOP, BOTTOM AND 2" INTERVALS ALONG THE TRUNK. WRAP FROM GROUND TO THE HEIGHT OF THE FIRST BRANCH.

F. STAKING AND GUYING OF TREES IS OPTIONAL. IF THE CONTRACTOR CHOOSES TO STAKE ALL OR PART OF THE TREES, HE/SHE SHALL USE THE METHOD SPECIFIED IN THE PLANTING DETAILS. ONE (1) STAKE IS TO BE USED ON TREES OF 1" CALIPER AND UNDER, OR 4' HEIGHT AND UNDER. TWO (2) STAKES ARE TO BE USED ON TREES OF 1" TO 2 3/4" CALIPER. GUY TREES OF 3" CALIPER OR LARGER AT THREE (3) PER TREE. THE ROOT BALL WILL NOT BE PIERCED WITH A STAKE. STAKES ARE TO BE DRIVEN AT LEAST EIGHTEEN (18) INCHES INTO SUBSOIL BELOW THE PLANTING HOLE. STAKES AND WIRE ATTACHMENTS SHALL BE REMOVED AFTER THREE MONTHS FOR SPRING PLANTED MATERIAL AND BY THE FOLLOWING MAY FOR FALL PLANTED STOCK BY THE CONTRACTOR. STAKING AND GUYING SHOULD BE DONE IMMEDIATELY AFTER LAWN SEEDING OR SODDING OPERATIONS.

G. SEEDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE TREATED AS FOLLOWS:
   1. TOPSOIL SHALL BE SPREAD OVER ALL AREAS TO BE SEEDED TO A MINIMUM DEPTH OF 6" WHEN COMPACTED (TO BE PERFORMED BY OTHERS).
   2. SEED MIXTURE AND APPLICATION RATE - USE FIELD OF DREAMS GAMEDAY SEED MIX (70% BLUEGRASS / 30% RYEGRASS) AS SUPPLIED BY NATIONAL SEED. APPLY AT A RATE OF 3-4 LBS./1000 S.F.
   3. APPLY FERTILIZERS AND CONDITIONERS AT THE RATE SPECIFIED PER SOIL TEST FINDINGS. IN LIEU OF SOIL TEST RESULTS, APPLY TWO (2) TONS OF GROUND AGRICULTURAL LIMESTONE AND 1000 LBS. 10-10-10 OR EQUIVALENT ANALYSIS FERTILIZER PER ACRE. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE OF AN ORGANIC ORIGIN.
   4. SOIL PREPARATION AREAS WHERE VEHICULAR TRAFFIC HAS COMPACTED THE SOIL SHALL BE LOOSENED/SCARIFIED TO A MINIMUM DEPTH OF 6" BEFORE FERTILIZING AND SEEDING. FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".
   5. WATERING SEEDED AREAS SHALL BE DONE TO ENSURE PROPER GERMINATION. ONCE SEEDS HAVE GERMINATED, WATERING MAY BE DECREASED BUT THE SEEDLINGS MUST NEVER BE ALLOWED TO DRY OUT COMPLETELY. FREQUENT WATERING SHOULD BE CONTINUED APPROXIMATELY FOUR (4) WEEKS AFTER GERMINATION OR UNTIL GRASS HAS BECOME SUFFICIENTLY ESTABLISHED TO WARRANT WATERING ON AN 'AS NEEDED' BASIS.
   6. TURF IS BEING ESTABLISHED ON A VARIETY OF SLOPE CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT WHATEVER PROCEDURES HE/SHE DEEMS NECESSARY TO ESTABLISH THE TURF AS PART OF HIS/HER WORK. SEEDED AREAS WILL BE ACCEPTED WHEN ALL AREAS SHOW A UNIFORM STAND OF THE SPECIFIED GRASS IN HEALTHY CONDITION AND AT LEAST 90 DAYS HAVE ELAPSED SINCE THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL SUBMIT WITH HIS/HER BID A DESCRIPTION OF THE METHODS AND PROCEDURES HE/SHE INTENDS TO USE.

H. EROSION CONTROL BLANKET
   1. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION IN ALL AREAS SHOWN ON THE PLAN.
   2. INSTALL S-75 EROSION CONTROL BLANKET AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
   3. BLANKET SHOULD BE PREMARKED WITH STAPLE PATTERN.
   4. STAPLES SHOULD BE 8" WIRE STAPLES, APPLIED AT TWO (2) PER SQUARE YARD MINIMUM.
   5. SUITABLE EROSION CONTROL PRACTICES SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND ALL APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCES AND THE PLANS.

I. SODDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE COMPLETED AS FOLLOWS:
   1. RAKE SOIL SURFACE TO RECEIVE SOD TO COMPLETELY REMOVE ANY SOIL CRUST NO MORE THAN ONE DAY PRIOR TO LAYING SOD.
   2. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWNS. DO NOT CREATE A MUDDY SOIL CONDITION.
   3. SOD SHALL BE LAID WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT PLANT DORMANT SOD OR IF THE GROUND IS FROZEN.
   4. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS; DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK FROM BOARDS TO AVOID DAMAGE TO SUBGRADE OR SOD. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING OF ADJACENT SOD.
   5. PLACE TOP ELEVATION OF SOD 1/2 INCH BELOW ADJOINING EDGING OR PAVING.
   6. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
   7. AFTER SOD AND SOIL HAVE DRIED, ROLL SEEDED AREAS TO ENSURE A GOOD BOND BETWEEN THE SOD AND SOIL, AND TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES.
   8. SODDED SLOPES 3:1 OR GREATER SHALL BE STAKED TO PREVENT EROSION AND WASHOUT.
   9. WARRANTY SODDING FOR A PERIOD OF ONE (1) YEAR FROM THE END OF THE 90 DAY MAINTENANCE PERIOD. IF SOD FAILS OR LACKS VIGOR AND FULL GROWTH AS DETERMINED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR WILL REPEAT SITE PREPARATION OPERATIONS AND RE-SOD AFFECTED AREAS AT THE CONTRACTOR'S EXPENSE.
   10. NOTE: SOD SHALL BE A PREMIUM KENTUCKY BLUEGRASS BLEND, AND IS REQUIRED IN ALL AREAS INDICATED ON THE PLANS AS WELL AS AREAS WHICH HAVE BEEN AFFECTED BY CONSTRUCTION. SOD CAN BE PLACED AS LONG AS WATER IS AVAILABLE AND THE GROUND SURFACE CAN BE PROPERLY PREPARED. SOD SHALL NOT BE LAID ON FROZEN OR SNOW-COVERED GROUND. SOD SHALL BE STRONGLY ROOTED, NOT LESS THAN TWO (2) YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. SOD SHOULD BE MACHINE CUT TO PAD THICKNESS OF 3/4" (PLUS OR MINUS 1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT). PROVIDE SOD OF UNIFORM PAD SIZES WITH MAXIMUM 5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTABLE. SOD PADS INCAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10% OF PAD WILL NOT BE ACCEPTED.

J. TIMING OF PLANT MATERIAL AND SEEDING OPERATIONS:
   1. SEEDING OF SPECIFIED AREAS SHALL OCCUR WHEN THE SOIL TEMPERATURE IS ABOVE 55° F. NO SEED SHALL BE SOWN DURING PERIODS OF HIGH WINDS, OR WHEN THE GROUND IS NOT IN PROPER CONDITION FOR SEEDING (SEE SECTION 3-02 (G)). SEEDING OPERATIONS FOR THE SPECIFIED MIXES SHALL OCCUR IN THE SPRING TIME FRAME OF APRIL 15 THROUGH JUNE 30 AND IN THE SUMMER TIME FRAME OF AUGUST 15 THROUGH DECEMBER 1. THE MIXES CONTAINING BLUEGRASS AND FESCUE SEED MUST HAVE SIX WEEKS TO HARDEN OFF FOR WINTER SURVIVAL.
   2. SOD SHALL BE INSTALLED WHEN THE GROUND IS NOT FROZEN OR SNOW COVERED AND TEMPERATURES ARE LESS THAN 80° F. IT SHALL NOT BE PLACED DURING A PERIOD OF EXTENDED DROUGHT.
   3. HERBACEOUS ORNAMENTAL PLANTS SHALL BE PLANTED BETWEEN MAY 1 AND JUNE 15 OR BETWEEN AUGUST 15 AND DECEMBER 1.
   4. SPRING PLANTING OF WOODY ORNAMENTAL PLANTS SHALL BE PERFORMED FROM THE TIME THE SOIL CAN BE EASILY WORKED UNTIL JUNE 1, EXCEPT THAT EVERGREEN PLANTING SHALL END ON MAY 15. OAK, HAWTHORN AND RED MAPLE SPECIES WILL ONLY BE PLANTED DURING THIS SPRING PLANTING PERIOD. FALL PLANTING WILL BEGIN AUGUST 15 AND WILL CONTINUE UNTIL THE GROUND CANNOT BE WORKED SATISFACTORILY, EXCEPT THAT EVERGREE

PANEL MARKS: **1200A**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	1200A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	65 KAIC SC FULLY RATED
MATERIAL:	ALUMINUM BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR.	Bottom
TYPE:	Lugs
AMPS/SENSOR:	1200A/-
CATALOG NO.:	LGML260A
POLES:	3
LUGS:	Main Lug (4) #2-500 mcm, No Feed Through

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
16	12

OPTIONS INCLUDED

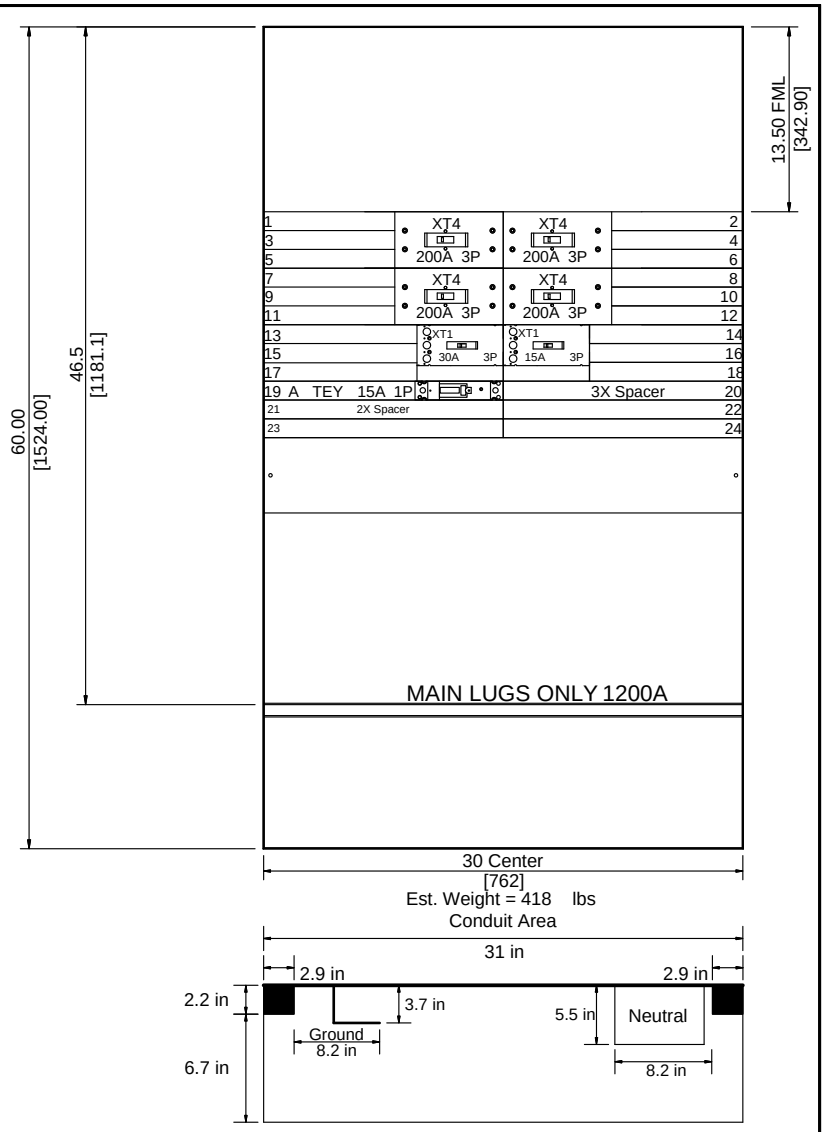
QTY	DESCRIPTION
1	Aluminum Bus Heat Rated
1	47 Ckt bonded grd

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER6030R	Enclosure
1	GC30C16BLA	Gutter Covers
1	FT30S00135	Front 1 of 2
1	FT30S00260	Front 2 of 2
1	BP30C	WirePost

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG47AL	Ground
1	IN1612BL3H1	Interior Bus Stack
1	NL12I0NSTNDAL	Neutral
6	LGML260A	MLO and/or FTL Kit
0	LGML45	Main Code - Not a Catalog Number
1	IF1630C	Interior Frame
1	IL30C	Lifting Kits
1	SR02BB	2X Blank only
1	SR03BB	3X Blank only
2	SR1XBR	1 XT1 Mtg Kit, Narrow



PANEL INFORMATION	
INTERNAL DIMENSIONS	60"X32"X11"
NOTES	
EXTERNAL DIMENSIONS	61"X33.5"X16.7"

1. FML - FRAME MOUNTING LOCATION.
2. DRAWING NOT TO SCALE.
3. DIMENSIONS ARE IN INCHES[mm].

NEUTRAL CAN BE MOUNTED IN ANY CORNER

FACTORY AUTO-LAYOUT. THE LAYOUT IS NOT SPECIFIED, THE FACTORY MAY CHANGE THE LOCATION OF SOME OF THE BREAKERS. NEUTRAL ARE PRESSURE LUGS.

PROJECT NAME : Q- Panelboard Specs Aug 2024 - Solar Landscape		PANEL ID: neXT Panel Assembled Interior	PRODUCT NAME: *ReliaGear neXT PANELBOARD*	DRAWING NO:	
CUSTOMER: SUNBELT SOLOMON		CREATED BY: Basden, Joseph		ITEM NO:	15
		DATE: 08/14/2024 15:15:21		MARKS:	1200A
		REVISION NO.		QUOTE NO:	UM4-00002453
				SHEET:	1

8/14/2024 3:32:09 PM SAP ORDER:

neXT Device Information

X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
1	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
2	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
7	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
8	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
13	XT1HU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1HU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYALEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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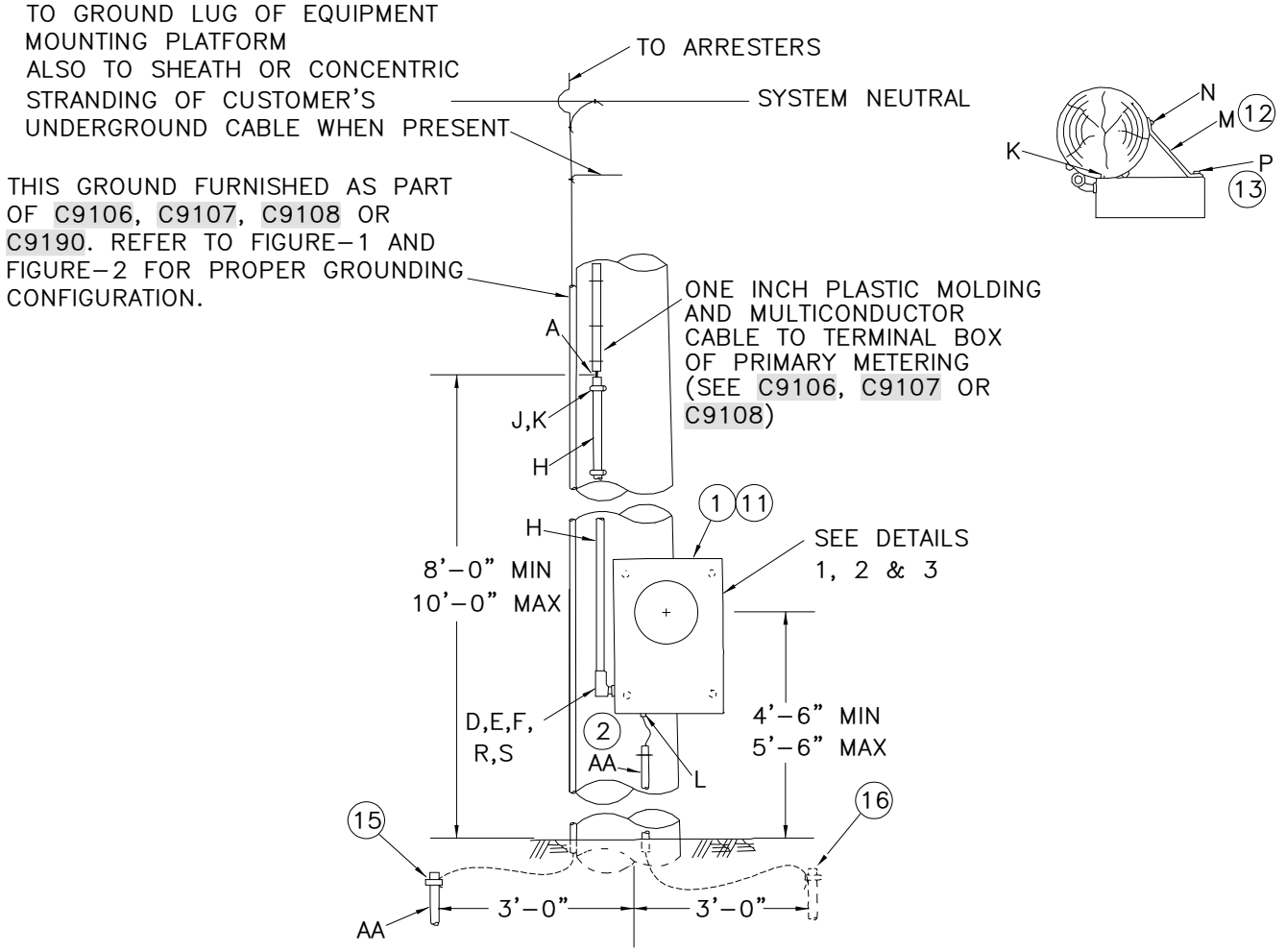
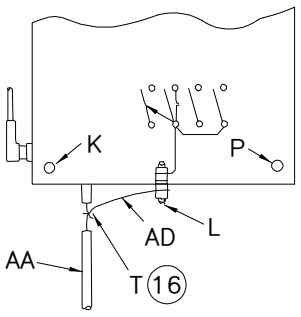
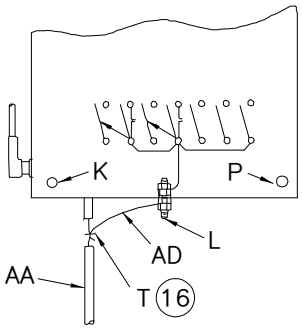


C9105.1_

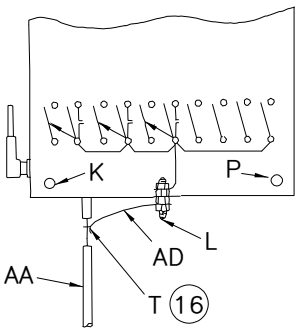
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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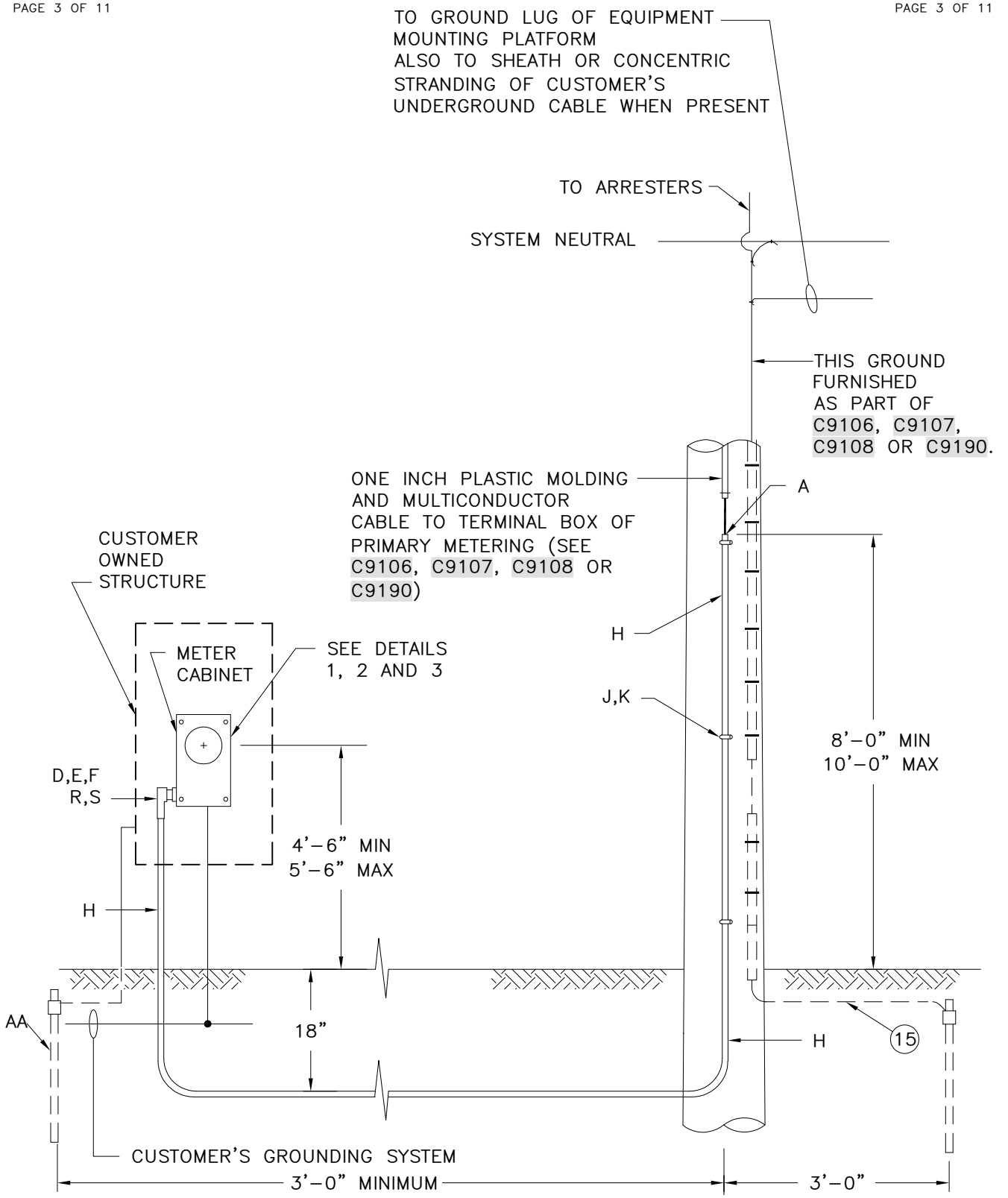

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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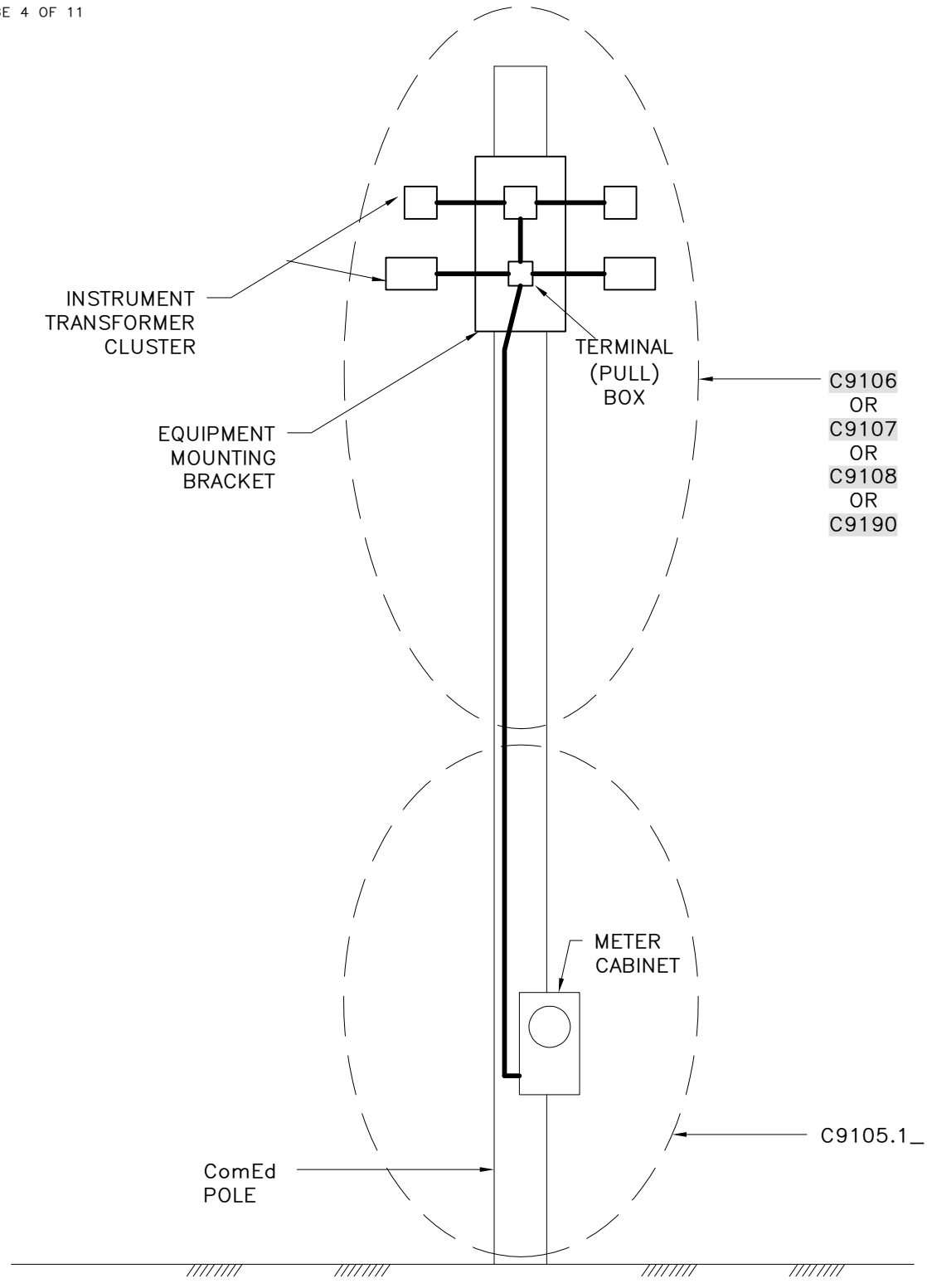

DETAIL-4
METER ON PRIMARY METERING POLE

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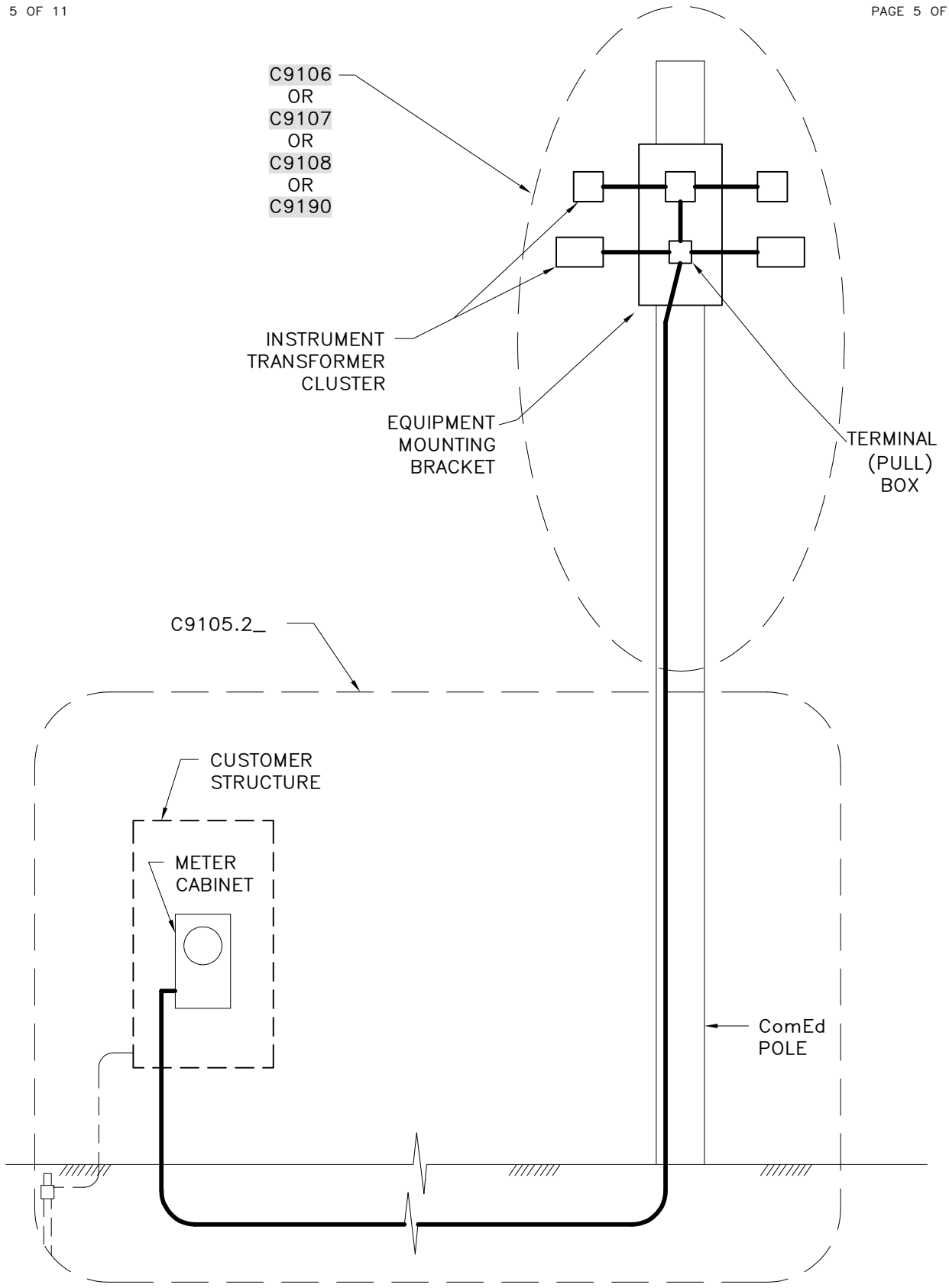

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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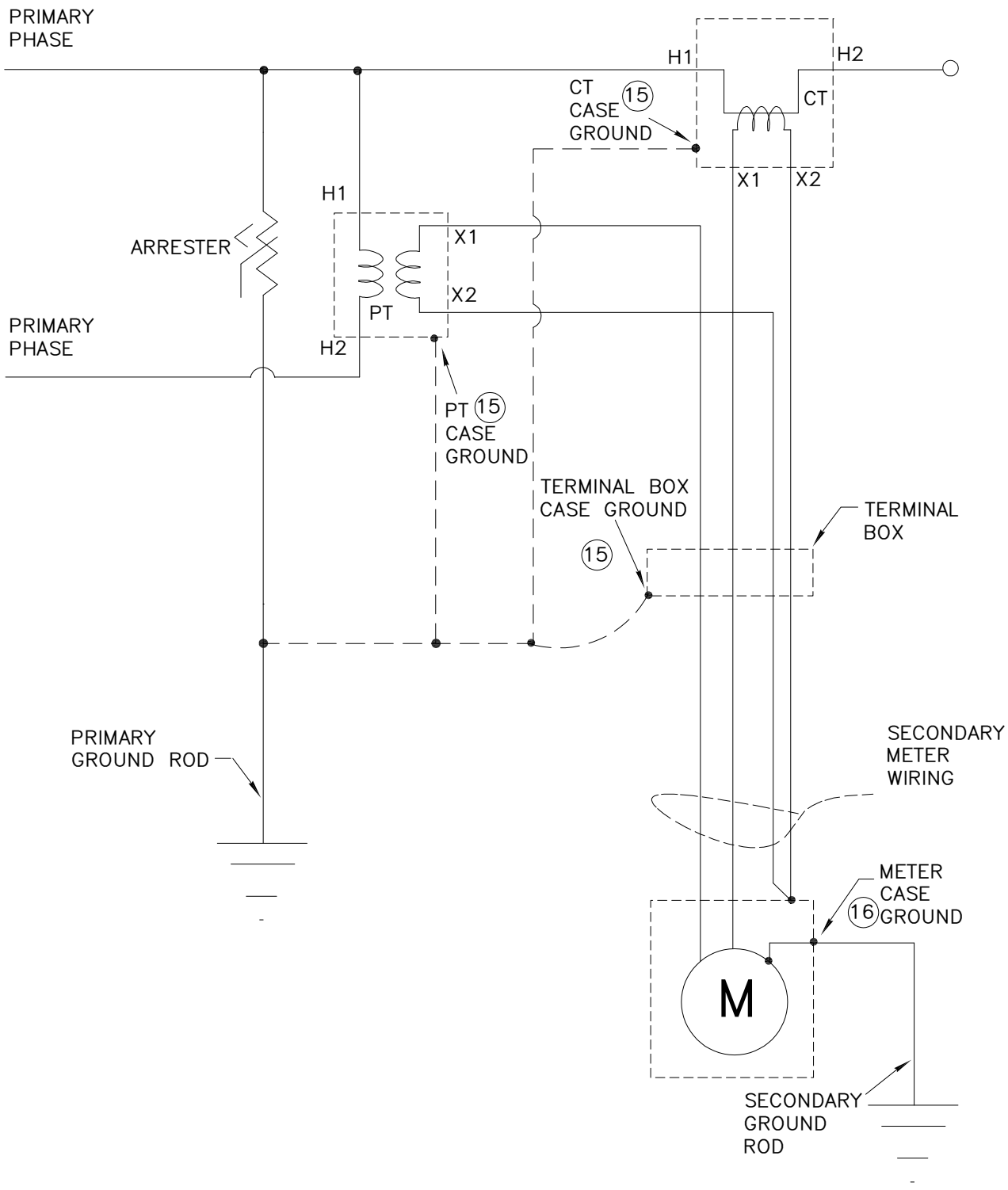

FIGURE-1

3-WIRE GROUNDING

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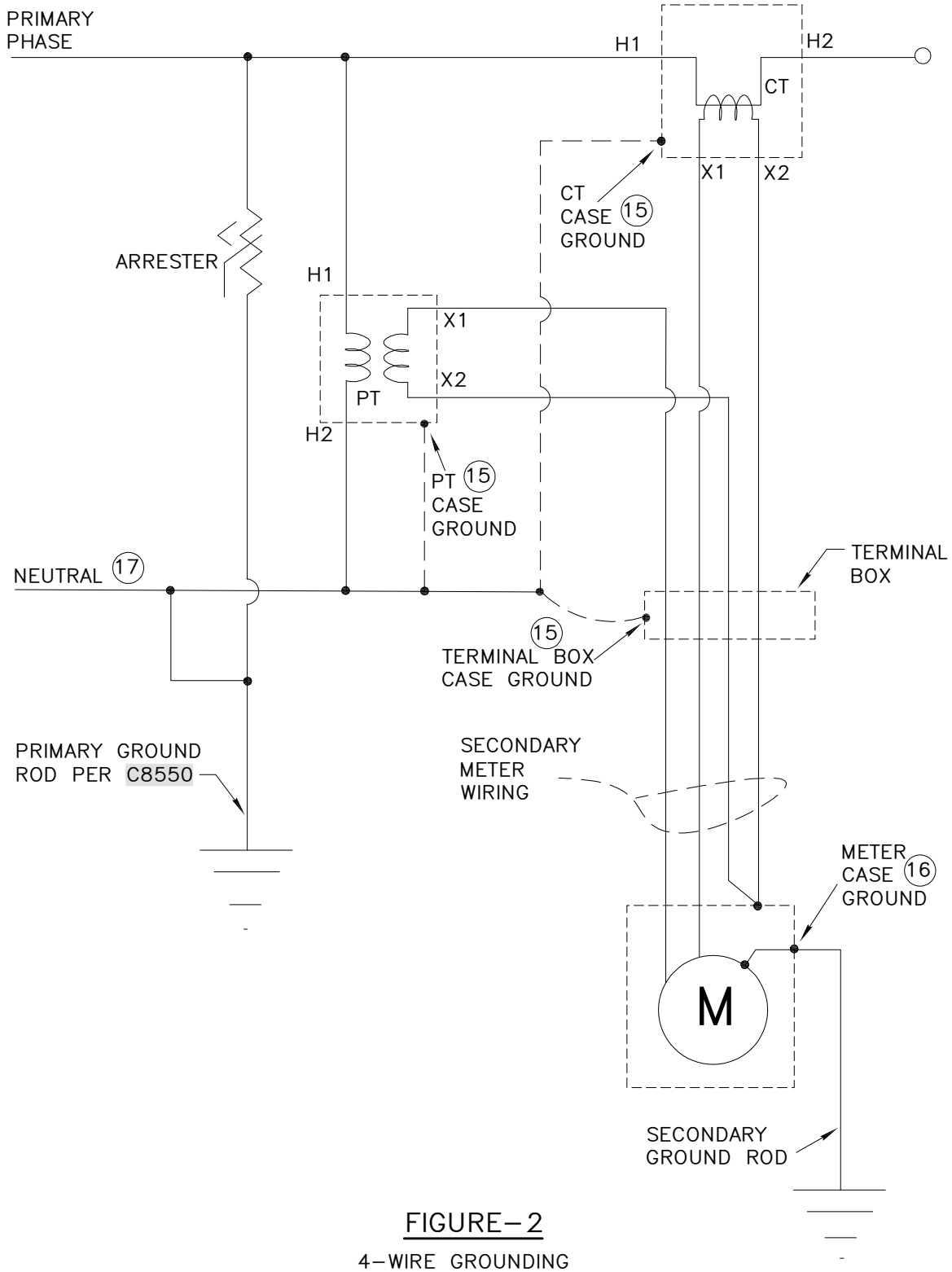

FIGURE-2

4-WIRE GROUNDING

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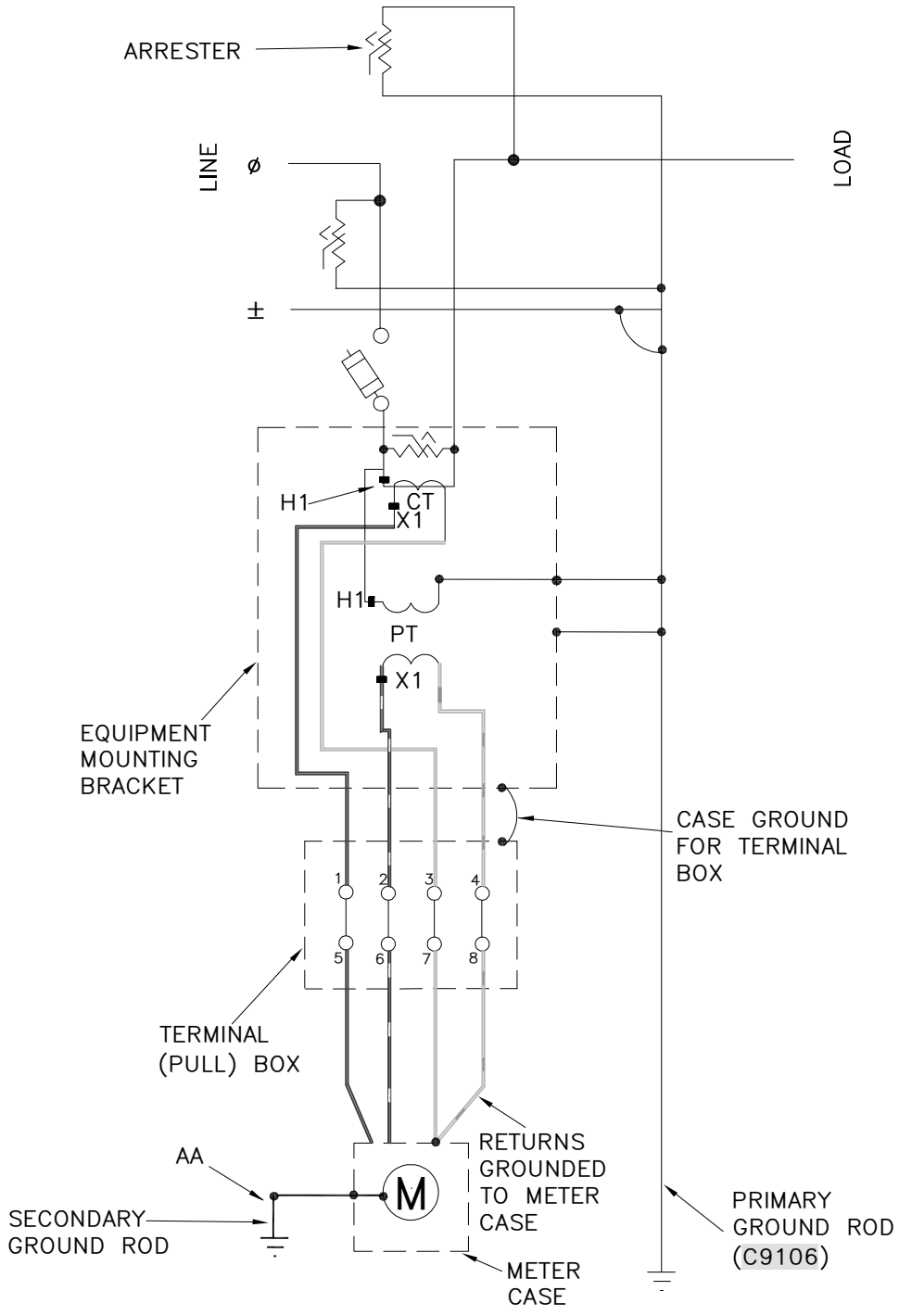

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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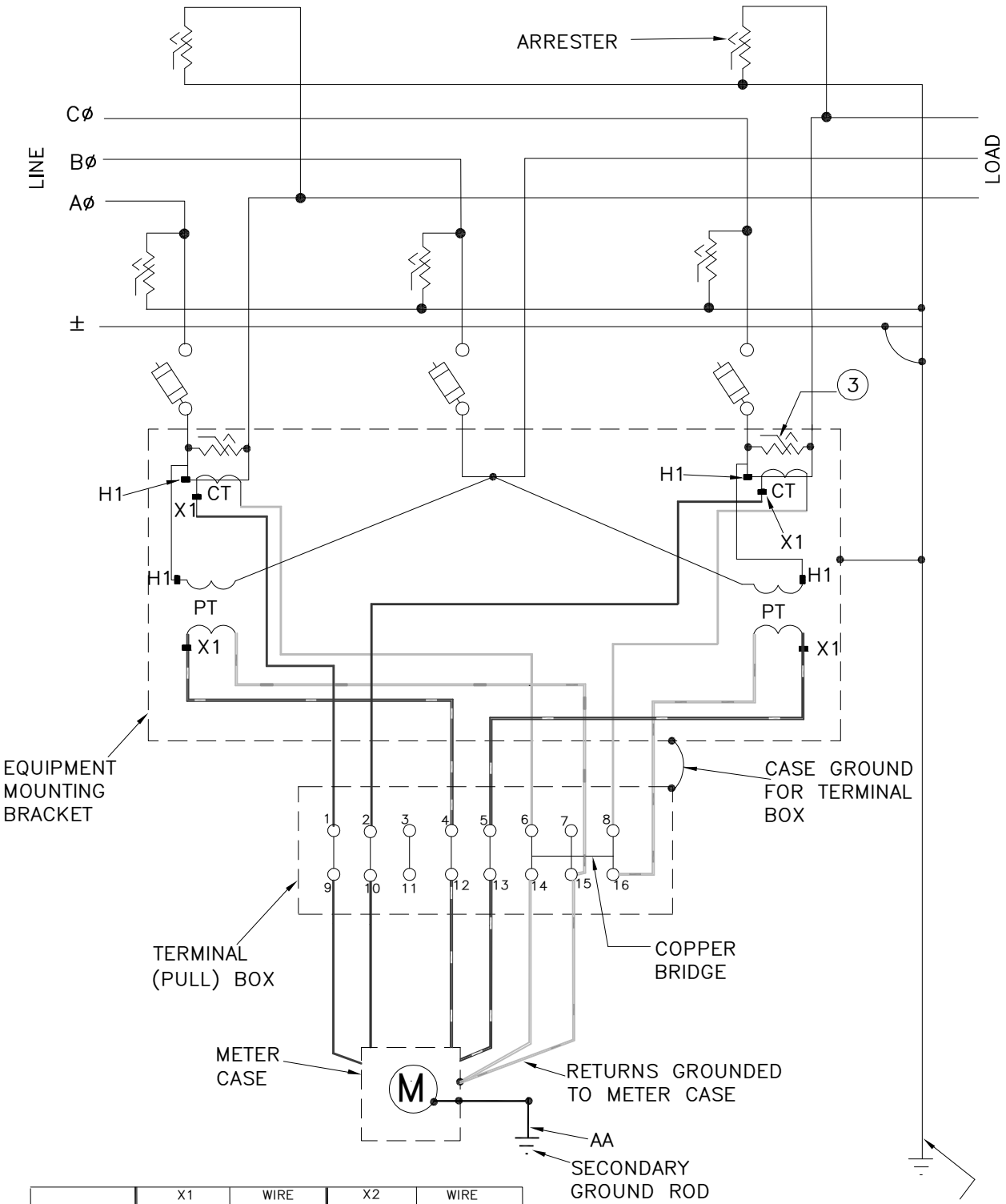

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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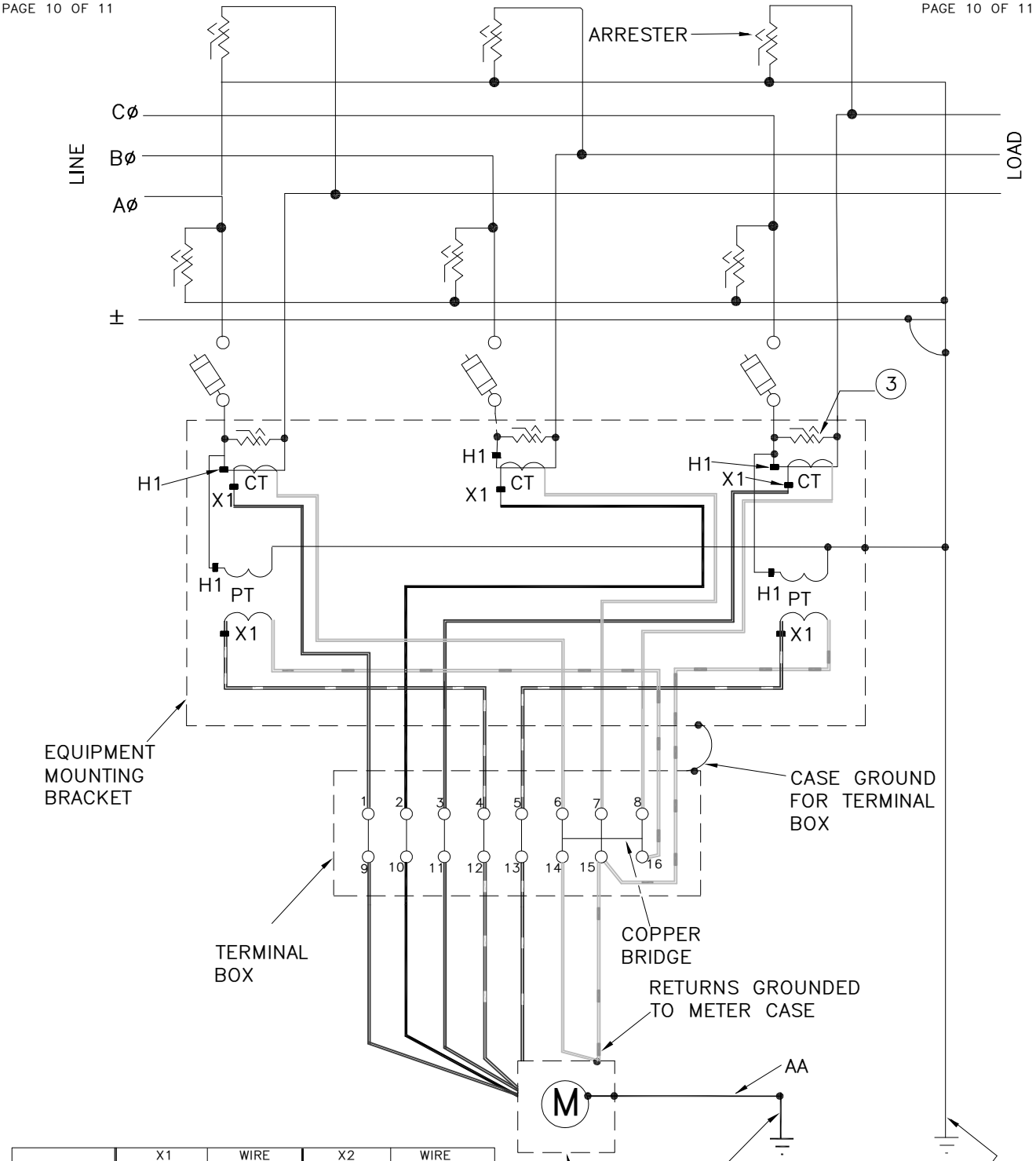

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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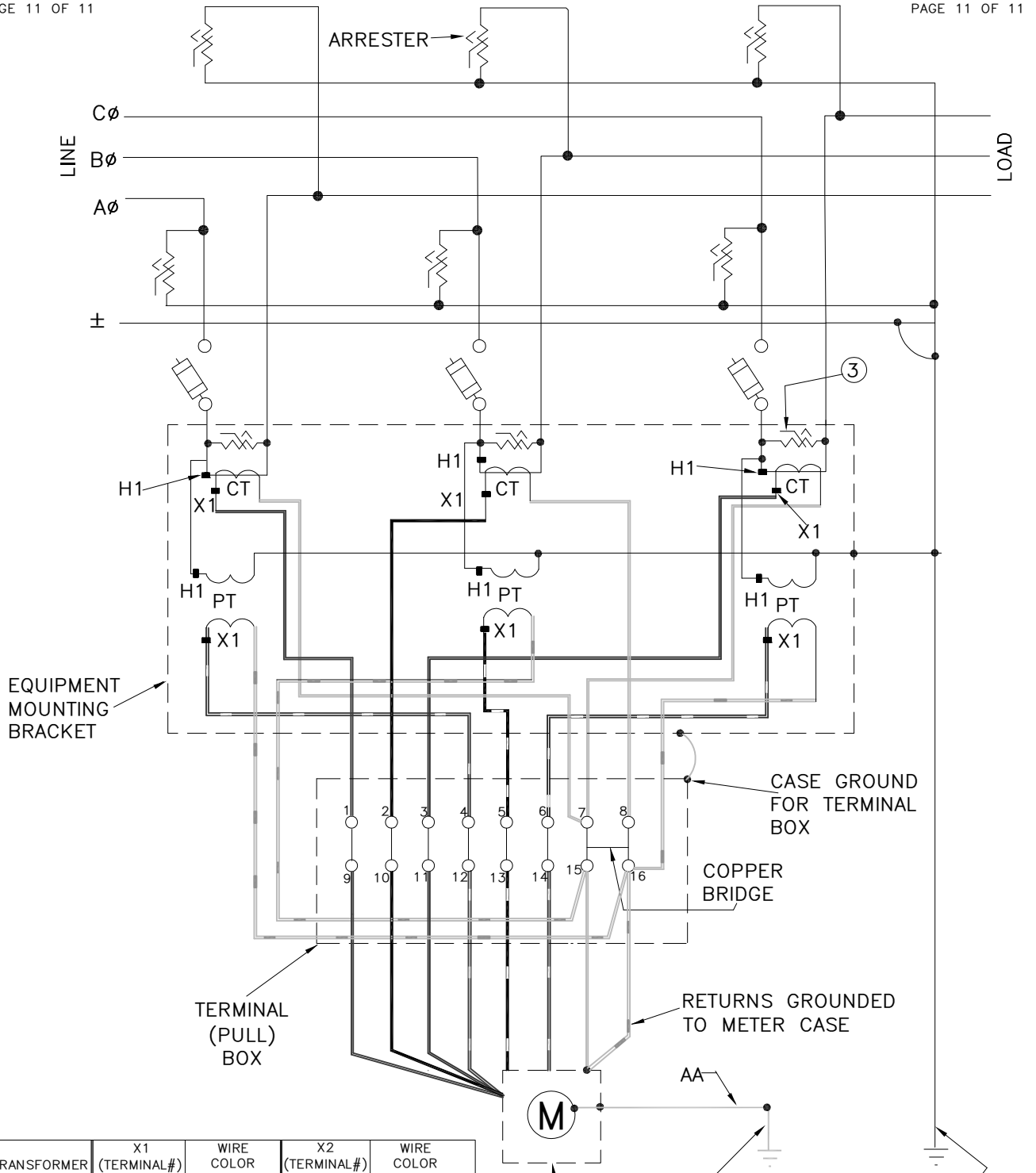

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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N DOCUMENT
52) ON C1723
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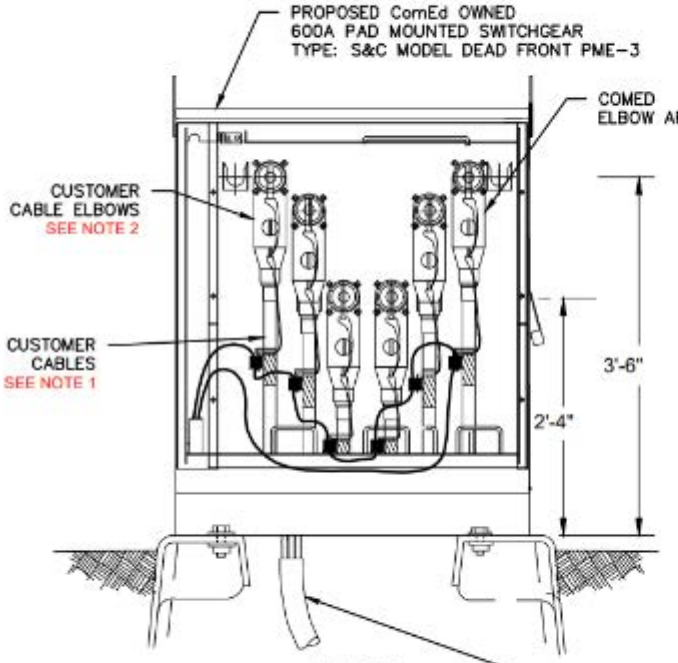
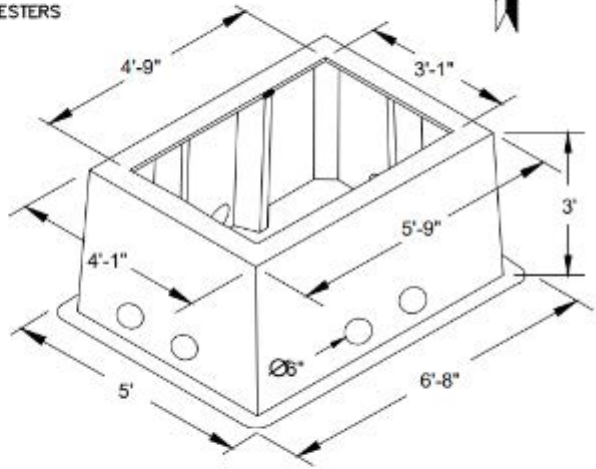


DETAIL 1
POINT OF INTERCONNECTION
(REAR VIEW - LOOKING EAST)



DETAIL 2
FOUNDATION DIMENSIONS
PRIMARY METER & SWITCHGEAR

Eaton STS368ND3-1C00

Catalog Number: STS368ND3-1C00

Eaton shunt trip safety switch, with AFGF relay, 1200 A, Three-pole, 600 Vac, 250 Vdc, 120 Vac, NEMA 12, NEMA 3R, Fusible, 600 V



General specifications

Product Name	**Catalog Number**
Eaton shunt trip safety switch	STS368ND3-1C00
UPC	**Product Length/Depth**
786689369712	23.15 in
Product Height	**Product Width**
72.5 in	47.23 in
Product Weight	**Certifications**
405 lb	UL Listed cUL Certified

Powering Business Worldwide

Physical Attributes

Enclosure

NEMA 12, NEMA 3R

Number Of Poles

Three-pole

Type

Shunt trip safety switch w/ AFGF relay

Performance Ratings

Amperage Rating

1200A

Coil voltage

120 Vac

Protection

Fusible

Voltage rating

600 Vac, 250 Vdc

Resources

Multimedia

Double Up on Safety

ARMS Enclosed Circuit Breaker

Switching Devices Flex Center

Specifications and datasheets

Eaton Specification Sheet - STS368ND3-1C00

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INVERTER

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	**SE80KUS**	**SE50KUS**	**SE100KUS**	**SE110KUS**	**SE120KUS**	**UNITS**
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					˚F / ˚C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

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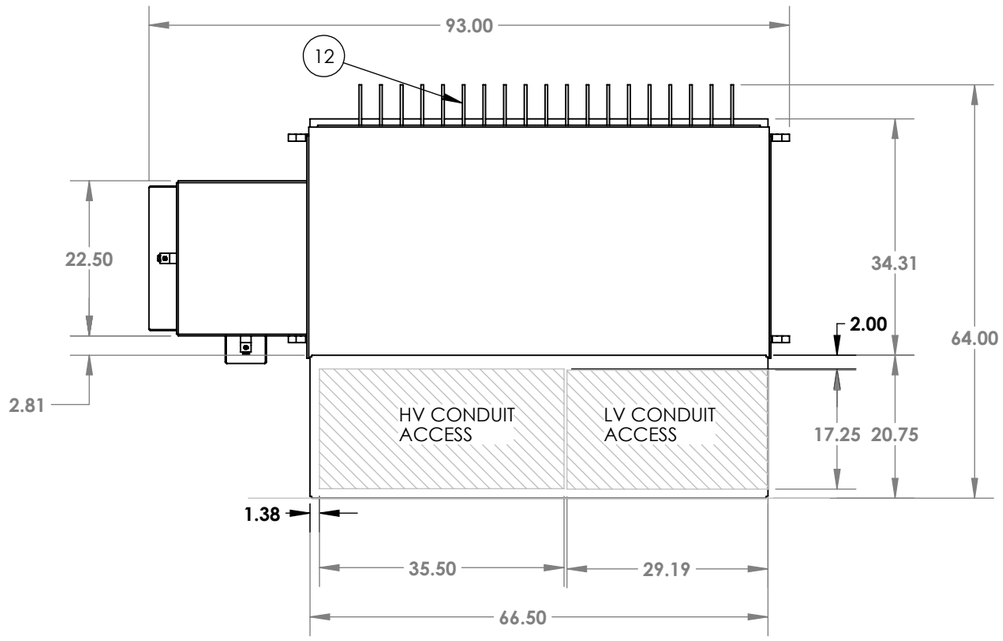
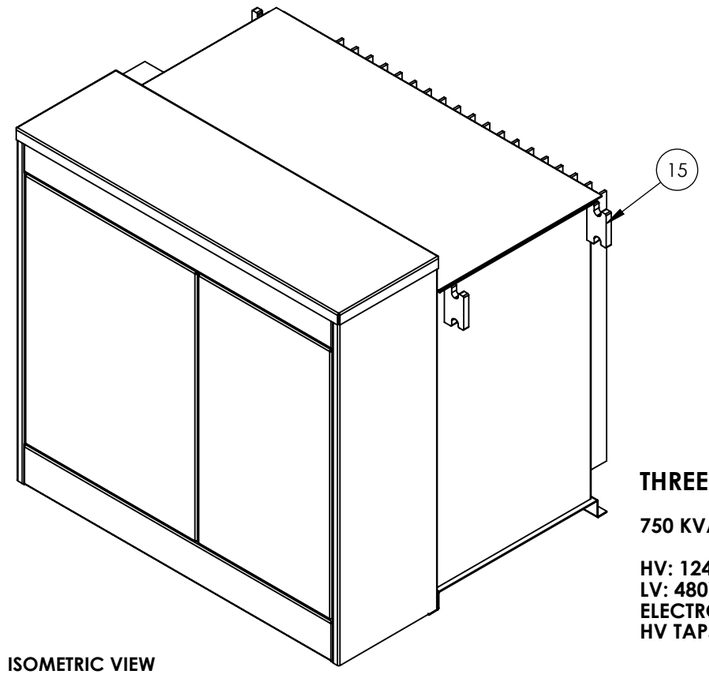


TOP VIEW



ISOMETRIC VIEW

ITEM NO.	PART NUMBER
1	TAP CHANGER (DE-ENERGIZED OPERATION)
2	2 POSITION BOX ASSEMBLY
3	WELLS &15 KV INSERTS
4	10KV ELBOW ARRESTER
5	PARKING STANDS
6	LV BUSHING - 6 HOLE
7	LIQUID LEVEL GAUGE W/ C0NTACT
8	THERMOMETER W/ CONTACT
9	PRESSURE VACUUM GAUGE W/ CONTACT
10	TERMINAL BLOCK (MCMASTER-CARR: 7527K53)
11	BAYONET W/ CURENT LIMITING
12	RADIATORS
13	DRAIN & SAMPLE VALVE
14	GROUND PAD
15	LIFT LUG

THREE PHASE PADMOUNT TRANSFORMER

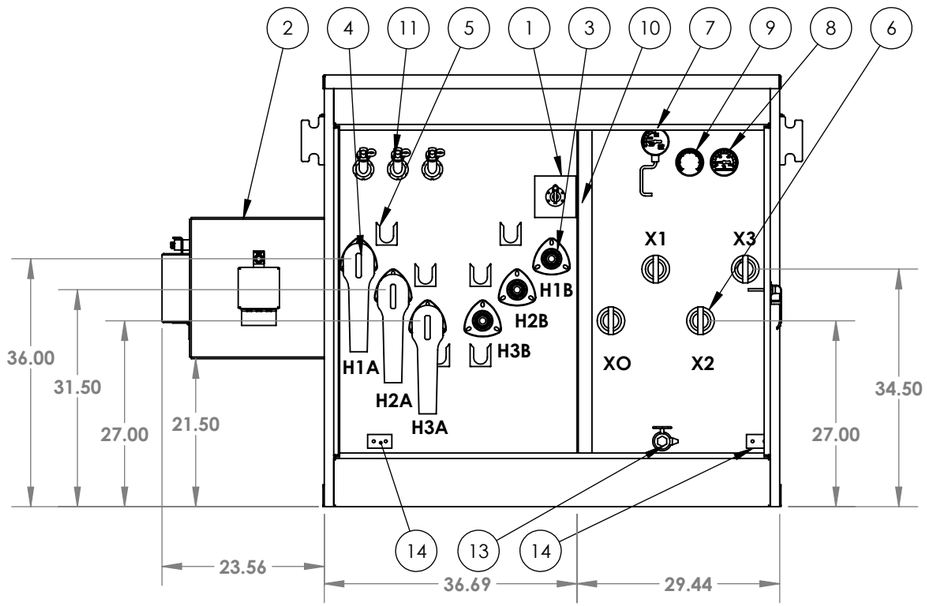
750 KVA AT 65 DEGREES C RISE KNAN

HV: 12470 DELTA BIL: 95KV
LV: 480Y/277 BIL: 30KV
ELECTRO STATIC SHIELD
HV TAPS: -/+ 5%

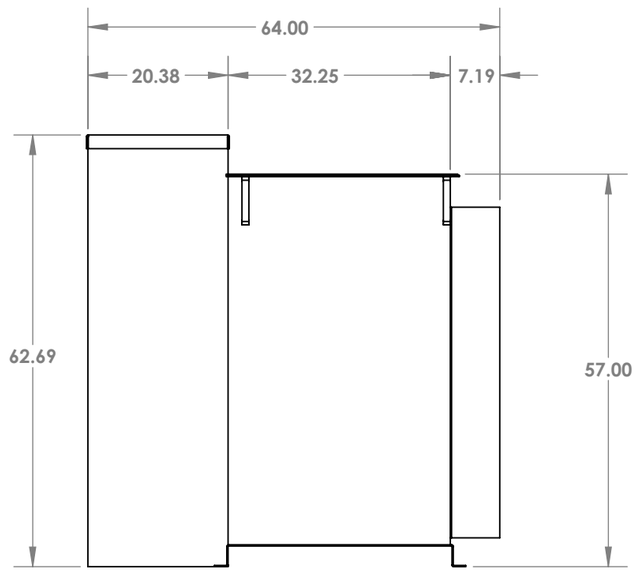
APPROXIMATE WEIGHTS & GALLONS

MAIN OIL GALS:	377 GAL. - FR3
CORE & COILS:	3,651 LBS.
TANK & FITTINGS:	1,921 LBS.
MAIN OIL WT:	2,828 LBS.
TOTAL WT:	8,400 LBS.

*****WEIGHTS AND GALLONS ARE NOT FINAL UNTIL AFTER DESIGN*****



FRONT VIEW



RIGHT VIEW

Drawing For Approval

	BY	DATE
___ APPROVED FOR FABRICATION		
___ APPROVED FOR FABRICATION AS NOTED		
___ RESUBMIT AS NOTED		

Transformer will not be realeased to scheduling until drawing is approved

NOTE: ALL DIMENSIONS & WEIGHTS ARE APPROXIMATE. THE NUMBER AND PRECISE LOCATIONS OF GAUGES, VALVES, PRESSURE RELIEF'S, BUSHINGS, AND OTHER COMPONENTS IS SUBJECT TO CHANGE BEFORE UNIT IS COMPLETE.

TITLE: THREE PHASE PADMOUNT		CUSTOMER: SOLAR LANDSCAPE, LLC			REVISION:
IC #: 122014748		WORK ORDER #: 445149		SALES ORDER #: 339918	
DRAWN BY: MC	DATE: 03/26/25	CHECKED BY:	DATE:	DRAWNING TYPE: APPROVAL	

PROPRIETARY AND CONFIDENTIAL
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UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES

SUNBELT SOLOMON

SHEET 1 OF 1

PANEL MARKS: **1200A**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	1200A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	65 KAIC SC FULLY RATED
MATERIAL:	ALUMINUM BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR.	Bottom
TYPE:	Lugs
AMPS/SENSOR:	1200A/-
CATALOG NO.:	LGML260A
POLES:	3
LUGS:	Main Lug (4) #2-500 mcm, No Feed Through

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
16	12

OPTIONS INCLUDED

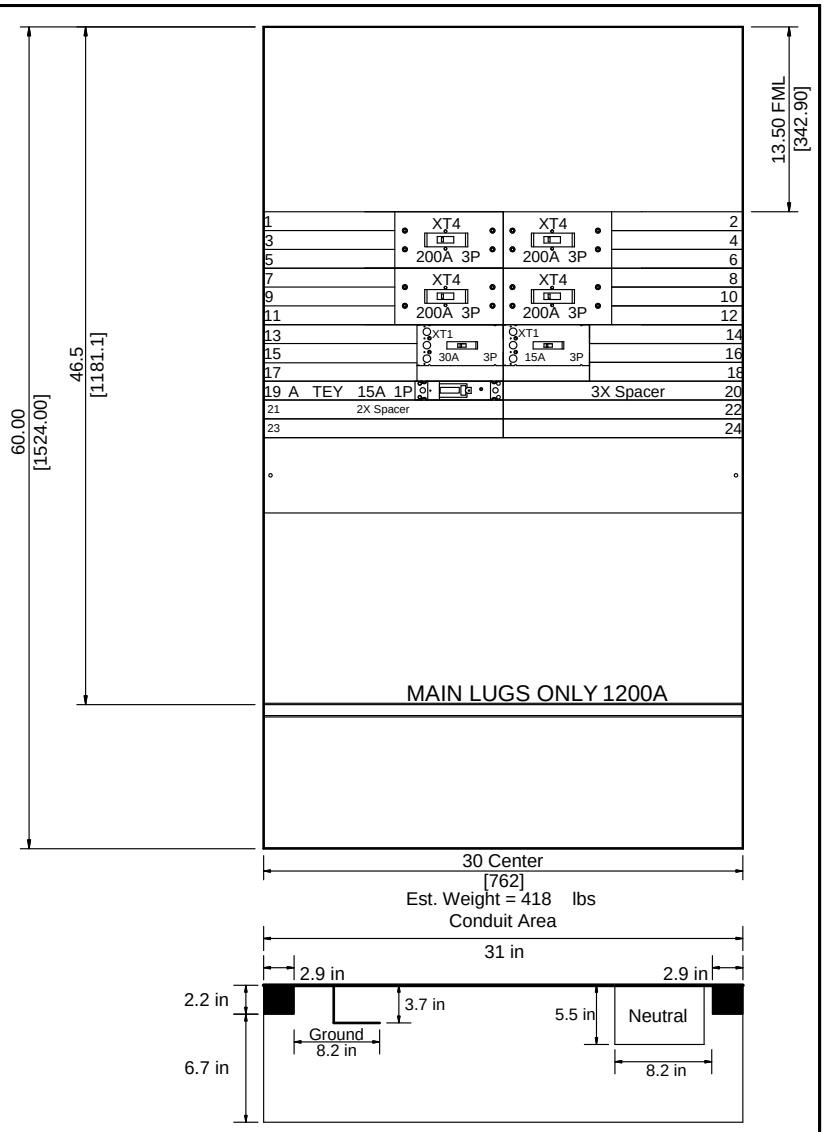
QTY	DESCRIPTION
1	Aluminum Bus Heat Rated
1	47 Ckt bonded grd

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER6030R	Enclosure
1	GC30C16BLA	Gutter Covers
1	FT30S00135	Front 1 of 2
1	FT30S00260	Front 2 of 2
1	BP30C	WirePost

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG47AL	Ground
1	IN1612BL3H1	Interior Bus Stack
1	NL12I0NSTNDAL	Neutral
6	LGML260A	MLO and/or FTL Kit
0	LGML45	Main Code - Not a Catalog Number
1	IF1630C	Interior Frame
1	IL30C	Lifting Kits
1	SR02BB	2X Blank only
1	SR03BB	3X Blank only
2	SR1XBR	1 XT1 Mtg Kit, Narrow



PANEL INFORMATION	
INTERNAL DIMENSIONS	60"X32"X11"
NOTES	
EXTERNAL DIMENSIONS	61"X33.5"X16.7"

1. FML - FRAME MOUNTING LOCATION.
2. DRAWING NOT TO SCALE.
3. DIMENSIONS ARE IN INCHES[mm].

NEUTRAL CAN BE MOUNTED IN ANY CORNER

FACTORY AUTO-LAYOUT. THE LAYOUT IS NOT SPECIFIED, THE FACTORY MAY CHANGE THE LOCATION OF SOME OF THE BREAKERS. NEUTRAL ARE PRESSURE LUGS.

PROJECT NAME : Q- Panelboard Specs Aug 2024 - Solar Landscape		PANEL ID: neXT Panel Assembled Interior	PRODUCT NAME: *ReliaGear neXT PANELBOARD*	DRAWING NO:	
CUSTOMER: SUNBELT SOLOMON		CREATED BY: Basden, Joseph		ITEM NO:	15
		DATE: 08/14/2024 15:15:21		MARKS:	1200A
		REVISION NO.		QUOTE NO:	UM4-00002453
				SHEET:	1

8/14/2024 3:32:09 PM SAP ORDER:

neXT Device Information

X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
1	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
2	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
7	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
8	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
13	XT1HU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1HU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYALEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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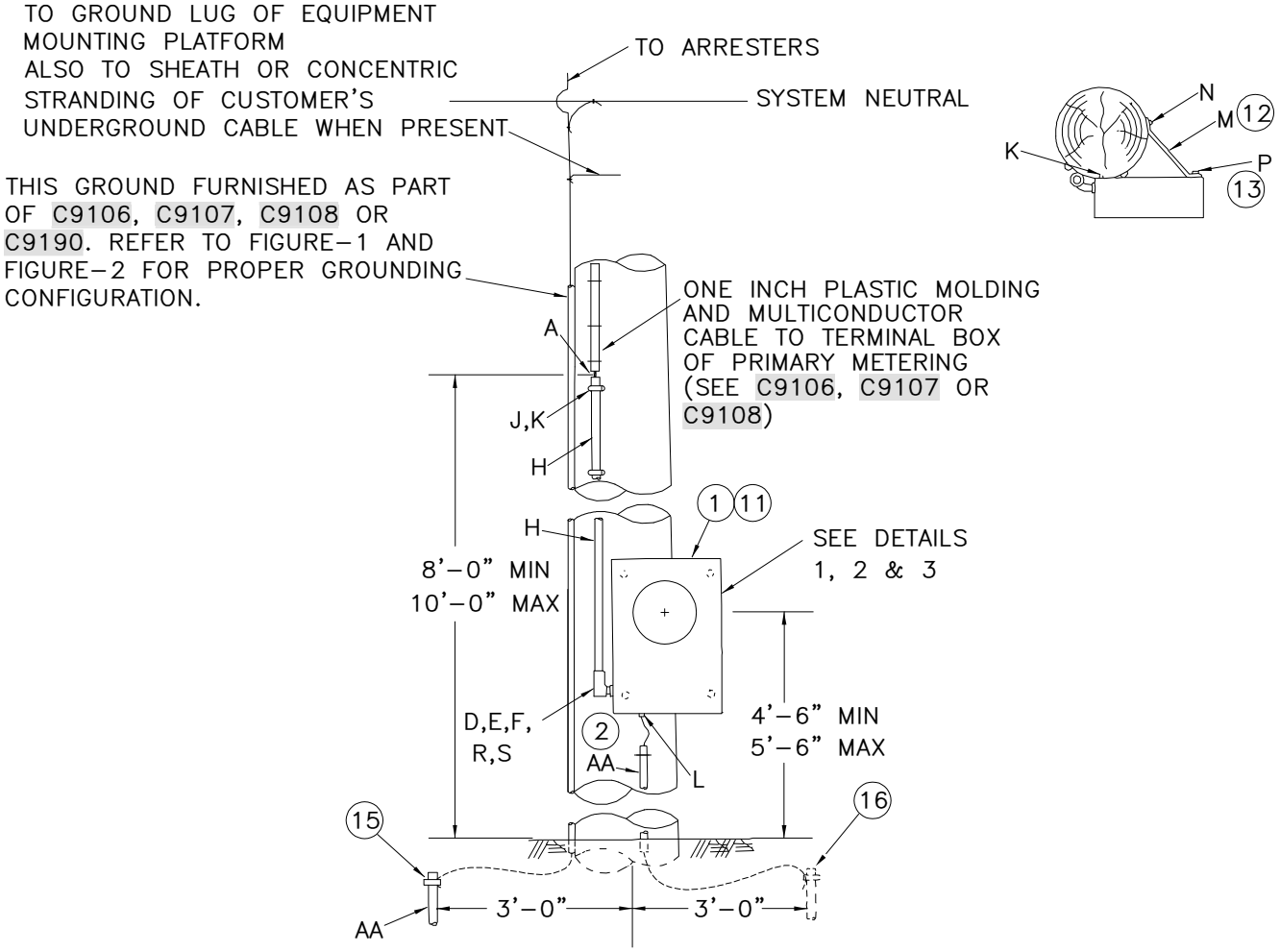
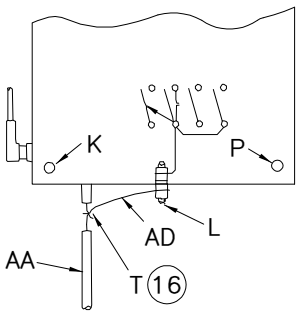
C9105
PAGE 2 OF 11

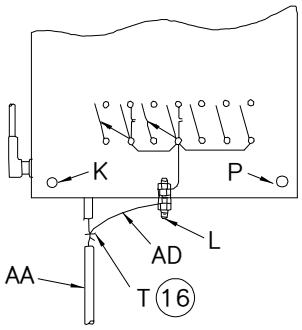


C9105.1_

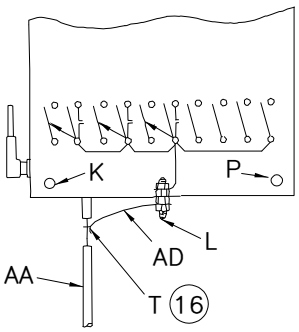
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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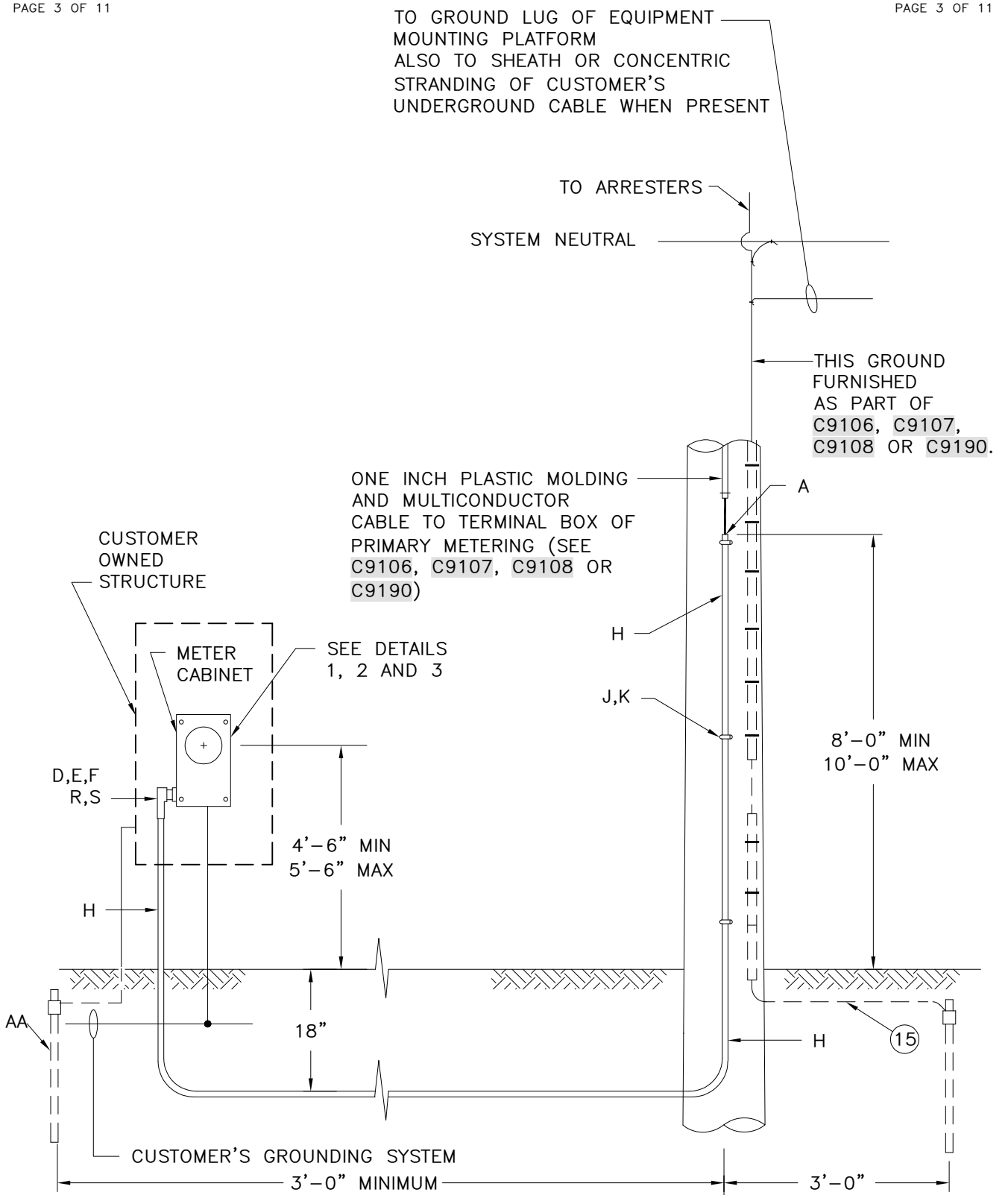

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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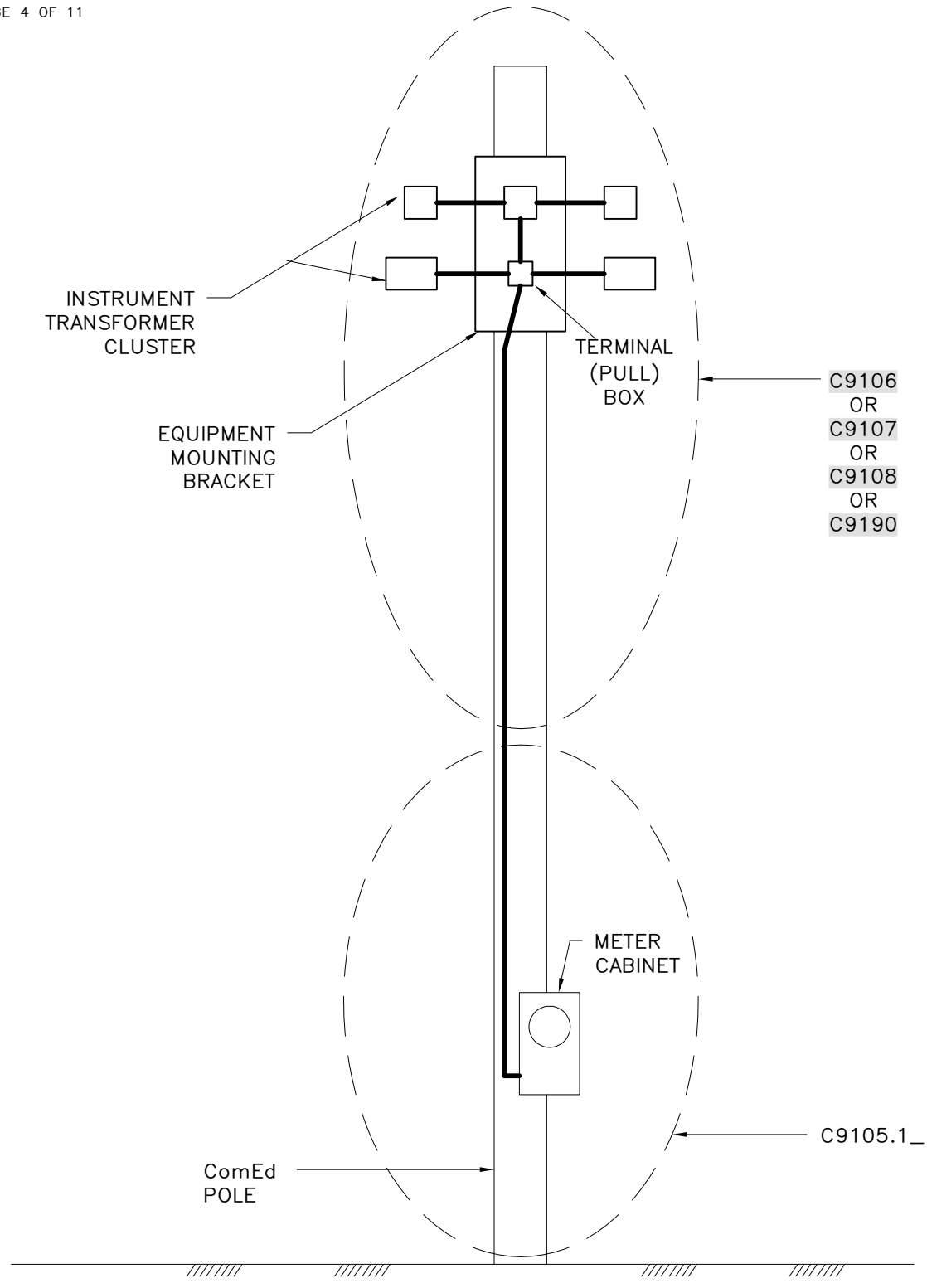

DETAIL-4

METER ON PRIMARY METERING POLE

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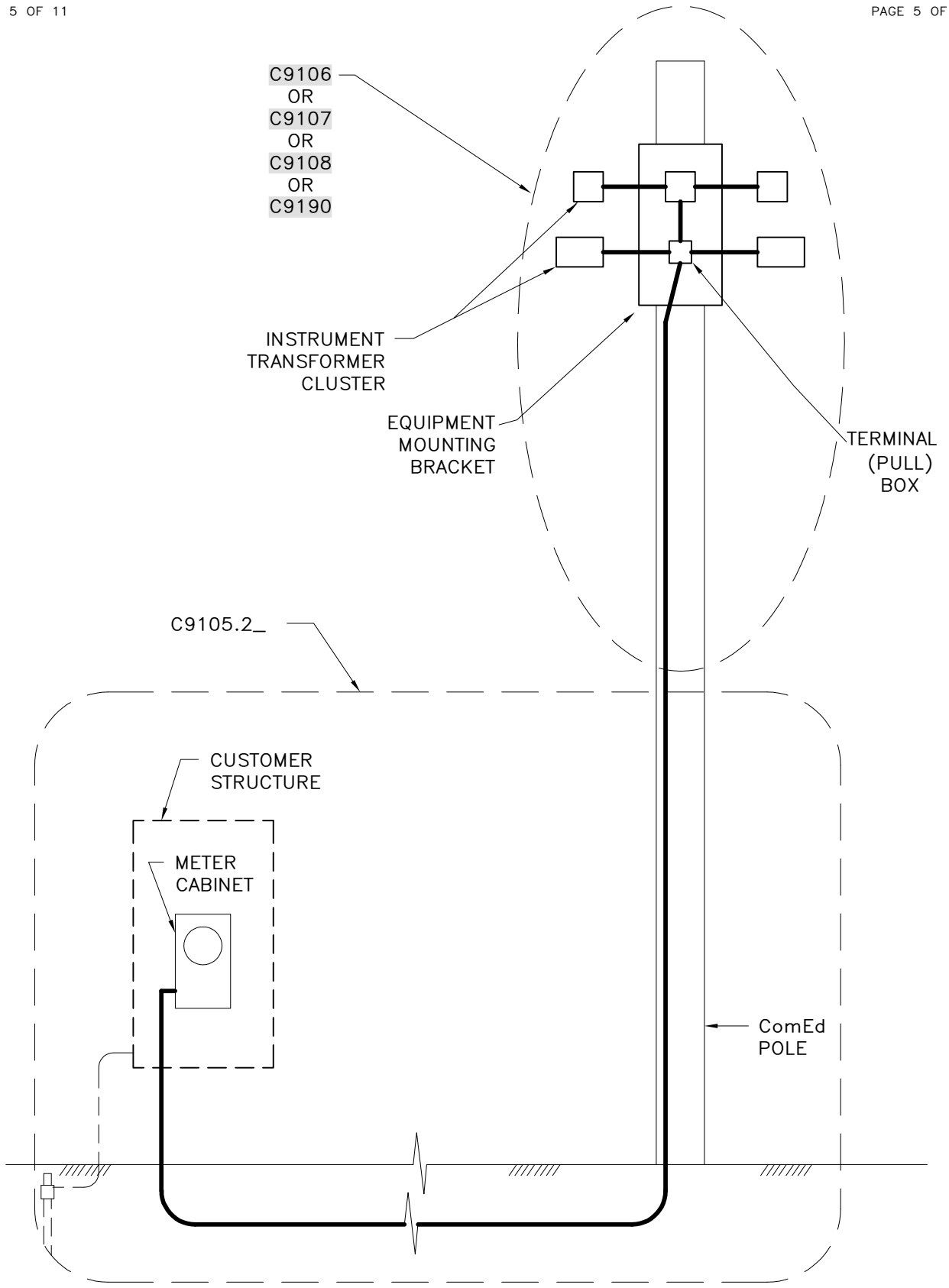

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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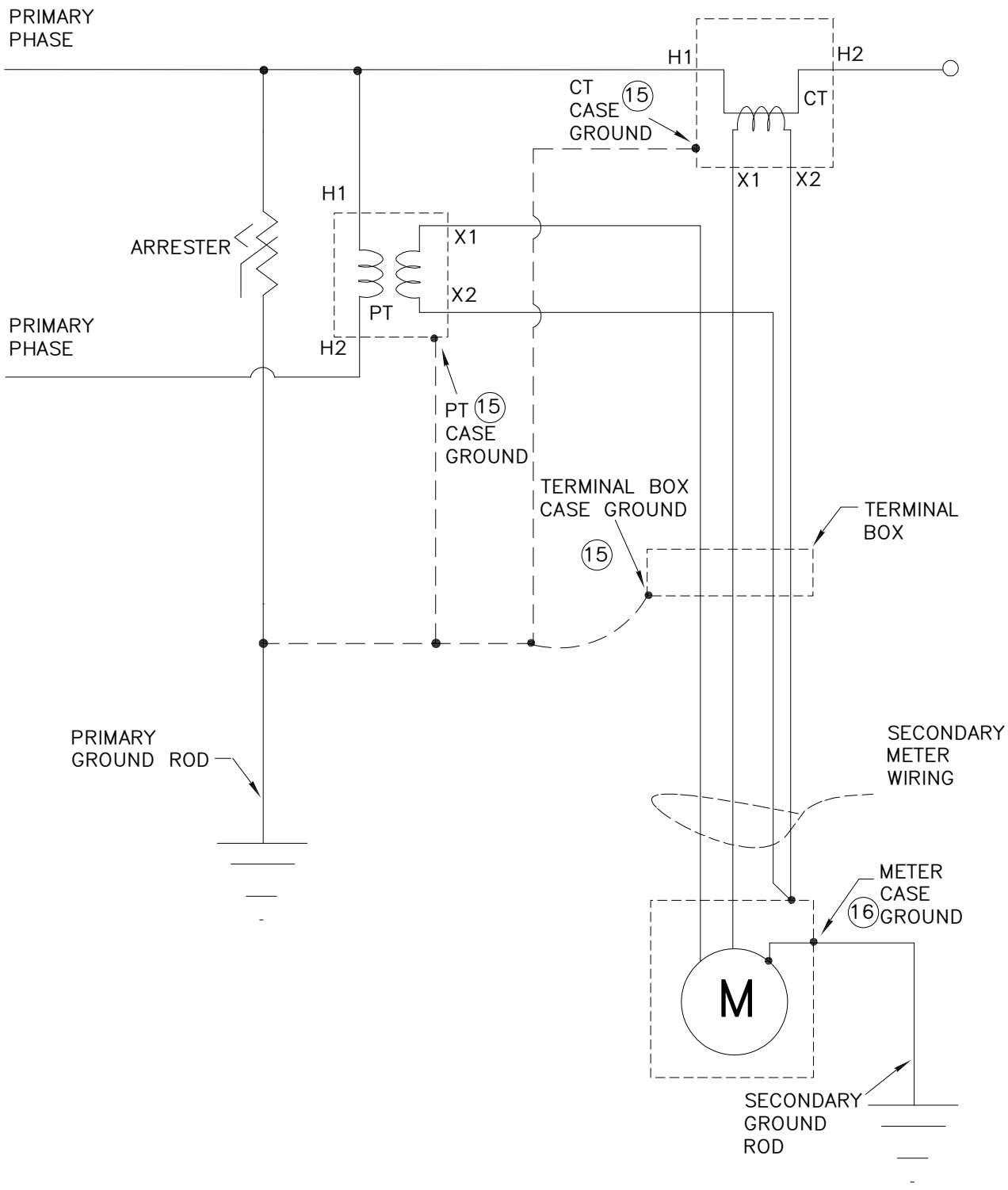

FIGURE-1

3-WIRE GROUNDING

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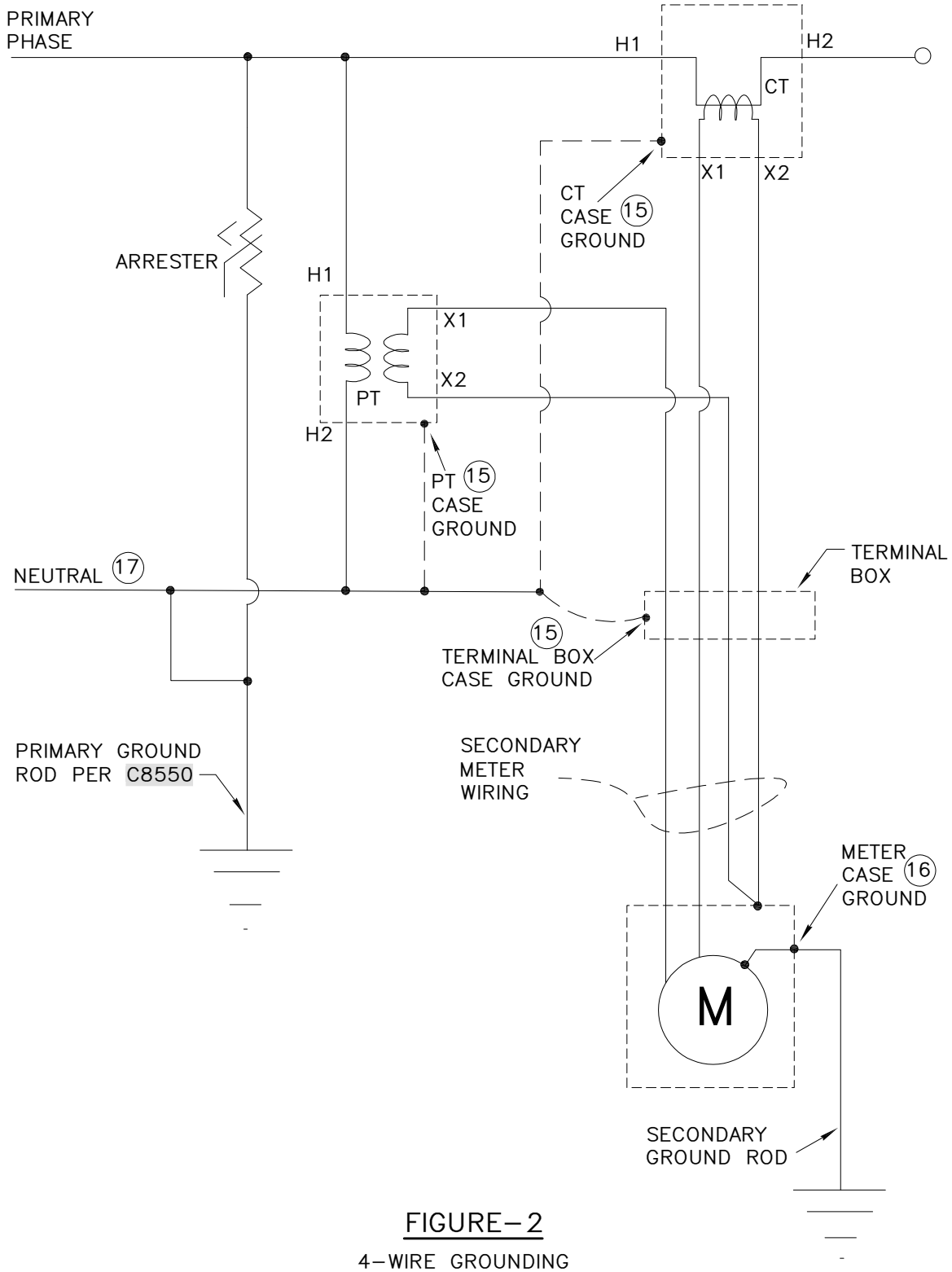

FIGURE-2

4-WIRE GROUNDING

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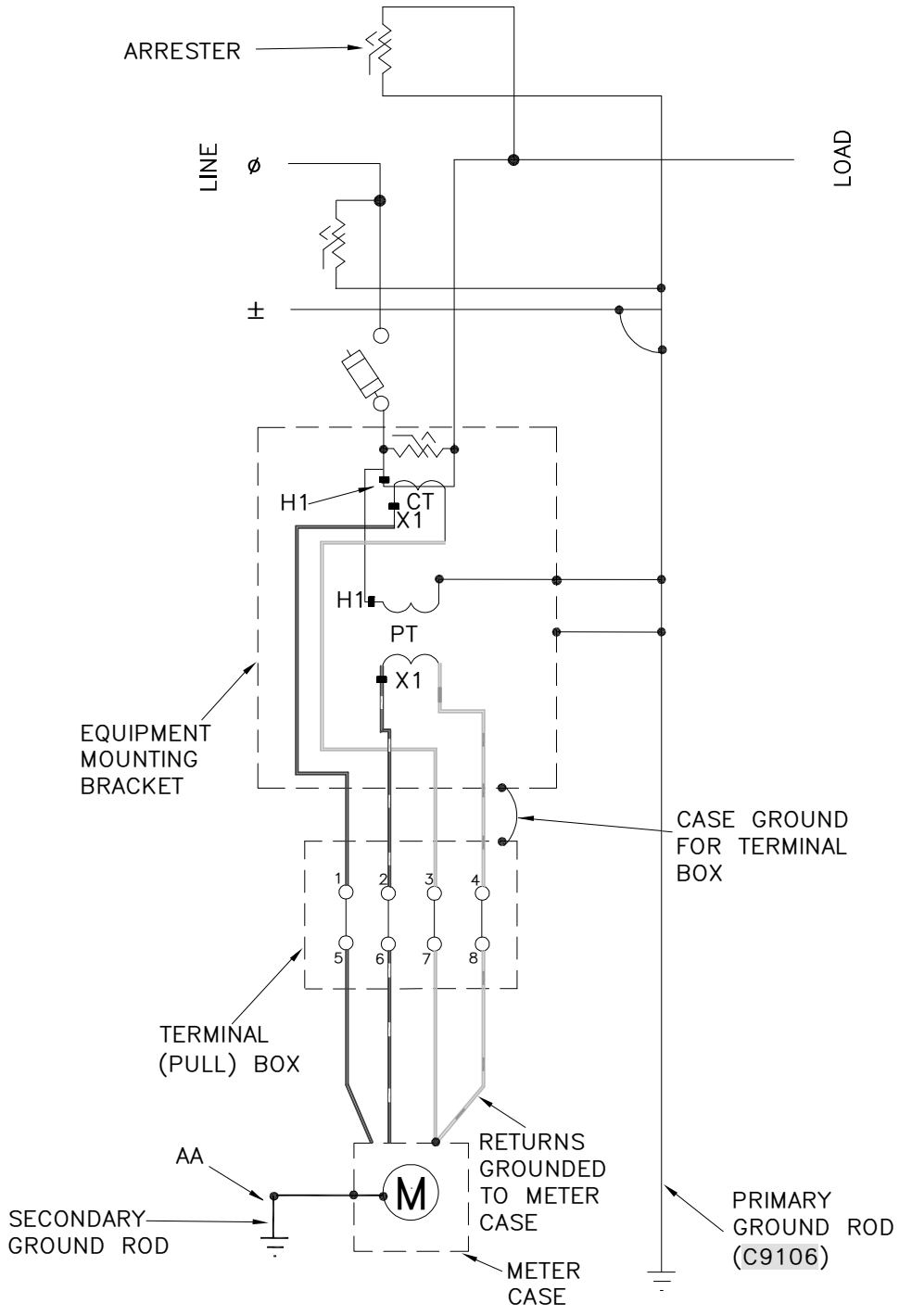

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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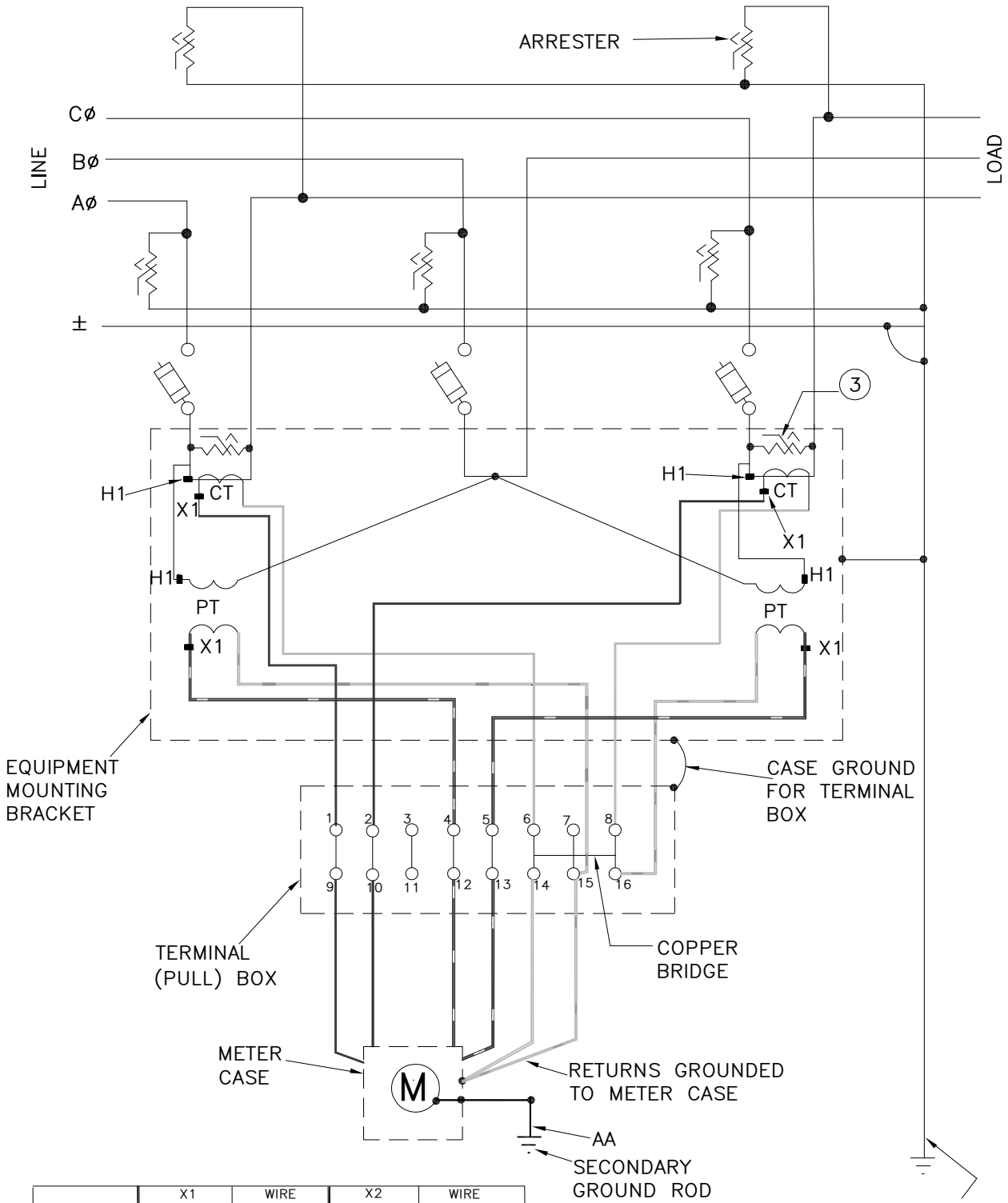

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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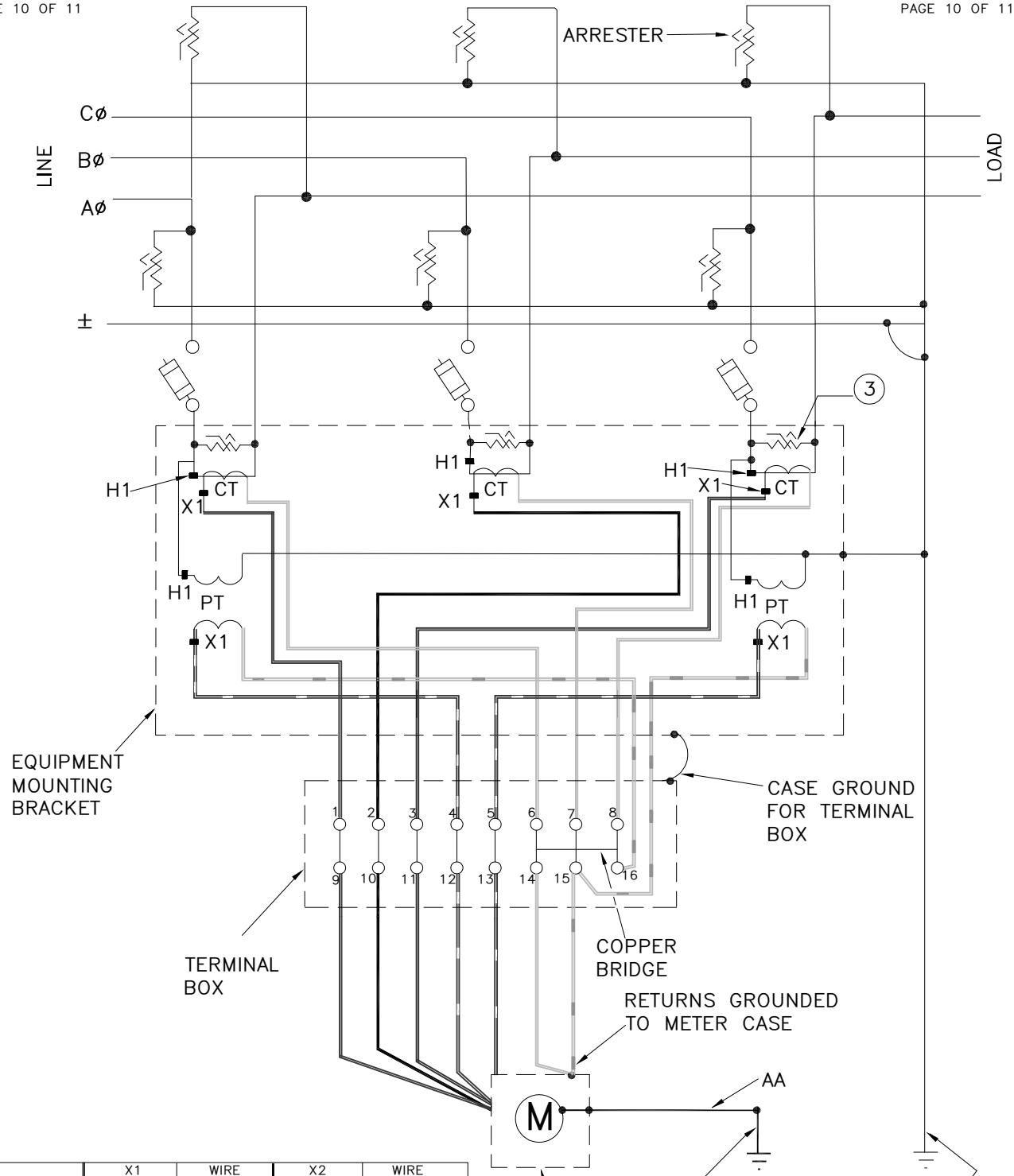

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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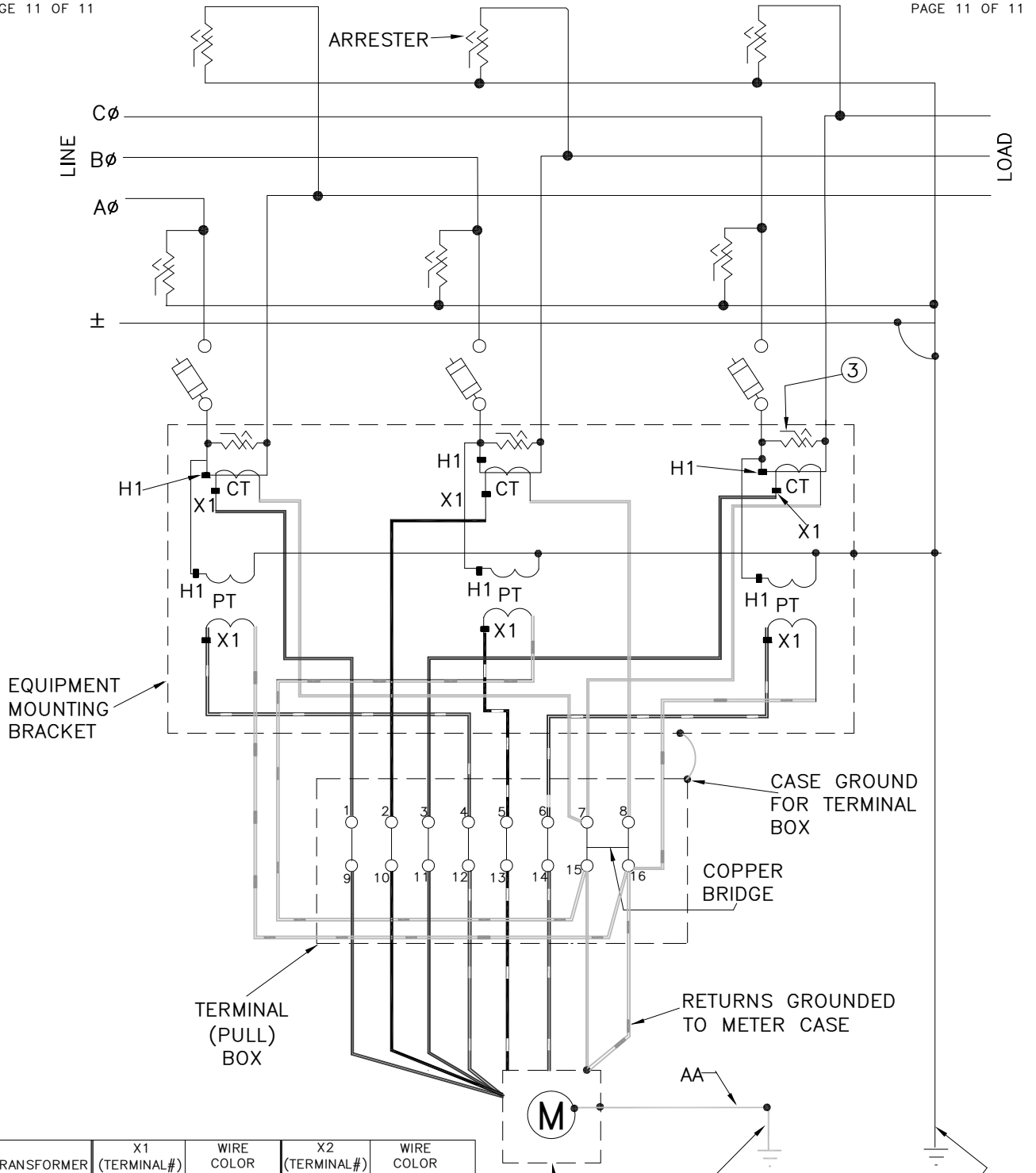

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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N DOCUMENT
52) ON C1723
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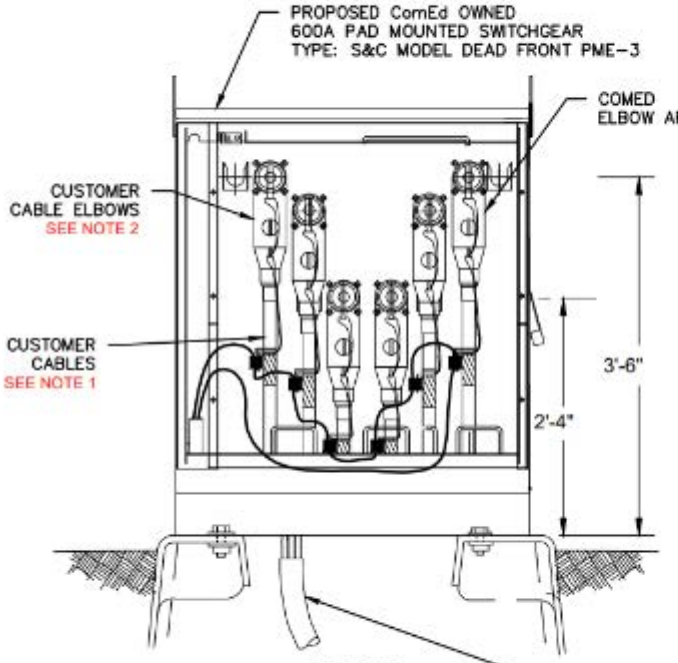
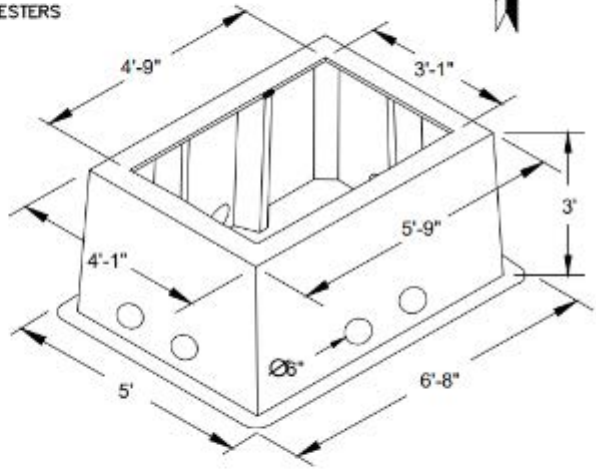


DETAIL 1
POINT OF INTERCONNECTION
(REAR VIEW - LOOKING EAST)



DETAIL 2
FOUNDATION DIMENSIONS
PRIMARY METER & SWITCHGEAR

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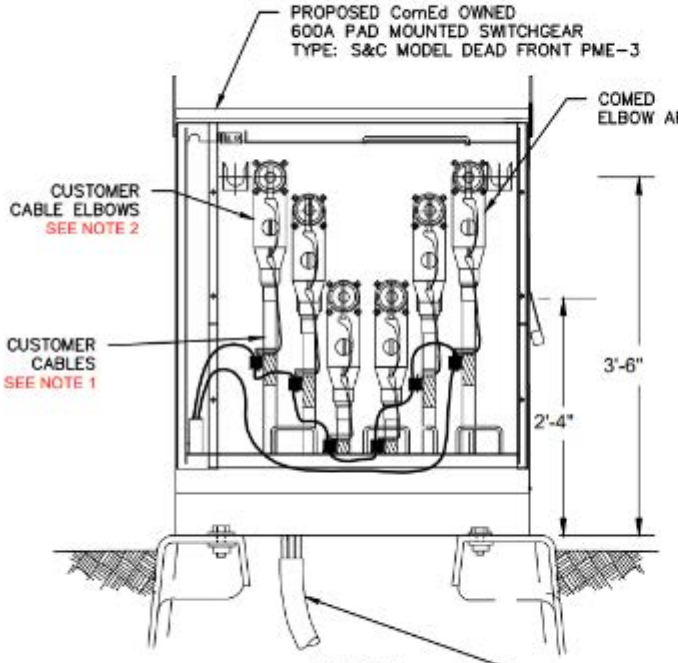
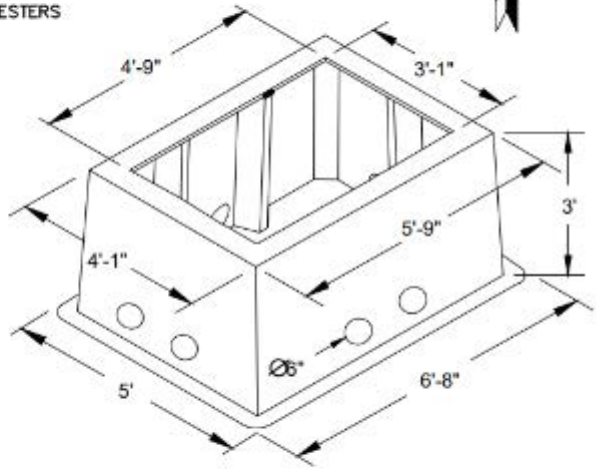
NG, IL 60090



DETAIL 1
POINT OF INTERCONNECTION
(REAR VIEW - LOOKING EAST)



DETAIL 2
FOUNDATION DIMENSIONS
PRIMARY METER & SWITCHGEAR

Eaton STS368ND3-1C00

Catalog Number: STS368ND3-1C00

Eaton shunt trip safety switch, with AFGF relay, 1200 A, Three-pole, 600 Vac, 250 Vdc, 120 Vac, NEMA 12, NEMA 3R, Fusible, 600 V



General specifications

Product Name	**Catalog Number**
Eaton shunt trip safety switch	STS368ND3-1C00
UPC	**Product Length/Depth**
786689369712	23.15 in
Product Height	**Product Width**
72.5 in	47.23 in
Product Weight	**Certifications**
405 lb	UL Listed cUL Certified

Powering Business Worldwide

Physical Attributes

Enclosure

NEMA 12, NEMA 3R

Number Of Poles

Three-pole

Type

Shunt trip safety switch w/ AFGF relay

Performance Ratings

Amperage Rating

1200A

Coil voltage

120 Vac

Protection

Fusible

Voltage rating

600 Vac, 250 Vdc

Resources

Multimedia

Double Up on Safety

ARMS Enclosed Circuit Breaker

Switching Devices Flex Center

Specifications and datasheets

Eaton Specification Sheet - STS368ND3-1C00

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Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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INVERTER

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	**SE80KUS**	**SE50KUS**	**SE100KUS**	**SE110KUS**	**SE120KUS**	**UNITS**
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					˚F / ˚C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

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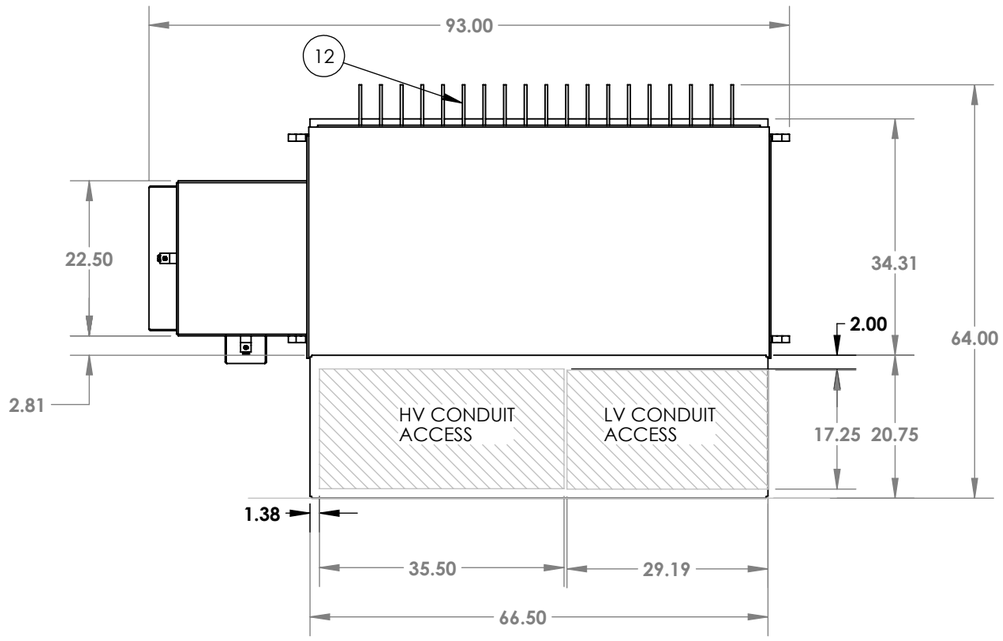
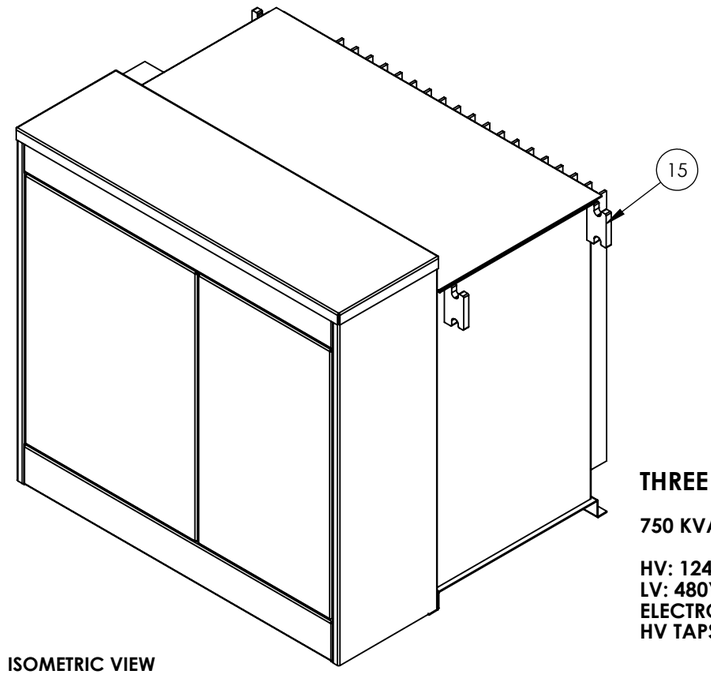


TOP VIEW



ISOMETRIC VIEW

ITEM NO.	PART NUMBER
1	TAP CHANGER (DE-ENERGIZED OPERATION)
2	2 POSITION BOX ASSEMBLY
3	WELLS &15 KV INSERTS
4	10KV ELBOW ARRESTER
5	PARKING STANDS
6	LV BUSHING - 6 HOLE
7	LIQUID LEVEL GAUGE W/ CONTACT
8	THERMOMETER W/ CONTACT
9	PRESSURE VACUUM GAUGE W/ CONTACT
10	TERMINAL BLOCK (MCMASTER-CARR: 7527K53)
11	BAYONET W/ CURENT LIMITING
12	RADIATORS
13	DRAIN & SAMPLE VALVE
14	GROUND PAD
15	LIFT LUG

THREE PHASE PADMOUNT TRANSFORMER

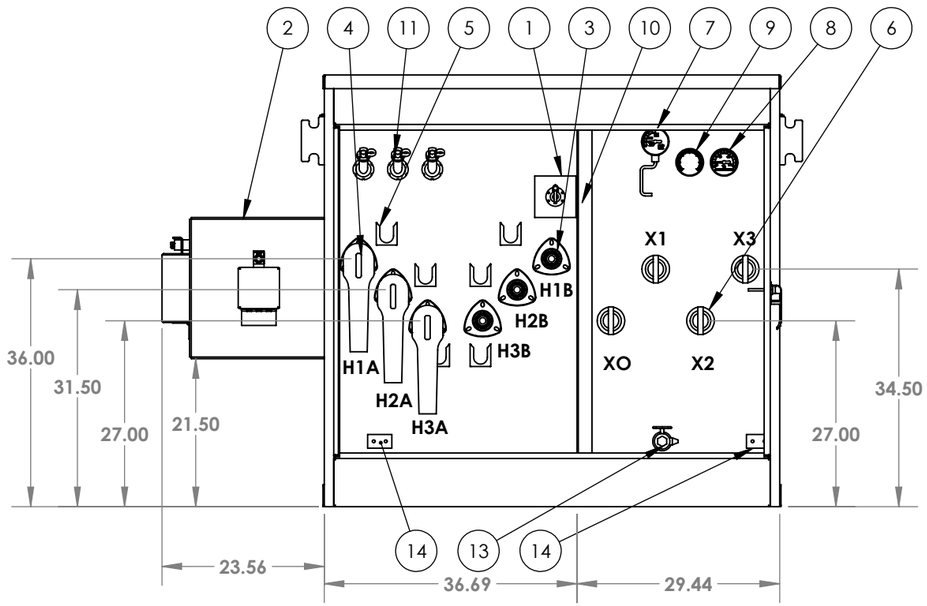
750 KVA AT 65 DEGREES C RISE KNAN

HV: 12470 DELTA BIL: 95KV
LV: 480Y/277 BIL: 30KV
ELECTRO STATIC SHIELD
HV TAPS: -/+ 5%

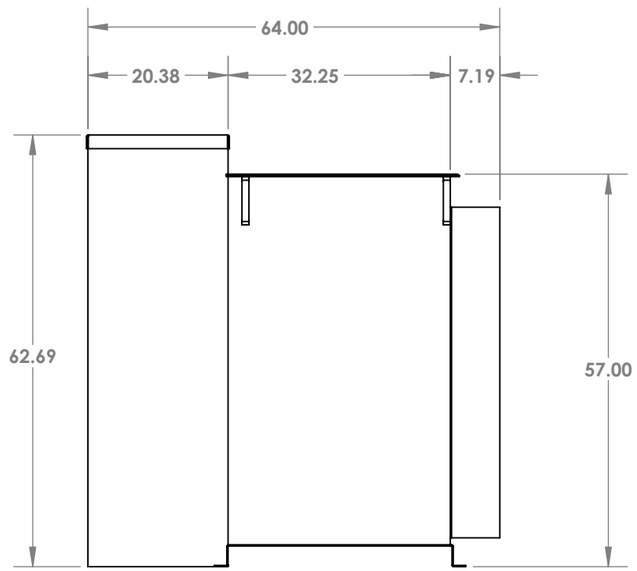
APPROXIMATE WEIGHTS & GALLONS

MAIN OIL GALS:	377 GAL. - FR3
CORE & COILS:	3,651 LBS.
TANK & FITTINGS:	1,921 LBS.
MAIN OIL WT:	2,828 LBS.
TOTAL WT:	8,400 LBS.

*****WEIGHTS AND GALLONS ARE NOT FINAL UNTIL AFTER DESIGN*****



FRONT VIEW



RIGHT VIEW

Drawing For Approval

	BY	DATE
___ APPROVED FOR FABRICATION		
___ APPROVED FOR FABRICATION AS NOTED		
___ RESUBMIT AS NOTED		

Transformer will not be realeased to scheduling until drawing is approved

NOTE: ALL DIMENSIONS & WEIGHTS ARE APPROXIMATE. THE NUMBER AND PRECISE LOCATIONS OF GAUGES, VALVES, PRESSURE RELIEF'S, BUSHINGS, AND OTHER COMPONENTS IS SUBJECT TO CHANGE BEFORE UNIT IS COMPLETE.

TITLE:	THREE PHASE PADMOUNT	CUSTOMER:	SOLAR LANDSCAPE, LLC			REVISION:	
IC #	122014748	WORK ORDER #	445149	SALES ORDER #	339918		
DRAWN BY:	MC	DATE:	03/26/25	CHECKED BY:	DATE:	DRAWNING TYPE:	APPROVAL

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SHEET 1 OF 1

SUNBELT SOLOMON

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PSPMIN26-0005, Request for Minor Site Plan and Appearance Approval for Construction of Ground-Mounted Equipment Associated with the Installation of a Proposed Rooftop Solar Collection System for Cubesmart, L.P. (1042 S. Milwaukee Avenue).

RECOMMENDED ACTION: **Approve Docket No. PSPMIN26-0005,** granting minor site plan and appearance approval for the installation of a 600 kW rooftop solar collection system and associated ground-mounted equipment for the Cubesmart Self Storage facility, located at 1042 S. Milwaukee Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, Site Plan and Building Appearance Approval Requirements, and associated sections, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/4/2026; Equipment Specification Sheets; and Landscape Cost Estimate prepared by Atwell dated March 5, 2026; and subject to the following conditions:

1. Minor Site Plan and appearance approval is contingent upon approval of Docket No. PV25-0014, a variation to permit a decrease in the minimum required front yard setback from 25 feet to 8.4 feet for the installation of ground-mounted equipment.

2. A financial surety covering the cost of all landscape plant material and installation shall be submitted to the Community Development Department prior to the issuance of any Village permits. The amount will be based on the landscape cost estimate prepared by Atwell dated March 5, 2026.

3. Landscaping shall be installed concurrently with the project and shall be in general conformance with the Landscape Plans prepared by Atwell, last revised March 4, 2026.

4. The petitioner shall obtain a floodplain permit in conjunction with any Village construction permits.

5. No Village construction permits shall be issued until written authorization is received from the Illinois Department of Transportation (IDOT) to permit installation of a ComEd pole and any associated equipment within the Milwaukee Avenue right-of-way.

6. The height and location of the proposed utility poles shall be installed in accordance with all applicable FAA obstruction standards and any restrictions imposed by the Chicago Executive Airport to ensure no hazard to air navigation.

7. The petitioner shall complete the FAA Form 7460 Airspace Determination process and receive written authorization, as required by the Chicago Executive Airport, prior to receiving any Village permits.

8. The utility poles shall include aviation marking and/or lighting if required by the FAA or Chicago Executive Airport, now or in the future.

9. The petitioner shall coordinate with all applicable utility providers to ensure proper placement, clearances, and compliance with utility standards, including overhead and underground conflicts.

10. The installation shall not obstruct sightlines for vehicular or pedestrian traffic and shall comply with all applicable roadway safety standards.

EXECUTIVE SUMMARY

GENERAL PROPERTY INFORMATION

Petitioner: Solar Landscape LLC (604 Bangs Avenue ,Suite 301, Asbury Park, NJ 07712), on behalf of Cubesmart, L.P., property owner

Location: 1042 S. Milwaukee Avenue

Property size: 2.83 acres / 76,011 sq. ft. (buildings)

Neighboring Property Land Use(s):
North: Commercial
West: Industrial
South: Industrial/Commercial
East: Open Space (across S. Milwaukee Avenue)

Existing Use of Property: Public Storage Facility (Cubesmart)

Existing Zoning: B-3 (General Commercial and Office) and I-3 (General Industrial)

Comprehensive Plan Designation: Industrial

Zoning History:

- Docket #SCBA 05-45, approved 9/22/2005, granting approval of a freestanding sign.
- Ordinance No. 4538, approved 7/12/2010, granting a variation to permit a sign to exceed 100 sq. ft. due to the addition of an electronic message center (Docket #2010-15).
- Docket #SCBA 11-59, approved 11/17/2011, granting approval for a freestanding sign and awning sign.
- Docket #SCBA 17-20, approved 4/4/2017, granting an administrative approval of a freestanding sign face change.

SUMMARY OF REQUEST

The petitioner is requesting minor site plan and appearance approval for the installation of ground-mounted equipment associated with a proposed 600 kW rooftop solar collection system on the existing Cubesmart self-storage buildings located at 1042 S. Milwaukee Avenue.

In addition, the petitioner is seeking a variation to reduce the minimum required front yard setback from 25 feet to 8.4 feet to accommodate the proposed ground-mounted equipment (Docket No. PV25-0014).

Site Plan and Appearance Review

For the purposes of promoting compatible development and ensuring adequate public facilities, Site Plan and Appearance review and approval is required prior to issuance of a building permit or commencing use of land, except for single and two-family residences. Site Plan review only involves the static aspects of a site – layout, parking, landscaping, fencing, etc., and not the land use or operations of a business. Major Site Plan and Appearance review requires a concept review by the Village Board, a recommendation by the Commission, and a final decision by the Village Board. Minor Site Plan and Appearance review does not require a concept review and only requires a final decision by the Plan Commission.

The petitioner is proposing to install a 600 kW rooftop solar collection system on the existing self-storage buildings

at the subject site. Associated with the rooftop solar panels include the installation of ground-mounted equipment containing a 63-inch tall pad-mounted transformer, a point of interconnection consisting of a 3-foot tall pad-mounted single-bay switchgear, a 3-foot tall pad-mounted primary meter, and a new 40-foot tall ComEd utility pole. As proposed all the ground-mounted equipment will be located within the required 25-foot front yard setback along South Milwaukee Avenue. A proposed ComEd utility pole will be located east of the buildings, within the Milwaukee Avenue right-of-way, which is owned and maintained by the Illinois Department of Transportation (IDOT) and will require the petitioner to obtain written authorization from IDOT.

Landscaping: The petitioner's proposal includes landscaping along the east property line adjacent to Milwaukee Avenue to screen the ground-mounted equipment and utility infrastructure. The plan includes a mix of ornamental grasses, shrubs, and small deciduous and evergreen plantings arranged in a continuous buffer.

Plantings are clustered around the proposed transformer, switchgear, meter, and utility pole to soften views from the public right-of-way and provide year-round screening. Ornamental grasses will be used to fill in gaps and create a consistent planting bed, while shrubs and trees provide vertical screening and visual interest.

Height Exception: The maximum permitted height for accessory structures in the B-3 Zoning District is 20 feet. Pursuant to Section 19.03.060 of the Zoning Code, the Plan Commission may grant exceptions to height limitations for certain structures, including utility poles, as part of a site plan and appearance review. Accordingly, the petitioner is requesting approval of an exception to increase the maximum permitted height from 20 feet to 40 feet to accommodate the proposed utility pole.

Although the solar panels will be installed on the rooftops of the existing self-storage buildings, the associated ground-mounted equipment will be installed within the front yard (setback) along Milwaukee Avenue thus placing all impacts of this request within the public view. As a result, the petitioner is also seeking a variation to reduce the minimum required front yard setback from 25 feet to 8.4 feet to accommodate the ground-mounted equipment (Docket No. PV25-0014). As such, staff is not supportive of this request given all mechanical equipment should not be encouraged to be located in front yards and the associated visual impacts.

STAFF REVIEW

Fire Department Review: There are no comments related to the Minor Site Plan and Appearance Review.

Engineering Division Review: The Engineering Divisions comments have been incorporated into the conditions of approval.

Staff Recommended Action: Staff does not recommend approval of the minor site plan and appearance request.

In addition, the Plan Commission should consider whether to grant an exemption to the height limitation to permit an increase in the maximum permitted height from 20 feet to 40 feet to accommodate the proposed utility pole within the Milwaukee Avenue frontage.

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If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of minor site plan and appearance approval, the appropriate motion would be to:

Approve Docket No. PSPMIN26-0005, granting minor site plan and appearance approval for the installation of a 600 kW rooftop solar collection system and associated ground-mounted equipment for the Cubesmart Self Storage facility, located at 1042 S. Milwaukee Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, Site Plan and Building Appearance Approval Requirements, and associated sections, in accordance with the Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025; Plan Set prepared by Atwell, last revised 3/4/2026; Equipment Specification Sheets; and Landscape Cost Estimate prepared by Atwell dated March 5, 2026; and subject to the following conditions:

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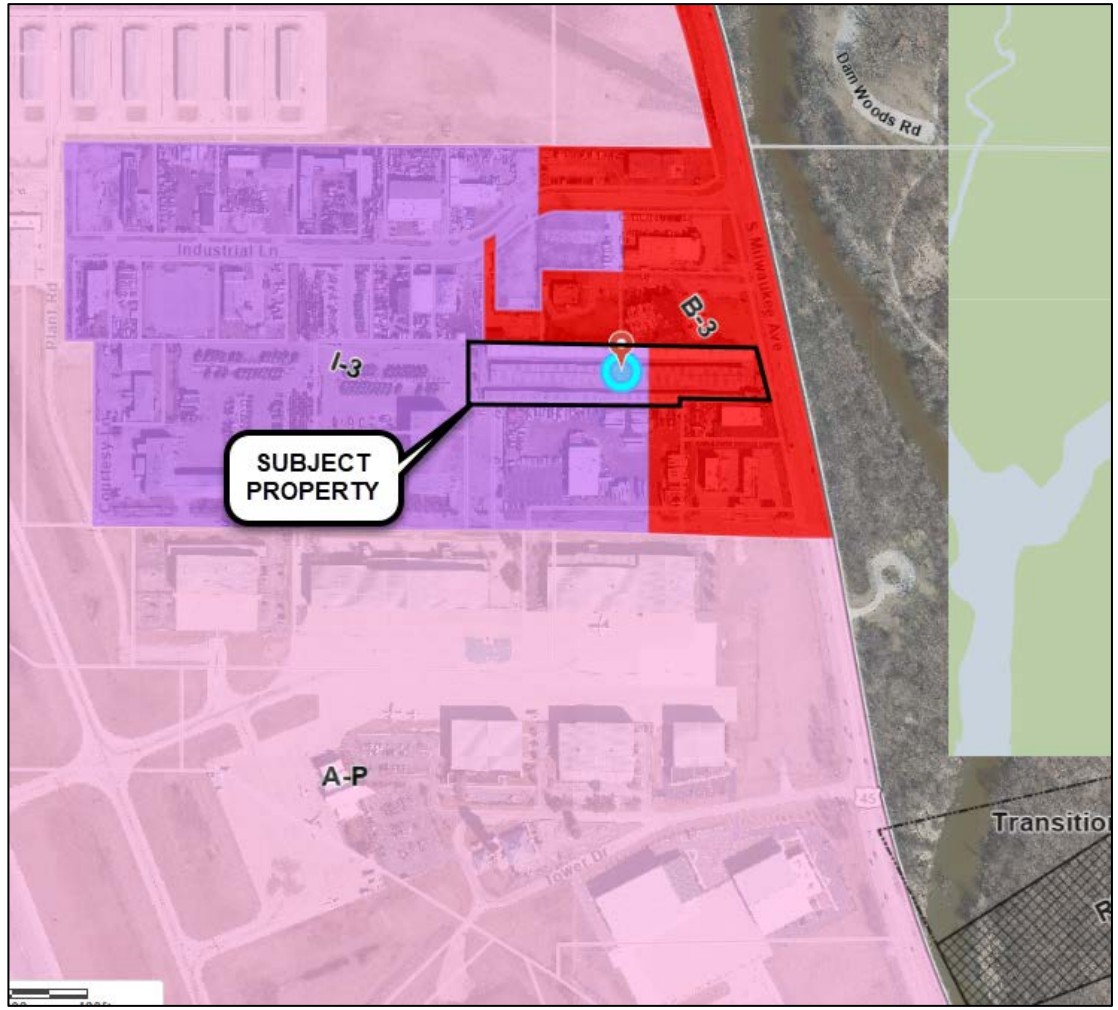
ATTACHMENTS:

Attachments to Staff Report (Staff)
Project Description Letter prepared by Solar Landscape, received by the Village 10/27/2025
Plan Set prepared by Atwell, last revised 3/4/2026
Equipment Specification Sheets
Landscape Cost Estimate prepared by Atwell dated March 5, 2026



LOCATION MAP



ZONING MAP



Photo of Project Area Facing North

Received 10/27/2025

601 Bangs Ave, Suite 301
Asbury Park, NJ 07712
O. 844.765.2769
SOLARLANDSCAPE.COM

Project Narrative
1042 S Milwaukee Ave, Wheeling, IL

(1) Owner and/or developer's name, phone number and address;

DEVELOPER

SOLAR LANDSCAPE LLC

601 BANGS AVENUE, SUITE 301

ASBURY PARK, NJ 07712

PHONE: (856) 437-9711

CONTACT: EMILY MCCUE

PROPERTY OWNER

CUBESMART L.P.

5 OLD LANCASTER RD

MALVERN, PA 19355

PHONE: 610-535-5407

CONTACT: ANDREA PRUDENTE

(2) Where applicable, the architect's or engineer's name, phone number and address;

CIVIL ENGINEER

ATWELL, LLC

1250 EAST DIEHL ROAD, SUITE 300

NAPERVILLE, IL 60563

PHONE: (630) 577-0800

FAX: (630) 577-0900

CONTACT: MICHAEL KEITH, P.E.

(3) Description of all proposed buildings indicating proposed uses and building size;

N/A – no new buildings proposed

Proposed Use of Existing Buildings:

Installation of a 600 kW AC rooftop community solar array on existing Cubesmart buildings on the property located at 1042 S Milwaukee Ave, Wheeling, IL.

(4) Descriptions of the location, type and size of all outside signs;

No proposed monument signs. Only regulatory signs (i.e. WARNING: TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE THIS PANEL or any required regulatory signs/labels needed for the equipment).

(5) Calculations indicating the total site size, building floor area, number of parking spaces, amounts of impervious surfaces, and amount of nonimpervious green space.

N/A – no revisions to the existing property/structures

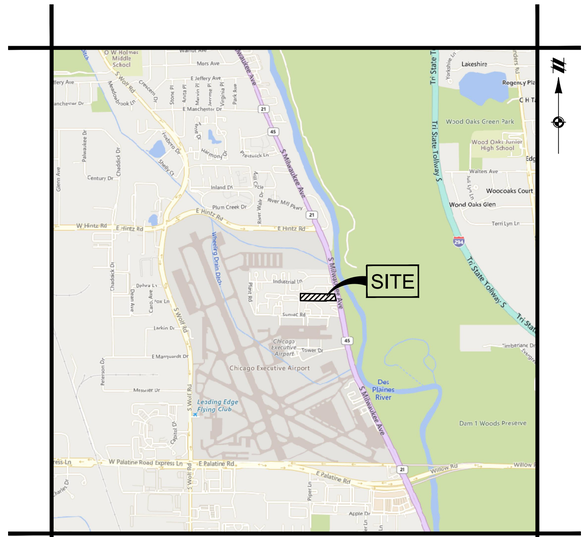
Existing Features On-Site:

- Site Area: 2.83 Acres
- Gross Floor Area of Existing Building footprints: 76,011 square feet.
- 2 marked existing parking spaces.
- Existing Impervious Area: 2.77 Acres
- Existing Non-Impervious Area: 0.06 Acres

CS IL 1042 MILWAUKEE AVE

1042 SOUTH MILWAUKEE AVENUE
WHEELING, COOK COUNTY, ILLINOIS

SPECIAL USE PERMIT PLANS


SITE
Lakeshire
Regency Plz
Wood Oaks Green Park
Wood Oaks Junior High School
Woocoaks Court
Wood Oaks Glen
Tri State Tollway
Chicago Executive Airport
Des Plaines River
Dam 1 Woods Preserve
Leading Edge Flying Club
W Palatine Road Express Ln
E Palatine Rd
Willow Rd
S Milwaukee Ave
N Milwaukee Ave
E Hintz Rd
W Hintz Rd
E Jeffery Ave
E Manchento Dr
Plum Creek Dr
Inland Dr
Century Dr
Chadsford Dr
Dahra Ln
Yoe Ln
Larkin Dr
E Marrywoods Dr
Missouri Dr
Sunset Rd
Tower Dr
Industrial Dr
Timberlane Dr
Apple Dr
Pierce Ln
Wood Rd
Quincy Ct
Thelma Dr
Pamela Dr
Fairbanks Dr
Gavin Ave
Mars Ave
Stone Pl
Pine Ave
Spring Ave
Hillcrest Ave
Meadow Ln
Cherry Ln
Cypress Ln
Sunset Ln
Lexington Ln
Century Ln
Jeffery Ln
Wagner Ln
Wagner Dr
Wagner Pl
Wagner Ct
Wagner Cir
Wagner Rd
Wagner Ave



LEGEND

- BOUNDARY LINE
- EXISTING SETBACK LINE
- ZONING SPLIT LINE
- EXISTING BUILDING

EXISTING CONDITIONS BASED ON ALTA/ACSM LAND TITLE SURVEY BY JLH LAND SURVEYING INC. 09/21/2009.

LEGAL DESCRIPTION:

THAT PART OF THE SOUTH 1320.00 FEET OF THE NORTH 1/2 OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH 132.0 FEET OF THE SOUTH 1320.0 FEET OF THE NORTH 1/2 OF SECTION 13 AND THE CENTERLINE OF MILWAUKEE AVENUE; THENCE WEST ON SAID SOUTH LINE OF THE NORTH 132.0 FEET OF THE SOUTH 1320.0 FEET OF THE NORTH 1/2 OF SECTION 13, A DISTANCE OF 831.35 FEET; THENCE SOUTH ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE LEFT OF THE LAST DESCRIBED COURSE, A DISTANCE OF 460.0 FEET; THENCE EAST ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE LEFT OF THE LAST DESCRIBED COURSE, A DISTANCE OF 581.35 FEET; THENCE NORTH ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE LEFT OF THE LAST DESCRIBED COURSE, A DISTANCE OF 910.0 FEET; THENCE EAST ALONG A STRAIGHT LINE MAKING AN ANGLE OF 90 DEGREES TO THE RIGHT OF THE LAST DESCRIBED COURSE TO THE CENTERLINE OF MILWAUKEE AVENUE; THENCE NORTHWESTERLY ALONG SAID CENTERLINE OF MILWAUKEE AVENUE TO THE POINT OF BEGINNING;

(EXCEPT THE SOUTH 299.72 FEET OF THE WEST 581.35 FEET THEREOF;
AND ALSO EXCEPTING THEREFROM THAT PART TAKEN FOR HIGHWAY PURPOSES ACCORDING TO THE CONDEMNATION PROCEEDINGS IN CASE NO. 94L50965, FILED IN THE CIRCUIT COURT OF COOK COUNTY, ILLINOIS)

SAID LAND ALSO DESCRIBED AS FOLLOWS:

THAT PART OF THE SOUTH 1320.00 FEET OF THE NORTH 1/2 OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH 132.0 FEET OF THE SOUTH 1320.0 FEET OF SAID NORTH 1/2 OF SECTION 13 AND THE WEST RIGHT-OF-WAY LINE OF MILWAUKEE AVENUE; THENCE SOUTH 12 DEGREES, 24 MINUTES, 12 SECONDS EAST, A DISTANCE OF 154.07 FEET; THENCE NORTH 89 DEGREES, 12 MINUTES, 42 SECONDS WEST, A DISTANCE OF 218.40 FEET; THENCE SOUTH 00 DEGREES, 47 MINUTES, 18 SECONDS EAST, A DISTANCE OF 210.28 FEET; THENCE NORTH 89 DEGREES, 12 MINUTES, 42 SECONDS WEST, A DISTANCE OF 581.35 FEET; THENCE NORTH 00 DEGREES, 47 MINUTES, 18 SECONDS WEST, A DISTANCE OF 581.35 FEET; THENCE SOUTH 89 DEGREES, 12 MINUTES, 42 SECONDS EAST, A DISTANCE OF 764.59 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

SCALE IN FEET
0 40 80 120 200

811 Know what's **below.** **Call** before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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NAPERVILLE, IL 60563
630.577.8800
DESIGN FIRM #184005876-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1042 MILWAUKEE AVE
1042 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
EXISTING CONDITIONS PLAN

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
2026/03/04
REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO.
C02.0

NOT FOR CONSTRUCTION

I:\2025\25000706\CAD\PLAN SET\SUP2 PRELIMINARY\25000706-SUP2-EXISTING CONDITIONS PLAN 3-4-2026 8:41 AM ALEX WANDEL



LEGEND

- BOUNDARY LINE
- EXISTING SETBACK LINE
- ZONING SPLIT LINE
- UNDERGROUND ELECTRIC LINE
- EXISTING BUILDING

SITE DATA

PIN:	03-13-200-018
JURISDICTION:	VILLAGE OF WHEELING, IL
ZONING DISTRICT:	B-3 (GENERAL COMMERCIAL AND OFFICE DISTRICT) AND I-3 (GENERAL INDUSTRIAL DISTRICT)
CURRENT LAND USE:	STORAGE FACILITY
PARCEL AREA:	± 2.84 ACRES

FEMA FLOOD HAZARD: ZONE X AND ZONE AE PER FIRM MAP #17031C0207J DATED 8/19/2008.

GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
3. LIMITS OF WORK SHALL BE EROSION CONTROL BARRIERS AS INDICATED ON DRAWINGS.
4. ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.
5. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
6. EXISTING TREES AND SHRUBS SHALL NOT BE CLEARED, UNLESS OTHERWISE NOTED.
7. FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

ZONING DISTRICT:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS THAT MAY BE PROMULGATED BY THE COOK COUNTY PLANNING AND DEVELOPMENT DEPARTMENT, SOIL AND WATER CONSERVATION DISTRICT, AND MUNICIPAL AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, SECURING AND COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AS ADMINISTERED BY THE STATE ENVIRONMENTAL PROTECTION AGENCY.

LAYOUT AND MATERIALS NOTES:
1. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN SITE PLAN DIMENSIONS AND BUILDING PLANS BEFORE PROCEEDING WITH ANY PORTION OF SITE WORK WHICH MAY BE AFFECTED SO THAT PROPER ADJUSTMENTS TO THE SITE LAYOUT CAN BE MADE IF NECESSARY.
4. PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

ZONING REQUIREMENTS

ZONING DISTRICT: B-3

REQUIRED SETBACKS FOR GROUND EQUIPMENT:

YARD	REQUIRED	PROPOSED
FRONT / STREETS:	25 FT.	8.4 FT. *
SIDE:	15 FT.	17.9 FT. *

ZONING DISTRICT: I-3

REQUIRED SETBACKS FOR GROUND EQUIPMENT:

YARD	REQUIRED	PROPOSED
REAR:	N/A	N/A
SIDE:	N/A	N/A

*ALL GROUND EQUIPMENT IS LOCATED WITHIN THE SETBACK(S). VARIANCE IS REQUESTED.

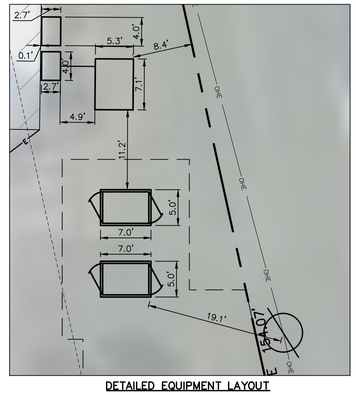
FEMA REGULATORY FLOODWAY NOT ON PROPOSED SITE. SITE IS SPLIT BETWEEN ZONE AE AND ZONE X.

FLOODPLAIN NOTES

1.) FLOODPLAIN ELEVATION ON PROPERTY NEAREST TO THE IMPROVEMENTS IS 636.6 IN NGVD 29 (640.2 NAVD 88).

2.) ANY ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE THE BASE FLOOD ELEVATION (636.6) OR FLOOD PROOFED.

3.) AS-BUILT DRAWINGS WILL BE REQUIRED TO FINALIZE THE FLOODPLAIN PERMIT. THE AS-BUILT DRAWINGS SHOULD INCLUDE LOCATION OF UNDERGROUND CONDUIT AND ELEVATION OF ELECTRICAL EQUIPMENT IN RELATION TO THE BASE FLOOD ELEVATION.



DETAILED EQUIPMENT LAYOUT
SCALE 1"=10'

SCALE IN FEET
0 40 80 120 200

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CS IL 1042 MILWAUKEE AVE
1042 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
SITE LAYOUT PLAN

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
2026/03/04
REVISIONS PER VILLAGE

DR. AMW | CH. MBK
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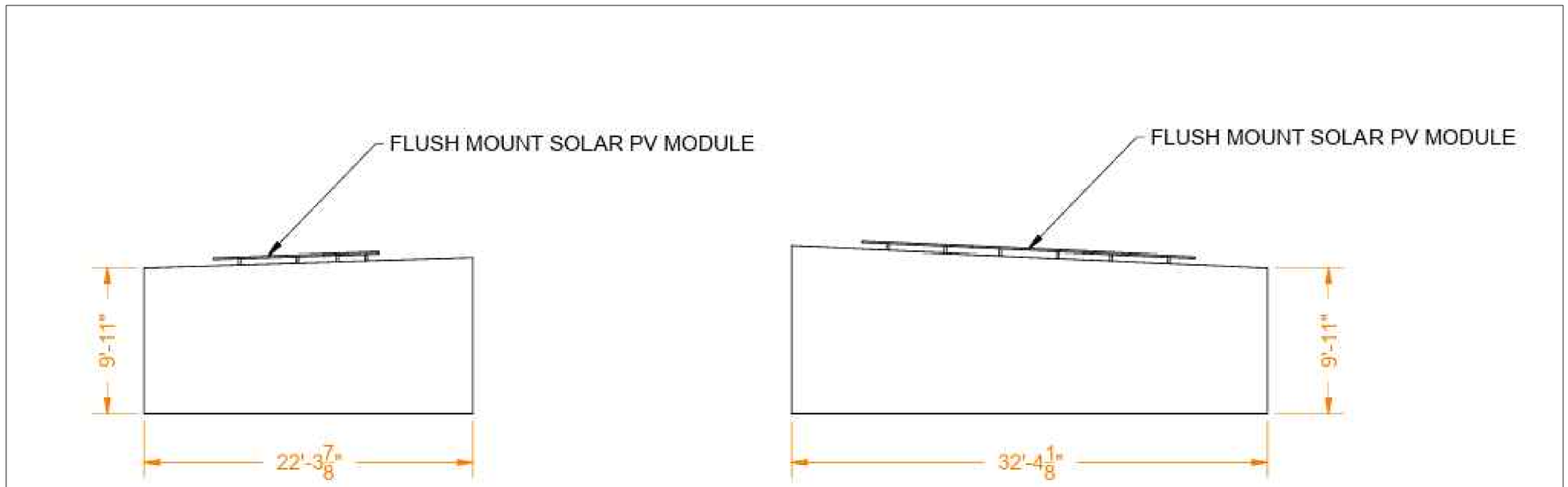
SHEET NO.
C03.0



TYPICAL BUILDING SECTION

NOT TO SCALE

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CS IL 1042 MILWAUKEE AVE
1042 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
STANDARD NOTES AND DETAILS

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

REVISIONS
2025/08/05
REVISIONS PER CLIENT
2025/12/17
REVISIONS PER CLIENT & VILLAGE
2026/03/04
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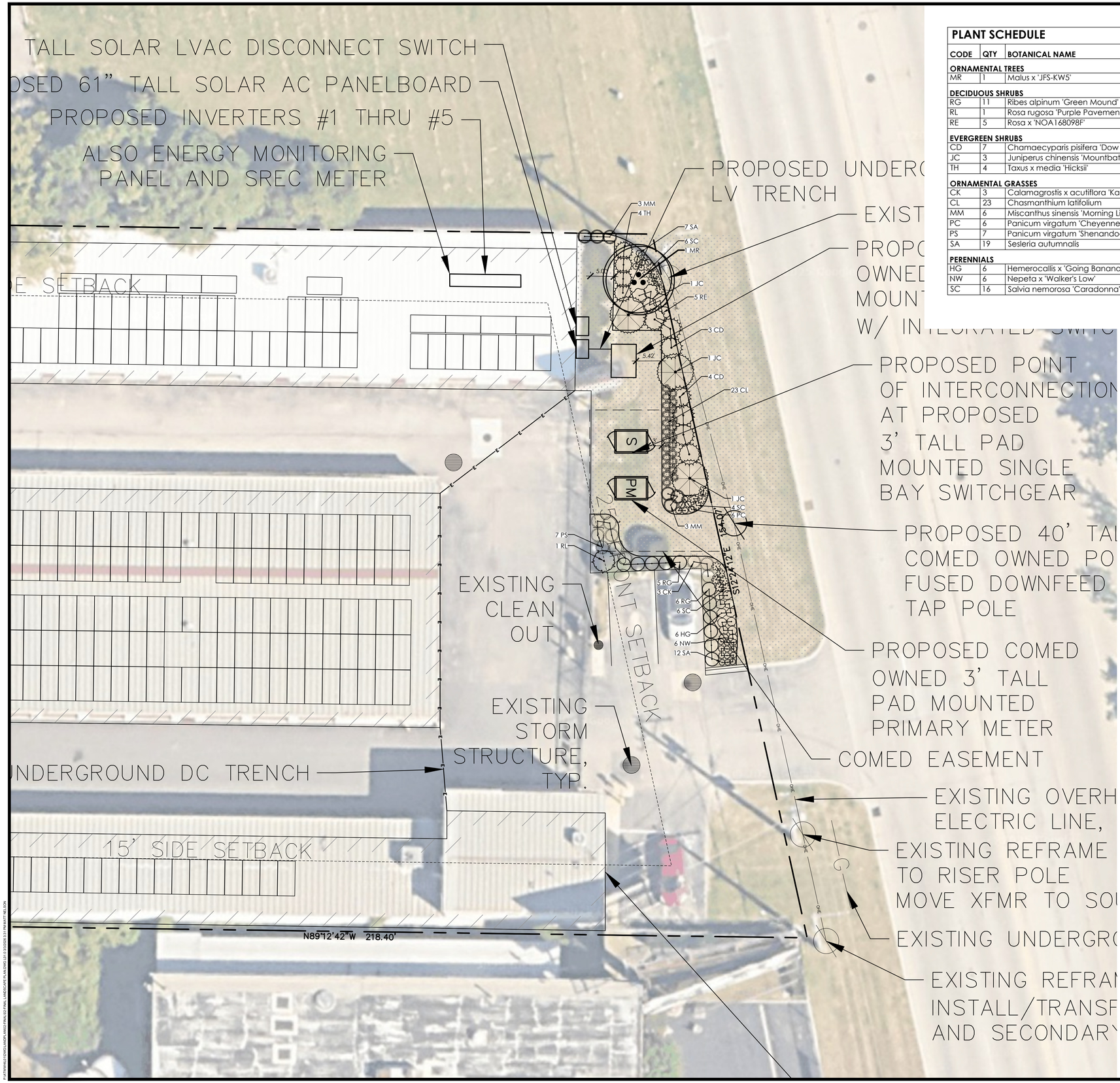
DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO.
C04.0



PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS
ORNAMENTAL TREES						
MR	1	Malus x 'JFS-KW5'	Royal Raindrops® Crabapple	2" Cal.	B&B	
DECIDUOUS SHRUBS						
RG	11	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	5 gal.	Pot	
RL	1	Rosa rugosa 'Purple Pavement'	Purple Pavement Rose	5 gal.	Pot	
RE	5	Rosa x 'NOA168098F'	Flower Carpet® Pink Supreme Groundcover Rose	3 gal.	Pot	
EVERGREEN SHRUBS						
CD	7	Chamaecyparis pisifera 'Dow Whiting'	Soft Serve® Sawara Cypress	5 gal.	Pot	
JC	3	Juniperus chinensis 'Mountbatten'	Mountbatten Juniper	5` Ht.	B&B	
TH	4	Taxus x media 'Hicksii'	Hicks Anglo-Japanese Yew	4` Ht.	B&B	
ORNAMENTAL GRASSES						
CK	3	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	Pot	
CL	23	Chasmanthium latifolium	Northern Sea Oats	1 gal.	Pot	
MM	6	Miscanthus sinensis 'Morning Light'	Morning Light Eulalia Grass	1 gal.	Pot	
PC	6	Panicum virgatum 'Cheyenne Sky'	Cheyenne Sky Prairie Winds® Switch Grass	1 gal.	Pot	
PS	7	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 gal.	Pot	
SA	19	Sesleria autumnalis	Autumn Moor Grass	1 gal.	Pot	
PERENNIALS						
HG	6	Hemerocallis x 'Going Bananas'	Going Bananas Daylily	1 gal.	Pot	
NW	6	Nepeta x 'Walker's Low'	Walker's Low Catmint	1 gal.	Pot	
SC	16	Salvia nemorosa 'Caradonna'	Cardonna Meadow Sage	1 gal.	Pot	

LICENSED LANDSCAPE ARCHITECT
JAMES MATTHEW NELSON
157-001644
STATE OF ILLINOIS
SEAL Date: 03/02/26

James Matthew Nelson, ASLA, PLA, LEED
Illinois Registered Landscape Architect
157-001644
Expires 08/31/2027

GROUNDCOVER SCHEDULE

TURF - RESTORE AS NEEDED — 2,584 sf

NOTE: ORNAMENTAL GRASSES TO BE CUT BACK IN EARLY SPRING. LEAVE THROUGH WINTER FOR SCREENING BENEFITS.

LEGEND

- BOUNDARY LINE
- EXISTING SETBACK LINE
- ZONING SPLIT LINE
- UNDERGROUND ELECTRIC LINE
- EXISTING BUILDING

SITE DATA

PIN: 03-13-200-018
JURISDICTION: VILLAGE OF WHEELING, IL
ZONING DISTRICT: B-3 (GENERAL COMMERCIAL AND OFFICE DISTRICT) AND I-3 (GENERAL INDUSTRIAL DISTRICT)
CURRENT LAND USE: STORAGE FACILITY
PARCEL AREA: ± 2.84 ACRES

FEMA FLOOD HAZARD: ZONE X AND ZONE AE PER FIRM MAP #17031C0207J DATED 8/19/2008.

ZONING REQUIREMENTS

ZONING DISTRICT: B-3

REQUIRED SETBACKS:

YARD	REQUIRED	PROPOSED
FRONT / STREETS (PANELS):	25 FT.	27.2 FT.
FRONT / STREETS (EQUIPMENT):	25 FT.	8.4 FT. *
SIDE (PANELS):	15 FT.	4.2 FT. **
SIDE (EQUIPMENT):	15 FT.	1.6 FT. *

ZONING DISTRICT: I-3

REQUIRED SETBACKS:

YARD	REQUIRED	PROPOSED
REAR (PANELS):	17 FT.	18.3 FT.
REAR (EQUIPMENT):	N/A	N/A
SIDE (PANELS):	17 FT.	4.2 FT. **
SIDE (EQUIPMENT):	N/A	N/A

*ALL GROUND EQUIPMENT IS LOCATED WITHIN THE SETBACK(S). VARIANCE IS REQUESTED.

**THERE ARE SOME PANELS WITHIN THE SETBACK(S) ACROSS THE SITE. VARIANCE IS REQUESTED. SEE PLANS FOR PANELS WITHIN THE SETBACK(S).

FEMA REGULATORY FLOODWAY NOT ON PROPOSED SITE. SITE IS SPLIT BETWEEN ZONE AE AND ZONE X.

SCALE IN FEET
0 10 20 30 50

Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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DESIGN FIRM #184005976-0010

SECTION 13
TOWNSHIP 42 NORTH, RANGE 11 EAST
WHEELING TOWNSHIP
COOK COUNTY, ILLINOIS

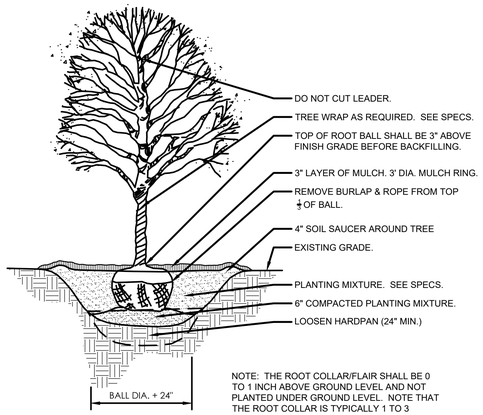
ATTRIBUTE
SOLAR LANDSCAPE LLC
CS IL 1042 MILWAUKEE AVE
1042 S. MILWAUKEE AVE, WHEELING, IL 60090
SPECIAL USE PERMIT PLANS
LANDSCAPE PLAN

NOT FOR CONSTRUCTION

DATE
AUGUST 5, 2025

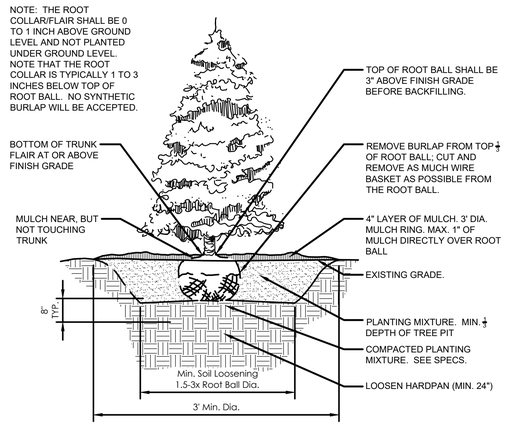
REVISIONS
2025/09/05 REVISIONS PER CLIENT
2025/12/12 REVISIONS PER CLIENT & VILLAGE
2026/03/04 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO. L01.0



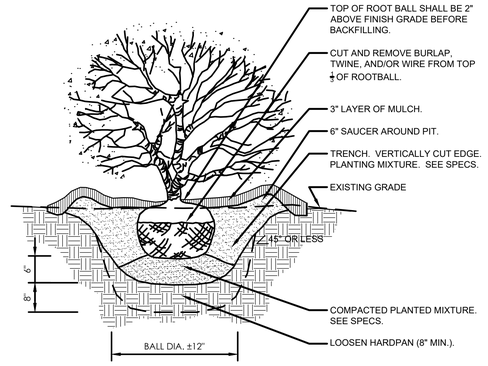
1 DECIDUOUS TREE PLANTING

1/4" = 1'-0" 329343.33-20



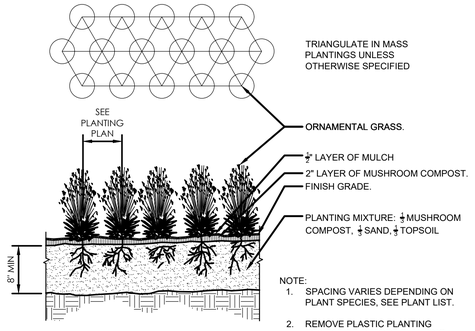
2 CONIFER TREE PLANTING- ANSI A300

1/4" = 1'-0" 329343.23-01



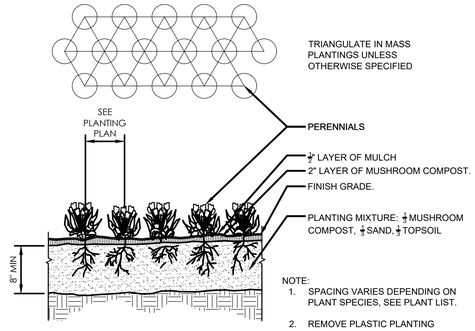
3 SHRUB PLANTING DETAIL

3/4" = 1'-0" 329333.16-05



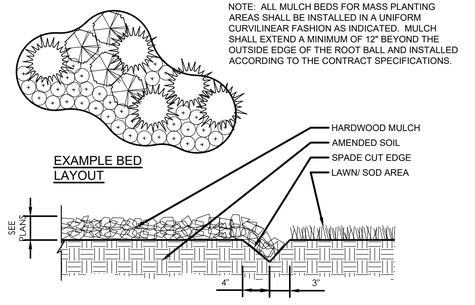
4 ORNAMENTAL GRASS PLANTING

1" = 1'-0" 329313-01



5 PERENNIAL / ANNUAL PLANTING

1" = 1'-0" 329313-02



6 CONTINUOUS MULCH EDGING

1" = 1'-0" 329113.26-01

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LANDSCAPE DETAILS

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2026/03/04 REVISIONS PER VILLAGE

DR. AMW | CH. MBK
P.M. M. KEITH
JOB 25000706
SHEET NO. L02.0

J:\ATWELL\25000706\CAD\PLANS\2025 FINAL LANDSCAPE PLANS\L02 FINAL LS DETAILS 8.5.2025.DWG 8.5.2025 8:51:19 AM MATT NELSON

GENERAL PLANTING SPECIFICATIONS:

PART 1 - GENERAL

1-01 DESCRIPTION:

A. PROVIDE TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS AS SHOWN AND SPECIFIED. THIS WORK INCLUDES:
   1. SPREADING OF TOPSOIL OR SOIL PREPARATION
   2. TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS
   3. PLANTING MIXES
   4. MULCH AND PLANTING ACCESSORIES
   5. FERTILIZER AND HERBICIDE
   6. MAINTENANCE
   7. WARRANTY OF PLANT MATERIAL

B. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND REPORT ANY DISCREPANCIES TO THE OWNER OR HIS/HER REPRESENTATIVE.

1-02 QUALITY ASSURANCE:

A. COMPLY WITH SITE WORK REQUIREMENTS

B. PLANT NAMES INDICATED MUST COMPLY WITH 'STANDARDIZED PLANT NAMES' AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES WHICH ARE NOT LISTED SHOULD CONFORM WITH THOSE GENERALLY ACCEPTED BY THE NURSERY TRADE. STOCK SHOULD BE LEGIBLY TAGGED.

C. ALL PLANT MATERIALS SHALL CONFORM TO THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS), LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON, D.C.

D. ALL PLANT MATERIAL SHALL BE GROWN AND SUPPLIED WITHIN A 50 MILE RADIUS OF THE PROJECT FOR A MINIMUM OF TWO FULL GROWING SEASONS.

E. ADHERE TO SIZING REQUIREMENTS AS LISTED IN THE PLANT LIST AND/OR BID FORM FOR THE PROJECT. A PLANT SHALL BE MEASURED IN ITS NATURAL STANDING POSITION.

F. STOCK THAT IS FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE SHOWN. WITH PERMISSION OF THE LANDSCAPE ARCHITECT, SUBSTITUTION FROM THE SPECIFIED PLANT LIST WILL BE ACCEPTED ONLY WHEN SATISFACTORY EVIDENCE IN WRITING IS SUBMITTED TO THE LANDSCAPE ARCHITECT, SHOWING THAT THE PLANT SPECIFIED IS NOT AVAILABLE. REQUESTS FOR APPROVAL OF SUBSTITUTE PLANT MATERIAL SHALL INCLUDE COMMON AND BOTANICAL NAMES AND SIZE OF SUBSTITUTE MATERIAL. ONLY THOSE SUBSTITUTIONS OF AT LEAST EQUIVALENT SIZE AND CHARACTER TO THAT OF THE SPECIFIED MATERIAL WILL BE APPROVED. STOCK WHICH IS LARGER THAN THAT WHICH IS SPECIFIED IS ACCEPTABLE WITH PERMISSION OF THE LANDSCAPE ARCHITECT, PROVIDING THERE IS NO ADDITIONAL COST AND THAT THE LARGER PLANT MATERIAL WILL NOT BE CUT DOWN IN ORDER TO CONFORM TO THE SIZE INDICATED.

G. ALL SHRUBS SHALL BE DENSE IN FORM. SHRUB LINERS DO NOT MEET THESE SPECIFICATIONS. SHRUBS SPECIFIED BY HEIGHT SHALL HAVE A SPREAD THAT IS EQUAL TO THE HEIGHT MEASUREMENT. SHRUBS WHICH ARE SPECIFIED BY SPREAD SHALL EXHIBIT THE NATURAL GROWTH HABIT OF THE PLANT BY HAVING A GREATER SPREAD THAN HEIGHT.

H. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO SELECT AND TAG ALL PLANT MATERIAL AT THE NURSERY PRIOR TO PLANTING. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO INSPECT PLANT MATERIAL FOR SIZE AND CONDITION OF ROOT SYSTEMS, THE PRESENCE OF INSECTS AND DISEASES, INJURIES AND LATENT DEFECTS (DUE TO CONTRACTOR NEGLIGENCE OR OTHERWISE), AND TO REJECT UNACCEPTABLE PLANT MATERIAL AT ANY TIME DURING PROGRESS OF THE PROJECT.

I. CONTAINER GROWN DECIDUOUS AND/OR EVERGREEN SHRUBS WILL BE ACCEPTABLE IN LIEU OF BALLED AND BURLAPPED SHRUBS SUBJECT TO SPECIFIED LIMITATIONS FOR CONTAINER GROWN STOCK. SIZE OF CONTAINER GROWN MATERIAL MUST CONFORM TO SIZE/HEIGHT REQUIREMENTS OF PLANT LIST.

1-03 DELIVERY, STORAGE & HANDLING:

A. FERTILIZER SHALL BE DELIVERED IN ORIGINAL, UNOPENED AND UNDAMAGED PACKAGING. CONTAINERS SHALL DISPLAY WEIGHT, ANALYSIS AND MANUFACTURER'S NAME. STORE FERTILIZER IN A MANNER THAT WILL PREVENT WETTING AND DETERIORATION.

B. TAKE ALL PRECAUTIONS CUSTOMARY CONCERNING PROPER TRADE PRACTICE IN PREPARING PLANTS FOR TRANSPORT. PLANTS SHALL BE DUG, PACKED AND TRANSPORTED WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE LANDSCAPE ARCHITECT . ALL PLANTS MUST BE PROTECTED FROM DRYING OUT. IF PLANT MATERIAL CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, SAID MATERIAL SHOULD BE PROPERLY PROTECTED IN A MANNER THAT IS ACCEPTABLE TO THE LANDSCAPE ARCHITECT . HEELED-IN PLANTS MUST BE WATERED DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD STRIP BARK OR BREAK OR SHEAR BRANCHES.

C. PLANT MATERIAL TRANSPORTED ON OPEN VEHICLES SHOULD BE COVERED WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.

D. DRY, LOOSE TOPSOIL SHALL BE PROVIDED FOR PLANTING BED MIXES. MUDDY OR FROZEN TOPSOIL IS UNACCEPTABLE AS WORKING WITH MEDIUM IN THIS CONDITION WILL DESTROY ITS STRUCTURE, MAKING ROOT DEVELOPMENT MORE DIFFICULT.

1-04 PROJECT CONDITIONS:

A. NOTIFY LANDSCAPE ARCHITECT AT LEAST SEVEN (7) WORKING DAYS PRIOR TO INSTALLATION OF PLANT MATERIAL.

B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING ABOVE AND BELOW GROUND UTILITIES. UTILITIES CAN BE LOCATED AND MARKED (IN ILLINOIS) BY CALLING J.U.L.I.E. AT (800)892-0123.

C. THE CONTRACTOR SHALL PROVIDE, AT HIS/HER OWN EXPENSE, PROTECTION AGAINST TRESPASSING AND DAMAGE TO SEEDED AREAS, PLANTED AREAS, AND OTHER CONSTRUCTION AREAS UNTIL THE PRELIMINARY ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE BARRICADES, TEMPORARY FENCING, SIGNS, AND WRITTEN WARNING OR POLICING AS MAY BE REQUIRED TO PROTECT SUCH AREAS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE OWNER AFTER SUCH WARNING HAS BEEN ISSUED.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CROWNS, TRUNKS AND ROOTS OF EXISTING TREES, PLUS SHRUBS, LAWNS, PAVED AREAS AND OTHER LANDSCAPED AREAS THAT ARE TO REMAIN INTACT. EXISTING TREES, WHICH MAY BE SUBJECT TO CONSTRUCTION DAMAGE, SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED. THE OWNER DESIRES TO PRESERVE THOSE TREES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION EXCEPT THOSE SPECIFICALLY INDICATED TO BE REMOVED ON THE DRAWINGS. THE CONTRACTOR SHALL ERECT PROTECTIVE TREE FENCING AND TREE ARMOR AT LOCATIONS INDICATED ON THE DRAWINGS AND AROUND ALL TREES ON SITE WHICH ARE TO BE PRESERVED. PROTECTIVE FENCING SHALL BE ERECTED BETWEEN THE LIMITS OF CONSTRUCTION AND ANY TREE PRESERVATION AREAS SHOWN ON THE DRAWINGS.

E. A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF SIZES, QUANTITIES AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS AND ON THE BID FORM. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.

1-05 PRELIMINARY ACCEPTANCE:

A. ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS/HER REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO: MOWING AND EDGING TURF, PULLING WEEDS, WATERING TURF AND PLANT MATERIAL AND ANNUAL FLOWER MAINTENANCE.

1-06 WARRANTY:

A. ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE WARRANTEED FOR ONE (1) YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS/HER REPRESENTATIVE. PLANT MATERIALS WILL BE WARRANTEED AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. THE WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

PART 2 - PRODUCTS

2-01 PLANT MATERIALS:

A. PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. ONLY SOUND, HEALTHY, VIGOROUS PLANTS WHICH ARE FREE FROM SUNSCALD INJURIES, DISFIGURING KNOTS, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION SHALL BE PROVIDED. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN PATCHES.
   1. BALLED AND BURLAPPED PLANTS SHALL HAVE A FIRM NATURAL BALL OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS A ROOT SYSTEM NECESSARY FOR A FULL RECOVERY OF THE PLANT. ROOT BALL SIZES SHALL COMPLY WITH THE LATEST EDITION OF THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS). ROOT BALLS THAT ARE CRACKED OR MUSHROOMED ARE UNACCEPTABLE.
   2. CONTAINER GROWN STOCK SHOULD BE GROWN FOR AN AMOUNT OF TIME THAT IS OF SUFFICIENT LENGTH FOR THE ROOT SYSTEM TO HAVE DEVELOPED ENOUGH TO HOLD ITS SOIL TOGEHTER, FIRM AND WHOLE. PLANTS WILL NOT BE LOOSE IN THEIR CONTAINERS, NOR SHALL THEY BE POT-BOUND AND ALL CONTAINER GROWN STOCK WILL COMPLY WITH THE SIZES STATED ON THE PLANT LIST.
   3. NO EVIDENCE OF WOUNDS OR PRUNING CUTS SHALL BE ALLOWED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
   4. EVERGREEN TREES SHALL BE BRANCHED TO THE GROUND. THE HEIGHT OF EVERGREEN TREES ARE DETERMINED BY MEASURING FROM THE GROUND TO THE FIRST LATERAL BRANCH CLOSEST TO THE TOP. HEIGHT AND/OR WIDTH OF OTHER TREES ARE MEASURED BY THE MASS OF THE PLANT NOT THE VERY TIP OF THE BRANCHES.
   5. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND/OR HEIGHT INDICATED IN THE PLANT LIST. THE HEIGHT MEASUREMENT SHALL BE TAKEN FROM GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT, NOT THE LONGEST BRANCH. SINGLE STEM OR THIN PLANTS WILL NOT BE ACCEPTED. SIDE BRANCHES SHALL BE FLUSHED WITH GROWTH AND HAVE GOOD FORM TO THE GROUND. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES OR OTHER ROOT OR BRANCH INJURIES.

2-02 ACCESSORIES:

A. TOPSOIL:
   1. TOPSOIL SHALL BE FERTILE, NATURAL TOPSOIL OF A LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL. TOPSOIL SHALL BE REASONABLY FREE FROM CLAY, LUMPS, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIALS WITH A PH BETWEEN 6.5 TO 7.0.

B. TOPSOIL FOR SEED AREAS SHALL BE A MINIMUM OF 6".

C. SOIL AMENDMENTS SHALL BE AS FOLLOWS:
   1. FOR TREES AND SHRUBS THE PLANT PIT WILL BE BACKFILLED WITH PULVERIZED BLACK DIRT.
   2. FOR PERENNIALS AND ORNAMENTAL GRASSES THE SOIL MIXTURE WILL BE AS FOLLOWS: CM-63 GENERAL PURPOSE PEAT BASED MIX AS SUPPLIED BY MIDWEST TRADING. TOP BEDS WITH 8" OF CM-63 AND TILL INTO EXISTING BEDS TO A DEPTH OF 8". SOIL MIXTURES ARE AVAILABLE FROM MIDWEST TRADING. MIDWEST TRADING, ST. CHARLES, IL 60174 (630) 365-1990

D. FERTILIZER:
   1. FOR TREES AND SHRUBS USE: 14-4-6 BRIQUETTES 17 G OR EQUIVALENT AVAILABLE FROM ARTHUR CLESEN, INC. FOLLOW MANUFACTURER'S RECOMMENDATION FOR APPLICATION. ARTHUR CLESEN, INC. 543 DIENS DRIVE, WHEELING, IL 60090 (847)537-2177
   2. FOR TURF AREAS USE 6-24-16 CLESEN FAIRWAY WITH MICRONUTRIENTS WITH MINOR ELEMENTS 3.0 % S, .02% B, .05% CU, 1.0% FE, .0006% MO, .10% MN AVAILABLE FROM ARTHUR CLESEN OR APPROVED EQUAL.

E. HERBICIDE:
   1. ROUND-UP OR APPROVED EQUAL

F. MULCH:
   1. BARK MULCH SHALL BE FINELY SHREDDED HARDWOOD BARK WHICH HAS BEEN SCREENED AND IS FREE OF ANY GREEN FOLIAGE, TWIGS, ROCKS, SAWDUST, WOOD SHAVINGS, GROWTH OR GERMINATION INHIBITING INGREDIENTS, OR OTHER FOREIGN MATERIALS. BARK MULCH IS AVAILABLE FROM MIDWEST TRADING.
   2. MUSHROOM COMPOST AS AVAILABLE FROM MIDWEST TRADING.

G. WATER:
   1. WATER SERVICE WILL BE AVAILABLE ON THE SITE, WITH THE COST OF WATER BEING PAID BY THE OWNER. TRANSPORTING OF THE WATER FROM THE SOURCE TO THE WORK AREAS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ALL NECESSARY HOSE, PIPING, TANK TRUCK, ETC. SHALL BE SUPPLIED BY THE LANDSCAPE CONTRACTOR.

H. GUYING:
   1. STAKES: 5/8" X 40" STEEL EYE ANCHOR WITH 4" HELIX
   2. CABLE:
      a. TREES UNDER 5": FLEXIBLE 1/8" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL
      b. TREES 5" AND OVER: FLEXIBLE 3/16" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL.
   3. TURNBUCKLES: 5/16", EYE AND EYE, WITH 4" TAKEUP.
   4. HOSE: NEW TWO-PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D.

I. TREE WRAP: BURLAP TREE WRAP 4" WIDE.

J. TWINE: SOFT NURSERY JUTE.

PART 3 - INSTALLATION OF PLANT MATERIAL

3-01 FIELD VERIFICATION:

A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS OF INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3-02 PREPARATION:

A. ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF 'HORTICULTURE STANDARDS OF NURSERYMEN, INC.' AND AS DETAILED ON THESE DRAWINGS.

B. PLANTING SHALL BE PERFORMED BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.

C. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED CLEARLY.

D. APPLY ROUND-UP OR APPROVED EQUIVALENT TO KILL ANY EXISTING VEGETATION IN ALL AREAS TO BE PLANTED. CONFIRM LENGTH OF WAITING PERIOD BETWEEN CHEMICAL APPLICATION AND PLANT INSTALLATION WITH MANUFACTURER. DO NOT BEGIN PLANTING OPERATIONS UNTIL PRESCRIBED POST-APPLICATION WAITING PERIOD HAS ELAPSED. TAKE EXTREME CARE TO AVOID CHEMICAL DRIFT TO ADJOINING PROPERTIES OF LANDSCAPE PLANTINGS.

E. PRIOR TO ALL PLANTING, ROTOTILL ALL AREAS TO BE LANDSCAPED TO PREPARE FOR PLANT INSTALLATION TO A MINIMUM DEPTH OF 12". ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAINTAIN LINES, LEVELS, PROFILES AND CONTOUR. CHANGES IN GRADE ARE TO BE GRADUAL. BLEND SLOPES INTO LEVEL AREAS. REMOVE ALL DEBRIS, WEEDS AND UNDESIRABLE PLANTS AND THEIR ROOTS FROM AREAS TO BE PLANTED. REMOVE ALL CONCRETE SLAG LARGER THAN 2" IN DIAMETER.

F. TOPSOIL SHALL BE SPREAD OVER THE SITE AT A MINIMUM DEPTH OF 6". FOR THOSE AREAS WHICH ARE INDICATED AS PRAIRIE OR NATURAL AREAS ON THE DRAWINGS, A TOPSOIL DEPTH OF 18" IS RECOMMENDED WHERE POSSIBLE.

G. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PREPARE ALL SEEDED AREAS BY DISKING AND RAKING PRIOR TO PLANTING SEED. SOIL SHALL BE LOOSENED AND SCARIFIED TO A MINIMUM DEPTH OF 6". FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".

H. LOCATE ALL PLANT MATERIAL AS INDICATED OR AS APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT. IF OBSTRUCTIONS ARE ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS, THEN DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED.

I. PLANTING HOLES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANTING DETAILS. HOLES SHALL BE HAND DUG OR MACHINE DUG. GREAT CARE WILL BE TAKEN TO NOT EXCAVATE THE HOLE DEEPER THAN THE ROOT BALL AND THE DIAMETER SHALL BE A MINIMUM OF TWO TIMES THE ROOT BALL WIDTH. REMOVE ANY MATERIALS ENCOUNTERED IN EXCAVATION THAT MAY BE INJURIOUS TO PLANT GROWTH, INCLUDING STONES LARGER THAN 2" IN DIAMETER OR OTHER DEBRIS. SOIL TO BE USED AS BACKFILL SHOULD BE PULVERIZED.

J. PROVIDE PRE-MIXED PLANTING MIXTURE FOR USE AROUND ROOT SYSTEMS AND ROOT BALLS OF THE PLANTS. THE MIXTURES ARE OUTLINED IN SECTION B OF PART 2-02.

K. PRIOR TO PLANTING, PROVIDE ADDITIONAL TOPSOIL TO ALL PLANTING BEDS TO BRING THE FINISH GRADE OF THE BED TO 2" ABOVE LAWN GRADE AND TO FINISH GRADE OF ADJACENT HARD SURFACE GRADES.

L. ADD 2" THICKNESS OF MUSHROOM COMPOST TO ALL ANNUAL, PERENNIAL AND GROUNDCOVER BEDS. FINISH GRADE BED AND INSTALL PLANTS.

3-03 PLANTING PROCEDURES:

A. SET PLANT MATERIAL IN THE PLANTING HOLE TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT AND PLUMB. SET PLANT MATERIAL 2" ABOVE THE ADJACENT FINISH GRADE. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL. REMOVE TREATED BURLAP (GREEN). CUT AND REMOVE OR CUT AND FOLD DOWN UPPER HALF OF WIRE BASKET, DEPENDENT UPON TREE SIZE. BACKFILL HOLE BY FIRMLY TAMPING SOIL TO AVOID ANY AIR POCKETS OR VOIDS.

B. SET BALLED AND BURLAPPED PLANTS IN THE PLANTING HOLE AND COMPACT 8" OF SOIL AROUND THE BASE OF THE BALL. BACKFILL REMAINING SPACE WITH PLANTING MIXTURE. WATER PLANTS IMMEDIATELY AFTER PLANTING TO ELIMINATE ALL VOIDS AND THOROUGHLY SOAK THE PLANT ROOT BALL.

C. SPACE GROUNDCOVER PLANTS ACCORDING TO DIMENSIONS GIVEN ON THE PLANS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED NUMBER OF PLANTS. PLANT TO WITHIN 18" OF THE TRUNKS OF TREES AND SHRUBS OR AT THE EDGE OF THE PLANT BALL, WHICHEVER IS CLOSEST. PLANT TO WITHIN 12" OF EDGE OF BED.

D. MULCHING:
   1. INSTALL 4" DEPTH OF MULCH AROUND ALL TREE AND SHRUB BEDS AS INDICATED ON DRAWINGS OR PLANTING DETAILS. MULCH SHRUB PLANTING AREAS AS CONTINUOUS BEDS. DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNK; FORM MULCH TO CREATE AN INVERTED CONE AROUND TRUNK.
   2. MULCH PERENNIAL, GROUNDCOVER AND ANNUAL PLANTING BEDS WITH 2" MUSHROOM COMPOST. WATER MULCHED AREAS THOROUGHLY AFTER PLACING MULCH.

E. TREE WRAPPING IS NOT REQUIRED, UNLESS THE CONTRACTOR FEELS IT IS NECESSARY DUE TO CHARACTERISTICS OF A PARTICULAR SPECIES OR PAST EXPERIENCE WITH THE SPECIES. THE LANDSCAPE ARCHITECT WILL BE NOTIFIED AS TO WHICH TREES ARE TO BE WRAPPED AND SHALL INSPECT THE TRUNK(S) BEFORE WRAPPING. TREE WRAP WILL NOT BE USED TO COVER DAMAGE OR DEFECTS. WHEN WRAPPING IS DONE, TRUNKS WILL BE WRAPPED SPIRALLY WITH APPROVED TREE WRAPPING TAPE THAT IS NOT LESS THAN 4" WIDE, AND SECURELY TIED WITH SUITABLE CORD AT THE TOP, BOTTOM AND 2" INTERVALS ALONG THE TRUNK. WRAP FROM GROUND TO THE HEIGHT OF THE FIRST BRANCH.

F. STAKING AND GUYING OF TREES IS OPTIONAL. IF THE CONTRACTOR CHOOSES TO STAKE ALL OR PART OF THE TREES, HE/SHE SHALL USE THE METHOD SPECIFIED IN THE PLANTING DETAILS. ONE (1) STAKE IS TO BE USED ON TREES OF 1" CALIPER AND UNDER, OR 4' HEIGHT AND UNDER. TWO (2) STAKES ARE TO BE USED ON TREES OF 1" TO 2 3/4" CALIPER. GUY TREES OF 3" CALIPER OR LARGER AT THREE (3) PER TREE. THE ROOT BALL WILL NOT BE PIERCED WITH A STAKE. STAKES ARE TO BE DRIVEN AT LEAST EIGHTEEN (18) INCHES INTO SUBSOIL BELOW THE PLANTING HOLE. STAKES AND WIRE ATTACHMENTS SHALL BE REMOVED AFTER THREE MONTHS FOR SPRING PLANTED MATERIAL AND BY THE FOLLOWING MAY FOR FALL PLANTED STOCK BY THE CONTRACTOR. STAKING AND GUYING SHOULD BE DONE IMMEDIATELY AFTER LAWN SEEDING OR SODDING OPERATIONS.

G. SEEDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE TREATED AS FOLLOWS:
   1. TOPSOIL SHALL BE SPREAD OVER ALL AREAS TO BE SEEDED TO A MINIMUM DEPTH OF 6" WHEN COMPACTED (TO BE PERFORMED BY OTHERS).
   2. SEED MIXTURE AND APPLICATION RATE - USE FIELD OF DREAMS GAMEDAY SEED MIX (70% BLUEGRASS / 30% RYEGRASS) AS SUPPLIED BY NATIONAL SEED. APPLY AT A RATE OF 3-4 LBS./1000 S.F.
   3. APPLY FERTILIZERS AND CONDITIONERS AT THE RATE SPECIFIED PER SOIL TEST FINDINGS. IN LIEU OF SOIL TEST RESULTS, APPLY TWO (2) TONS OF GROUND AGRICULTURAL LIMESTONE AND 1000 LBS. 10-10-10 OR EQUIVALENT ANALYSIS FERTILIZER PER ACRE. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE OF AN ORGANIC ORIGIN.
   4. SOIL PREPARATION AREAS WHERE VEHICULAR TRAFFIC HAS COMPACTED THE SOIL SHALL BE LOOSENED/SCARIFIED TO A MINIMUM DEPTH OF 6" BEFORE FERTILIZING AND SEEDING. FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".
   5. WATERING SEEDED AREAS SHALL BE DONE TO ENSURE PROPER GERMINATION. ONCE SEEDS HAVE GERMINATED, WATERING MAY BE DECREASED BUT THE SEEDLINGS MUST NEVER BE ALLOWED TO DRY OUT COMPLETELY. FREQUENT WATERING SHOULD BE CONTINUED APPROXIMATELY FOUR (4) WEEKS AFTER GERMINATION OR UNTIL GRASS HAS BECOME SUFFICIENTLY ESTABLISHED TO WARRANT WATERING ON AN 'AS NEEDED' BASIS.
   6. TURF IS BEING ESTABLISHED ON A VARIETY OF SLOPE CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT WHATEVER PROCEDURES HE/SHE DEEMS NECESSARY TO ESTABLISH THE TURF AS PART OF HIS/HER WORK. SEEDED AREAS WILL BE ACCEPTED WHEN ALL AREAS SHOW A UNIFORM STAND OF THE SPECIFIED GRASS IN HEALTHY CONDITION AND AT LEAST 90 DAYS HAVE ELAPSED SINCE THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL SUBMIT WITH HIS/HER BID A DESCRIPTION OF THE METHODS AND PROCEDURES HE/SHE INTENDS TO USE.

H. EROSION CONTROL BLANKET
   1. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION IN ALL AREAS SHOWN ON THE PLAN.
   2. INSTALL S-75 EROSION CONTROL BLANKET AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
   3. BLANKET SHOULD BE PREMARKED WITH STAPLE PATTERN.
   4. STAPLES SHOULD BE 8" WIRE STAPLES, APPLIED AT TWO (2) PER SQUARE YARD MINIMUM.
   5. SUITABLE EROSION CONTROL PRACTICES SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND ALL APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCES AND THE PLANS.

I. SODDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE COMPLETED AS FOLLOWS:
   1. RAKE SOIL SURFACE TO RECEIVE SOD TO COMPLETELY REMOVE ANY SOIL CRUST NO MORE THAN ONE DAY PRIOR TO LAYING SOD.
   2. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWNS. DO NOT CREATE A MUDDY SOIL CONDITION.
   3. SOD SHALL BE LAID WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT PLANT DORMANT SOD OR IF THE GROUND IS FROZEN.
   4. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS; DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK FROM BOARDS TO AVOID DAMAGE TO SUBGRADE OR SOD. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING OF ADJACENT SOD.
   5. PLACE TOP ELEVATION OF SOD 1/2 INCH BELOW ADJOINING EDGING OR PAVING.
   6. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
   7. AFTER SOD AND SOIL HAVE DRIED, ROLL SEEDED AREAS TO ENSURE A GOOD BOND BETWEEN THE SOD AND SOIL, AND TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES.
   8. SODDED SLOPES 3:1 OR GREATER SHALL BE STAKED TO PREVENT EROSION AND WASHOUT.
   9. WARRANTY SODDING FOR A PERIOD OF ONE (1) YEAR FROM THE END OF THE 90 DAY MAINTENANCE PERIOD. IF SOD FAILS OR LACKS VIGOR AND FULL GROWTH AS DETERMINED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR WILL REPEAT SITE PREPARATION OPERATIONS AND RE-SOD AFFECTED AREAS AT THE CONTRACTOR'S EXPENSE.
   10. NOTE: SOD SHALL BE A PREMIUM KENTUCKY BLUEGRASS BLEND, AND IS REQUIRED IN ALL AREAS INDICATED ON THE PLANS AS WELL AS AREAS WHICH HAVE BEEN AFFECTED BY CONSTRUCTION. SOD CAN BE PLACED AS LONG AS WATER IS AVAILABLE AND THE GROUND SURFACE CAN BE PROPERLY PREPARED. SOD SHALL NOT BE LAID ON FROZEN OR SNOW-COVERED GROUND. SOD SHALL BE STRONGLY ROOTED, NOT LESS THAN TWO (2) YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. SOD SHOULD BE MACHINE CUT TO PAD THICKNESS OF 3/4" (PLUS OR MINUS 1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT). PROVIDE SOD OF UNIFORM PAD SIZES WITH MAXIMUM 5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTABLE. SOD PADS INCAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10% OF PAD WILL NOT BE ACCEPTED.

J. TIMING OF PLANT MATERIAL AND SEEDING OPERATIONS:
   1. SEEDING OF SPECIFIED AREAS SHALL OCCUR WHEN THE SOIL TEMPERATURE IS ABOVE 55° F. NO SEED SHALL BE SOWN DURING PERIODS OF HIGH WINDS, OR WHEN THE GROUND IS NOT IN PROPER CONDITION FOR SEEDING (SEE SECTION 3-02 (G)). SEEDING OPERATIONS FOR THE SPECIFIED MIXES SHALL OCCUR IN THE SPRING TIME FRAME OF APRIL 15 THROUGH JUNE 30 AND IN THE SUMMER TIME FRAME OF AUGUST 15 THROUGH DECEMBER 1. THE MIXES CONTAINING BLUEGRASS AND FESCUE SEED MUST HAVE SIX WEEKS TO HARDEN OFF FOR WINTER SURVIVAL.
   2. SOD SHALL BE INSTALLED WHEN THE GROUND IS NOT FROZEN OR SNOW COVERED AND TEMPERATURES ARE LESS THAN 80° F. IT SHALL NOT BE PLACED DURING A PERIOD OF EXTENDED DROUGHT.
   3. HERBACEOUS ORNAMENTAL PLANTS SHALL BE PLANTED BETWEEN MAY 1 AND JUNE 15 OR BETWEEN AUGUST 15 AND DECEMBER 1.
   4. SPRING PLANTING OF WOODY ORNAMENTAL PLANTS SHALL BE PERFORMED FROM THE TIME THE SOIL CAN BE EASILY WORKED UNTIL JUNE 1, EXCEPT THAT EVERGREEN PLANTING SHALL END ON MAY 15. OAK, HAWTHORN AND RED MAPLE SPECIES WILL ONLY BE PLANTED DURING THIS SPRING PLANTING PERIOD. FALL PLANTING WILL BEGIN AUGUST 15 AND WILL CONTINUE UNTIL THE GROUND CANNOT BE WORKED SATISFACTORILY, EXCEPT THAT EVERGREE

PANEL MARKS: **1200A**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	1200A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	65 KAIC SC FULLY RATED
MATERIAL:	ALUMINUM BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR.	Bottom
TYPE:	Lugs
AMPS/SENSOR:	1200A/-
CATALOG NO.:	LGML260A
POLES:	3
LUGS:	Main Lug (4) #2-500 mcm, No Feed Through

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
16	12

OPTIONS INCLUDED

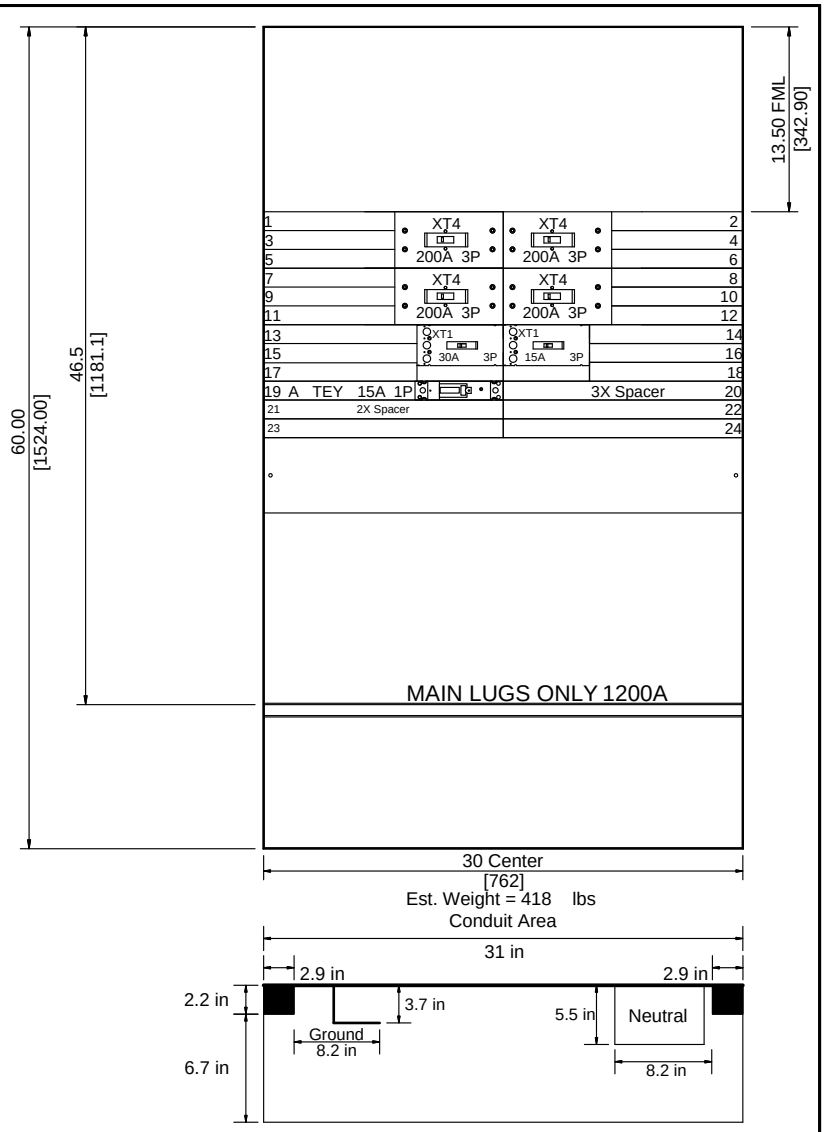
QTY	DESCRIPTION
1	Aluminum Bus Heat Rated
1	47 Ckt bonded grd

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER6030R	Enclosure
1	GC30C16BLA	Gutter Covers
1	FT30S00135	Front 1 of 2
1	FT30S00260	Front 2 of 2
1	BP30C	WirePost

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG47AL	Ground
1	IN1612BL3H1	Interior Bus Stack
1	NL12I0NSTNDAL	Neutral
6	LGML260A	MLO and/or FTL Kit
0	LGML45	Main Code - Not a Catalog Number
1	IF1630C	Interior Frame
1	IL30C	Lifting Kits
1	SR02BB	2X Blank only
1	SR03BB	3X Blank only
2	SR1XBR	1 XT1 Mtg Kit, Narrow



PANEL INFORMATION	
INTERNAL DIMENSIONS	60"X32"X11"
NOTES	
EXTERNAL DIMENSIONS	61"X33.5"X16.7"

1. FML - FRAME MOUNTING LOCATION.
2. DRAWING NOT TO SCALE.
3. DIMENSIONS ARE IN INCHES[mm].

NEUTRAL CAN BE MOUNTED IN ANY CORNER

FACTORY AUTO-LAYOUT. THE LAYOUT IS NOT SPECIFIED, THE FACTORY MAY CHANGE THE LOCATION OF SOME OF THE BREAKERS. NEUTRAL ARE PRESSURE LUGS.

PROJECT NAME : Q- Panelboard Specs Aug 2024 - Solar Landscape		PANEL ID: neXT Panel Assembled Interior	PRODUCT NAME: *ReliaGear neXT PANELBOARD*	DRAWING NO:	
CUSTOMER: SUNBELT SOLOMON		CREATED BY: Basden, Joseph		ITEM NO:	15
		DATE: 08/14/2024 15:15:21		MARKS:	1200A
		REVISION NO.		QUOTE NO:	UM4-00002453
				SHEET:	1

8/14/2024 3:32:09 PM SAP ORDER:

neXT Device Information

X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
1	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
2	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
7	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
8	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
13	XT1HU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1HU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYALEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
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PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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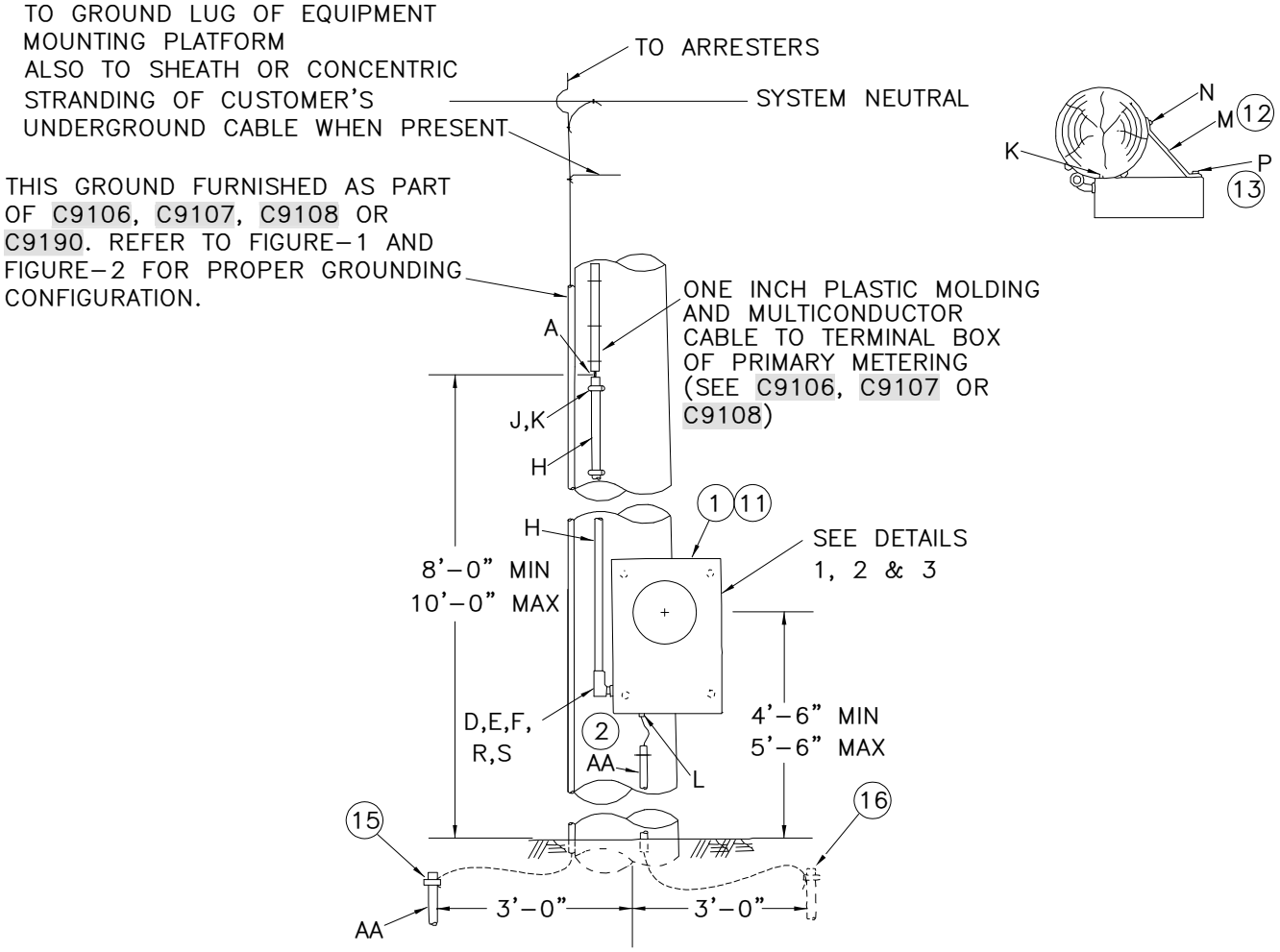
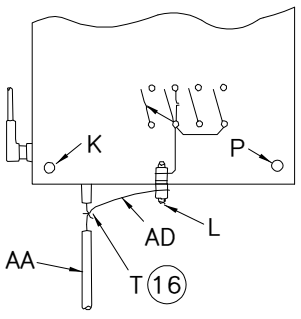
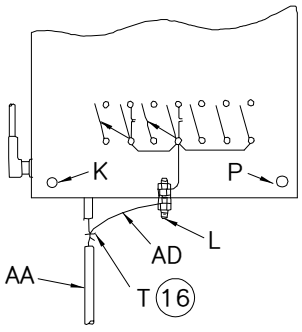


C9105.1_

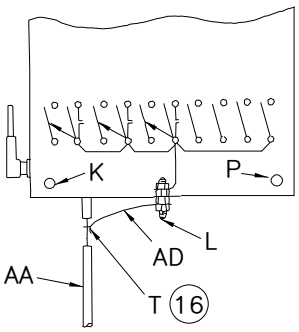
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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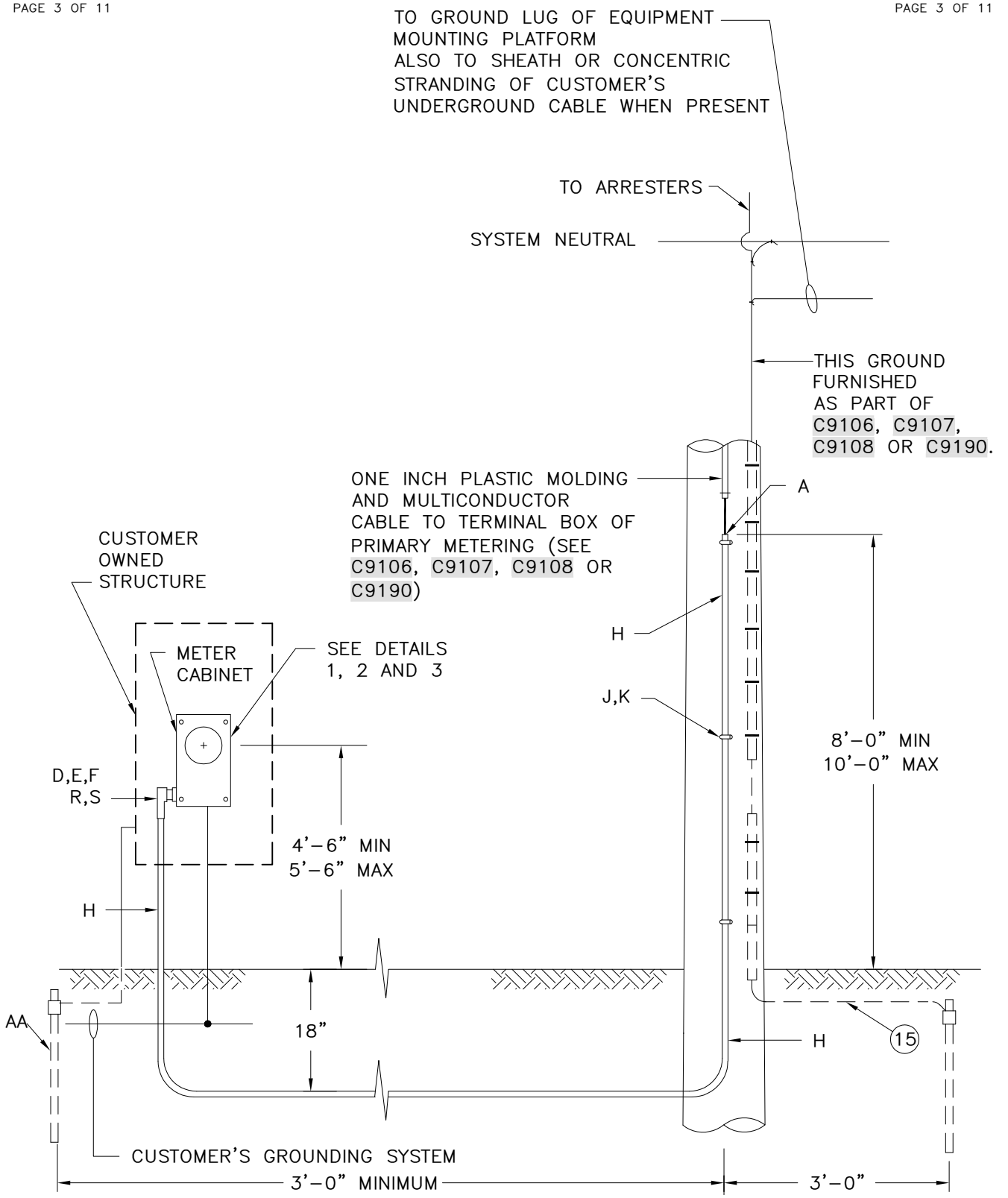

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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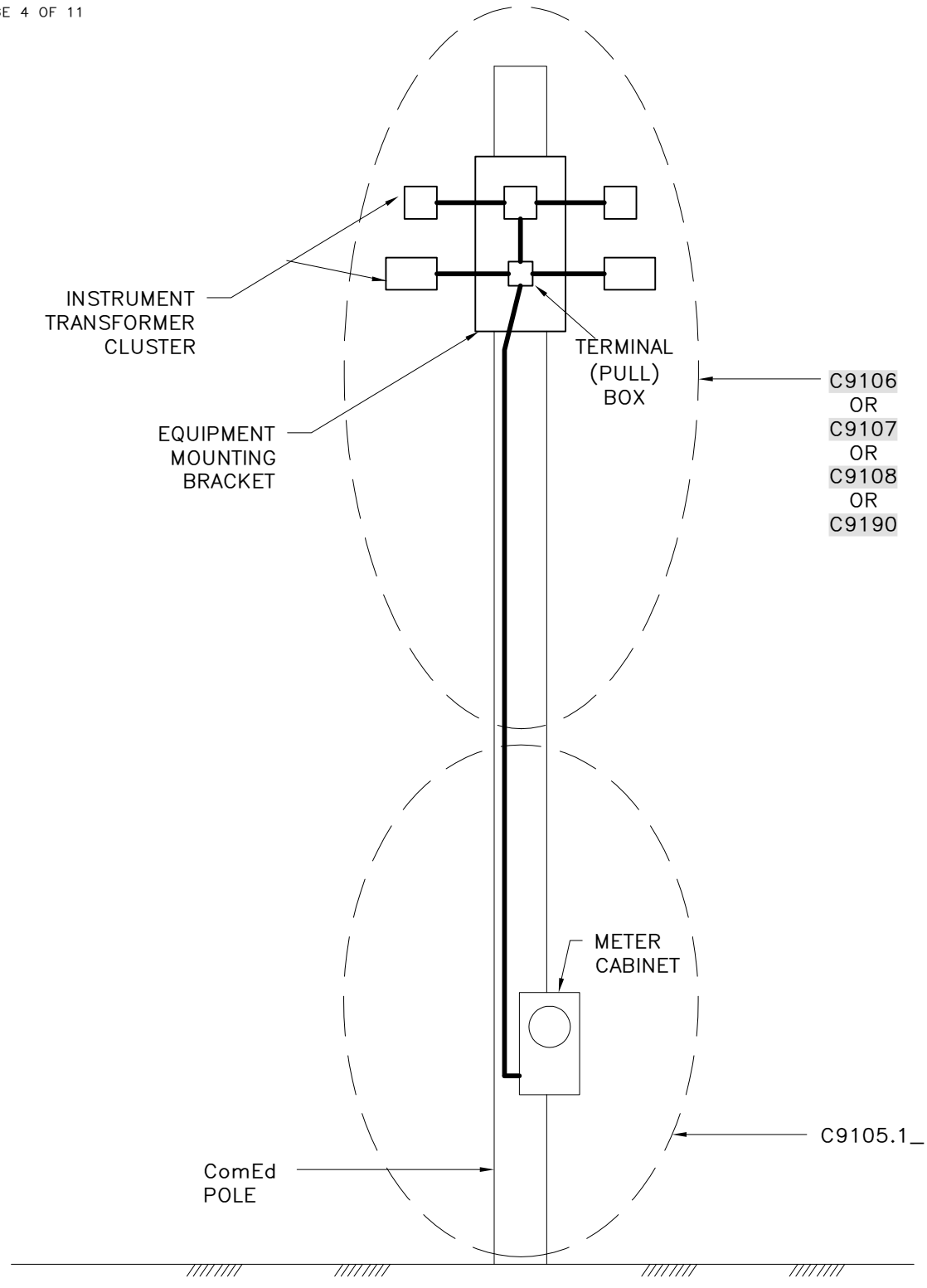

DETAIL-4

METER ON PRIMARY METERING POLE

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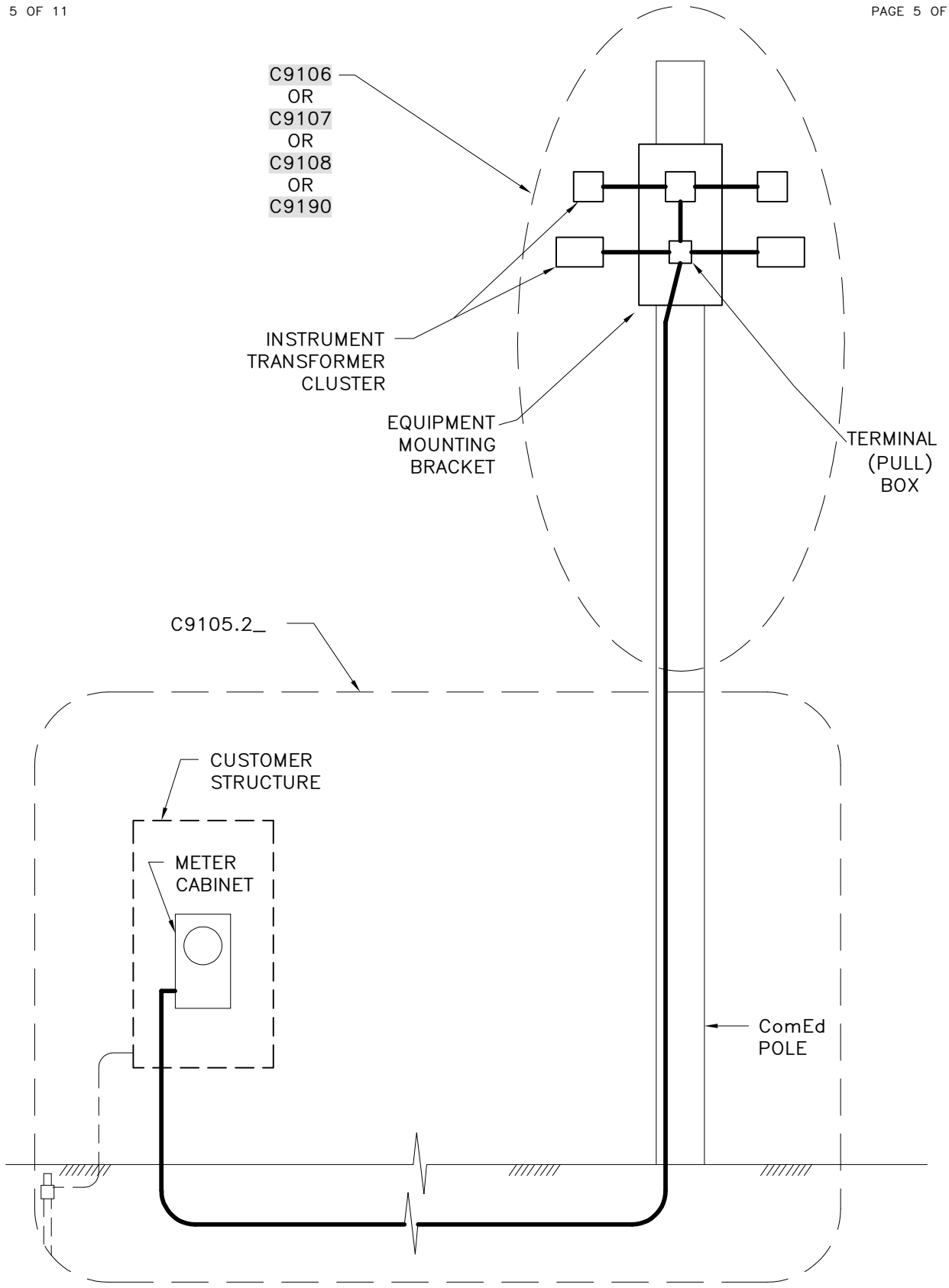

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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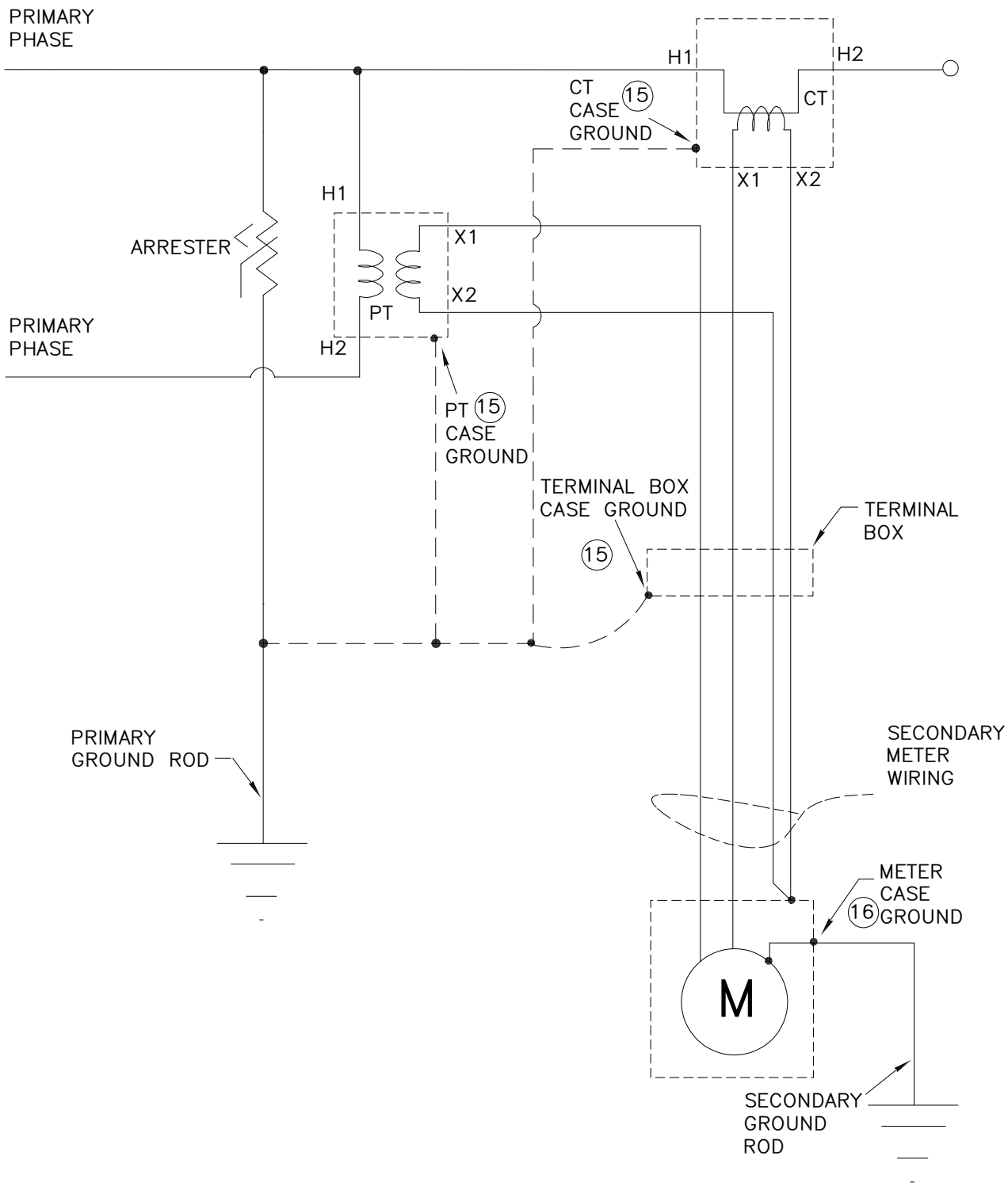

FIGURE-1

3-WIRE GROUNDING

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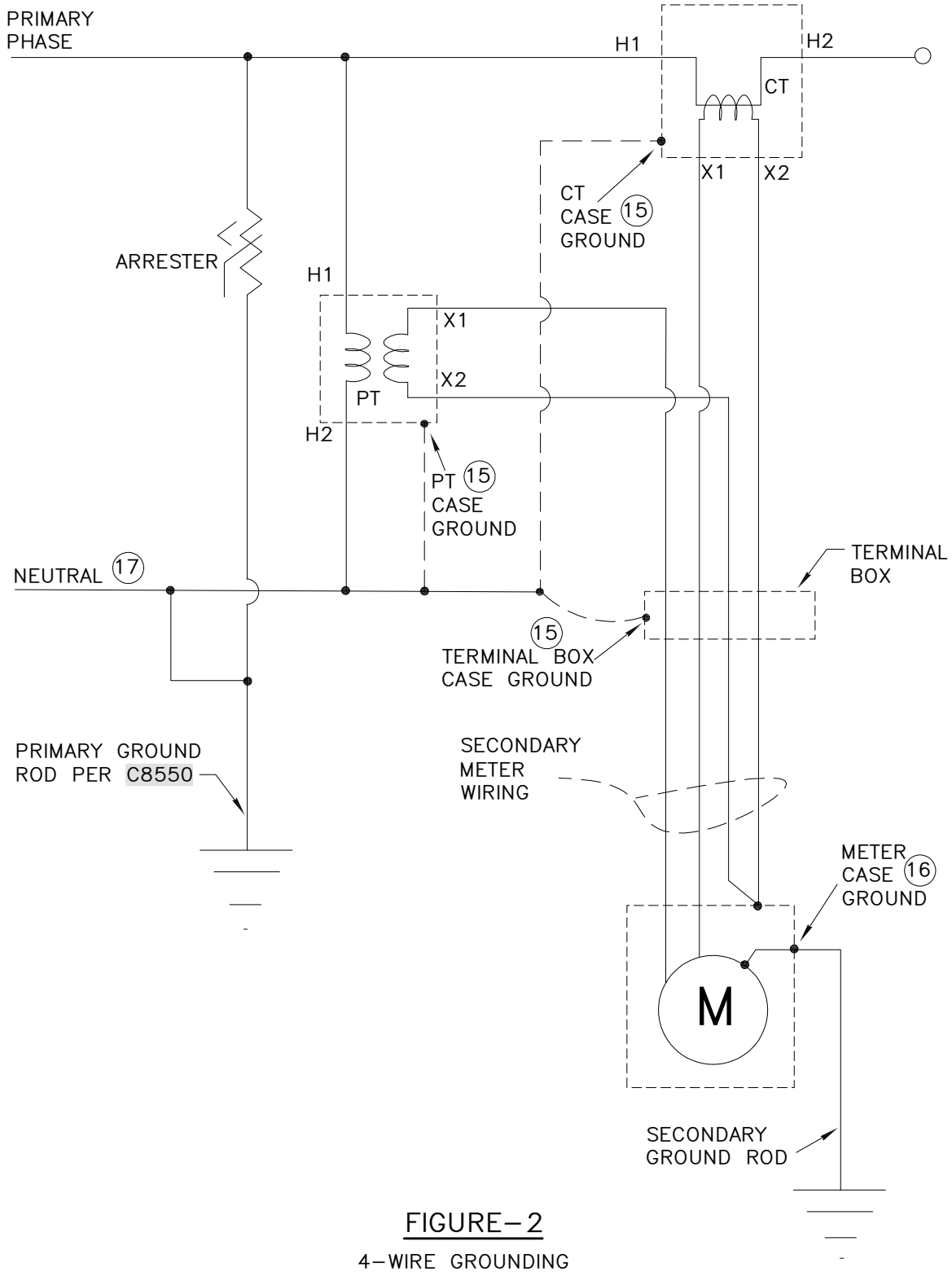

FIGURE-2

4-WIRE GROUNDING

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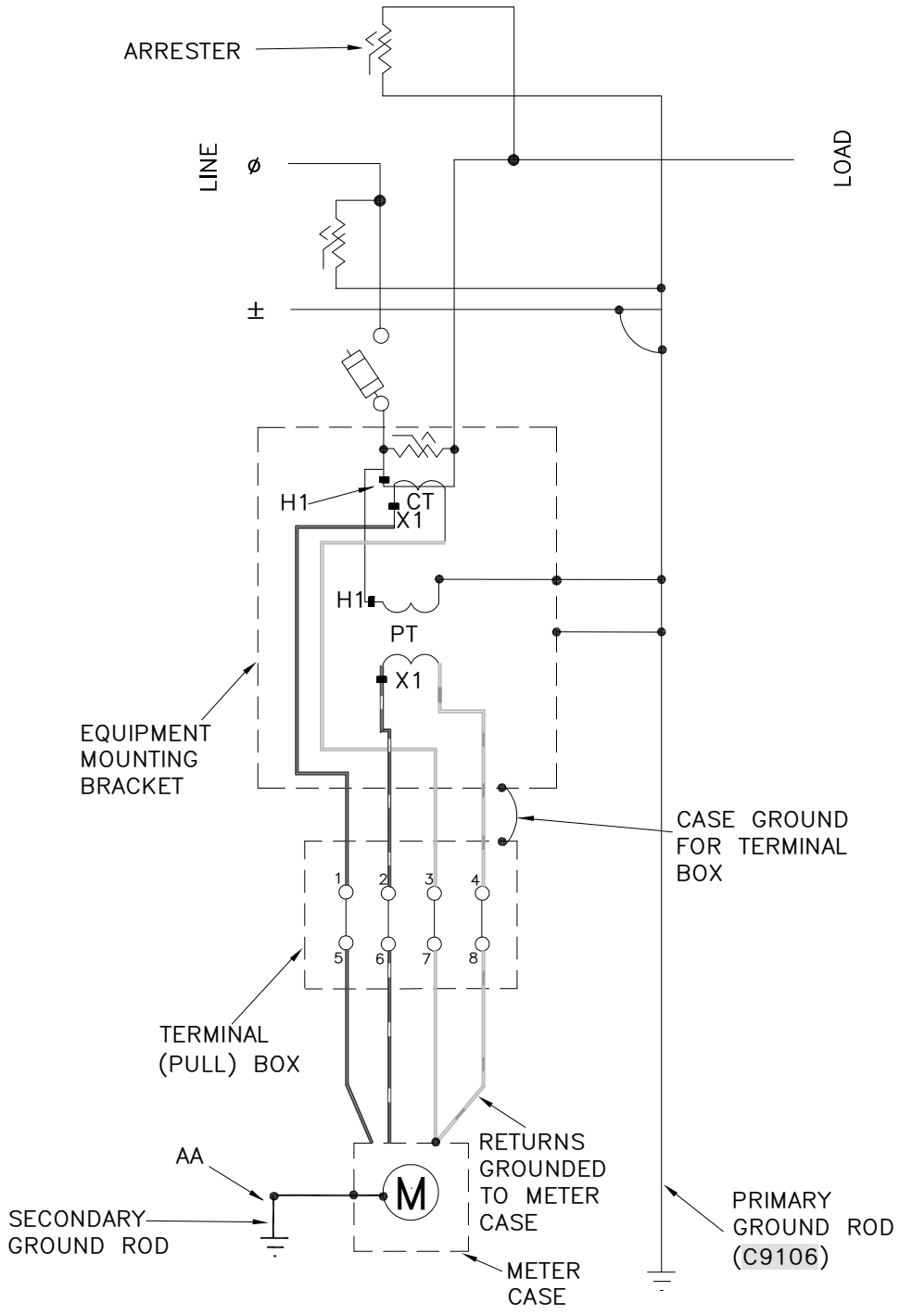

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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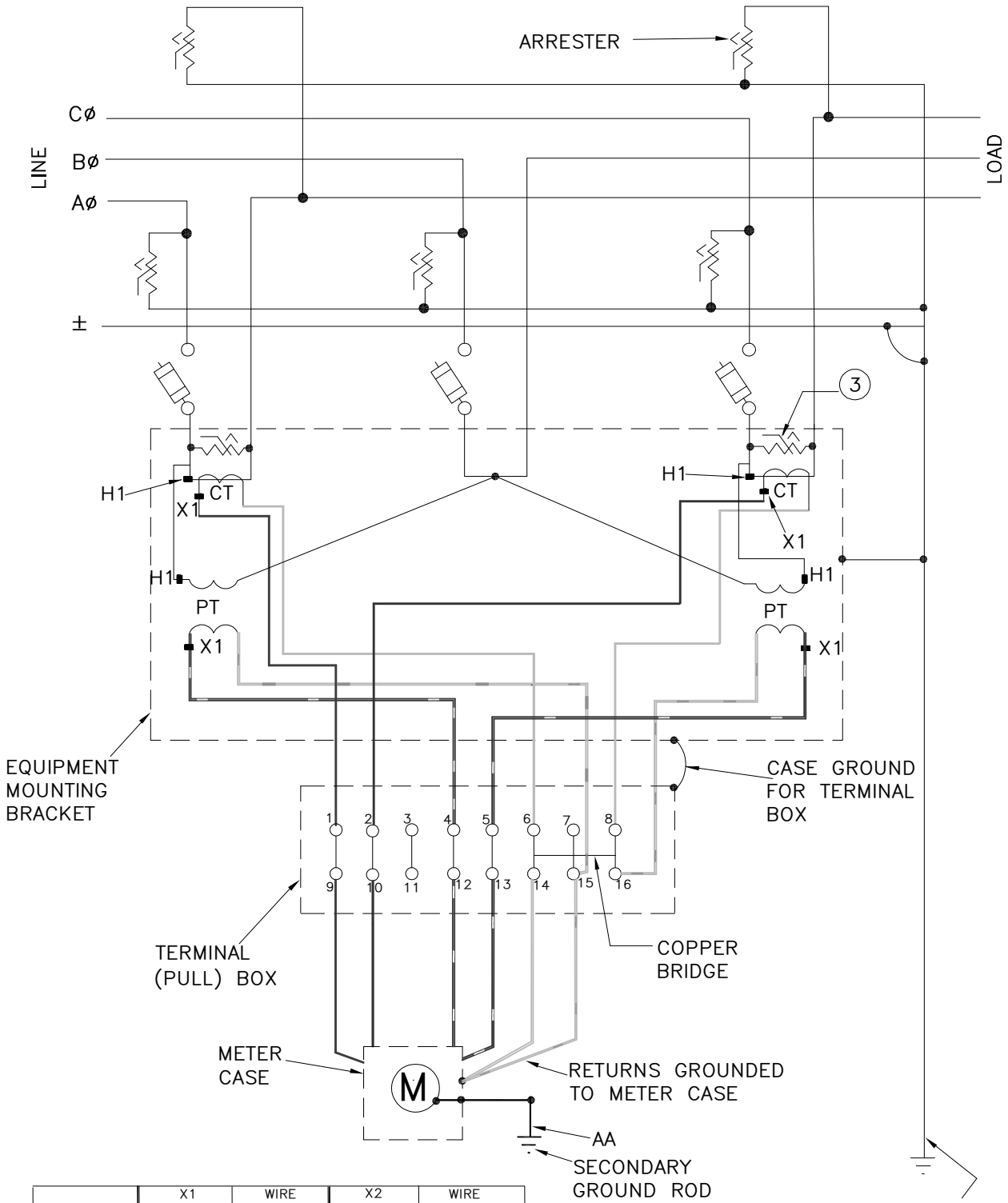

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Cø CT	2	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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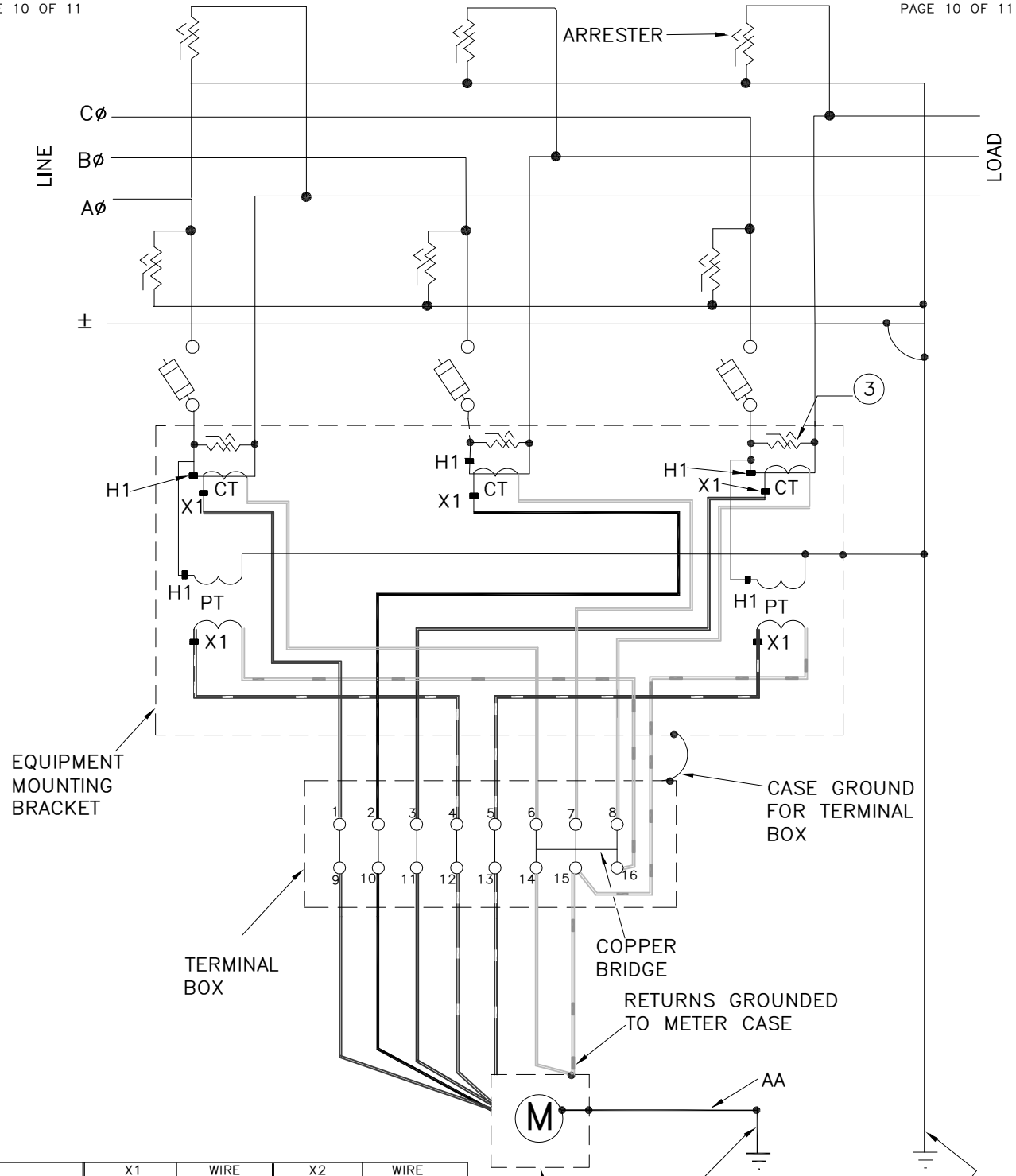

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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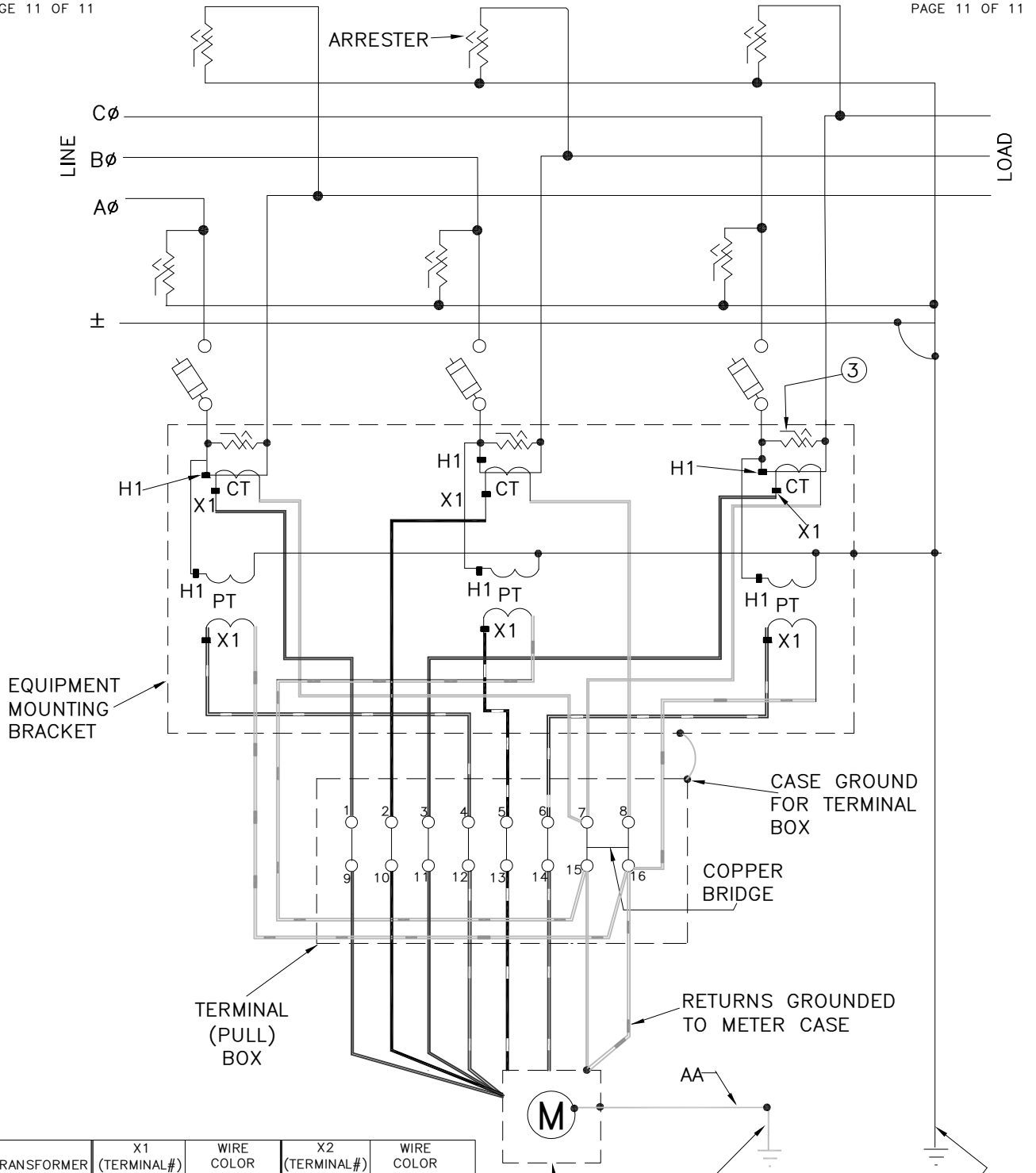

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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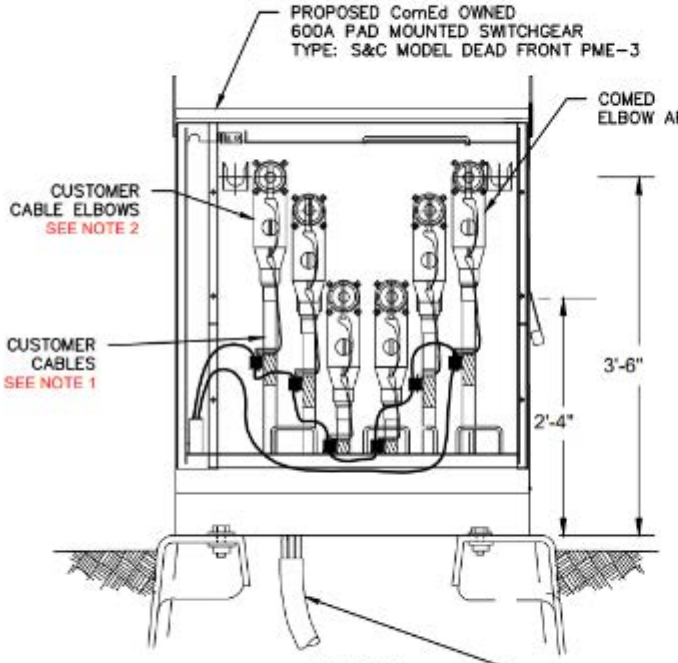
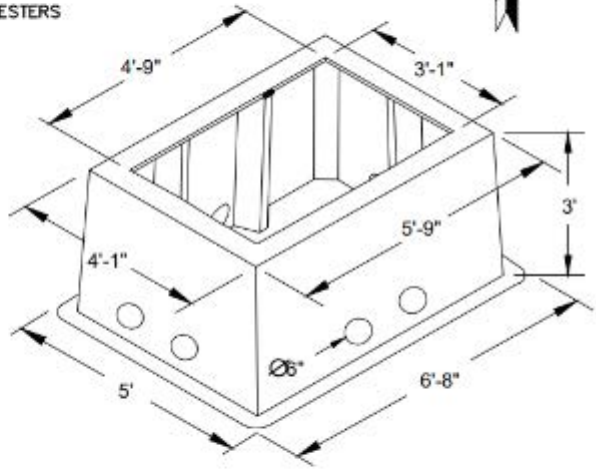


DETAIL 1
POINT OF INTERCONNECTION
(REAR VIEW - LOOKING EAST)



DETAIL 2
FOUNDATION DIMENSIONS
PRIMARY METER & SWITCHGEAR

Eaton STS368ND3-1C00

Catalog Number: STS368ND3-1C00

Eaton shunt trip safety switch, with AFGF relay, 1200 A, Three-pole, 600 Vac, 250 Vdc, 120 Vac, NEMA 12, NEMA 3R, Fusible, 600 V



General specifications

Product Name	**Catalog Number**
Eaton shunt trip safety switch	STS368ND3-1C00
UPC	**Product Length/Depth**
786689369712	23.15 in
Product Height	**Product Width**
72.5 in	47.23 in
Product Weight	**Certifications**
405 lb	UL Listed cUL Certified

Powering Business Worldwide

Physical Attributes

Enclosure

NEMA 12, NEMA 3R

Number Of Poles

Three-pole

Type

Shunt trip safety switch w/ AFGF relay

Performance Ratings

Amperage Rating

1200A

Coil voltage

120 Vac

Protection

Fusible

Voltage rating

600 Vac, 250 Vdc

Resources

Multimedia

Double Up on Safety

ARMS Enclosed Circuit Breaker

Switching Devices Flex Center

Specifications and datasheets

Eaton Specification Sheet - STS368ND3-1C00

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Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

INVERTER



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					˚F / ˚C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

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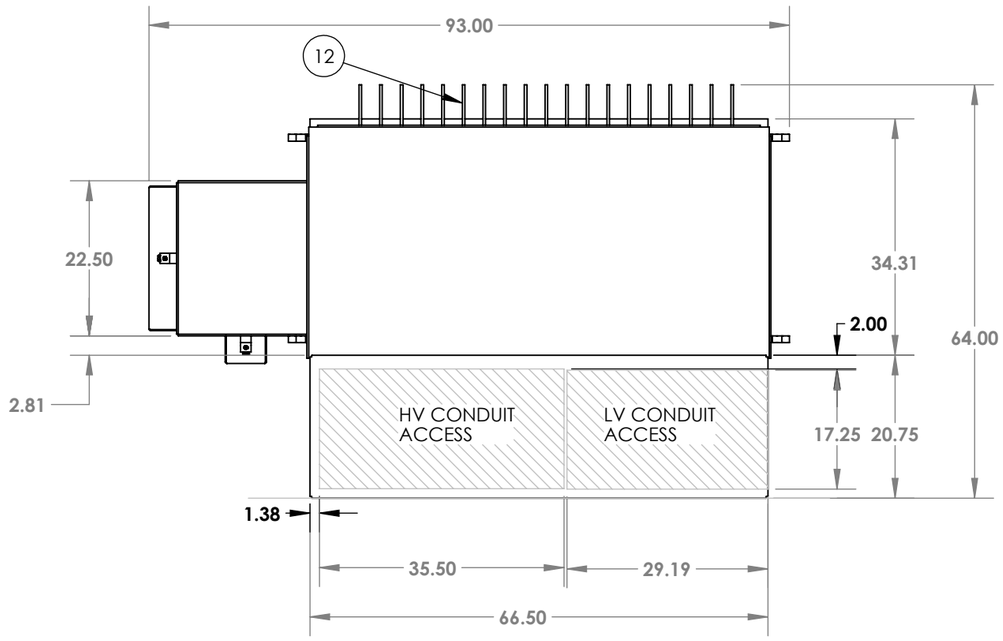
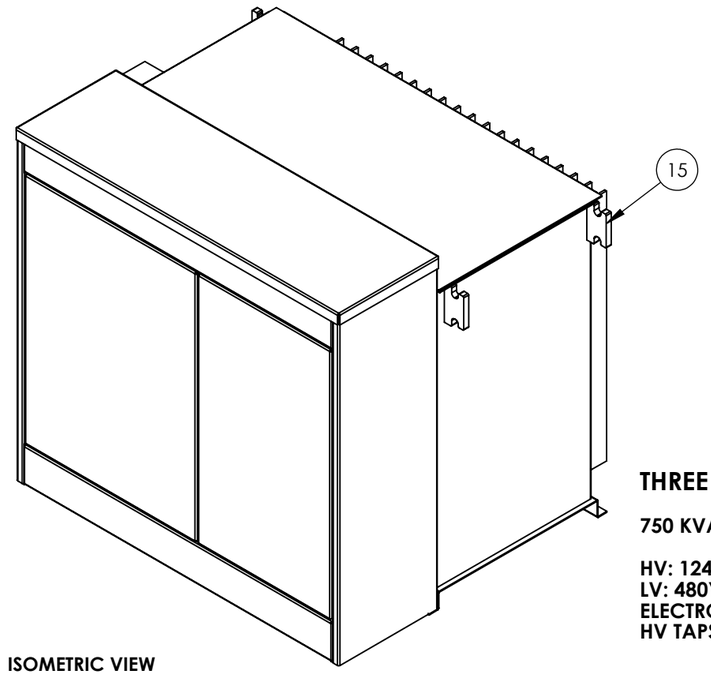


TOP VIEW



ISOMETRIC VIEW

ITEM NO.	PART NUMBER
1	TAP CHANGER (DE-ENERGIZED OPERATION)
2	2 POSITION BOX ASSEMBLY
3	WELLS &15 KV INSERTS
4	10KV ELBOW ARRESTER
5	PARKING STANDS
6	LV BUSHING - 6 HOLE
7	LIQUID LEVEL GAUGE W/ C0NTACT
8	THERMOMETER W/ CONTACT
9	PRESSURE VACUUM GAUGE W/ CONTACT
10	TERMINAL BLOCK (MCMASTER-CARR: 7527K53)
11	BAYONET W/ CURENT LIMITING
12	RADIATORS
13	DRAIN & SAMPLE VALVE
14	GROUND PAD
15	LIFT LUG

THREE PHASE PADMOUNT TRANSFORMER

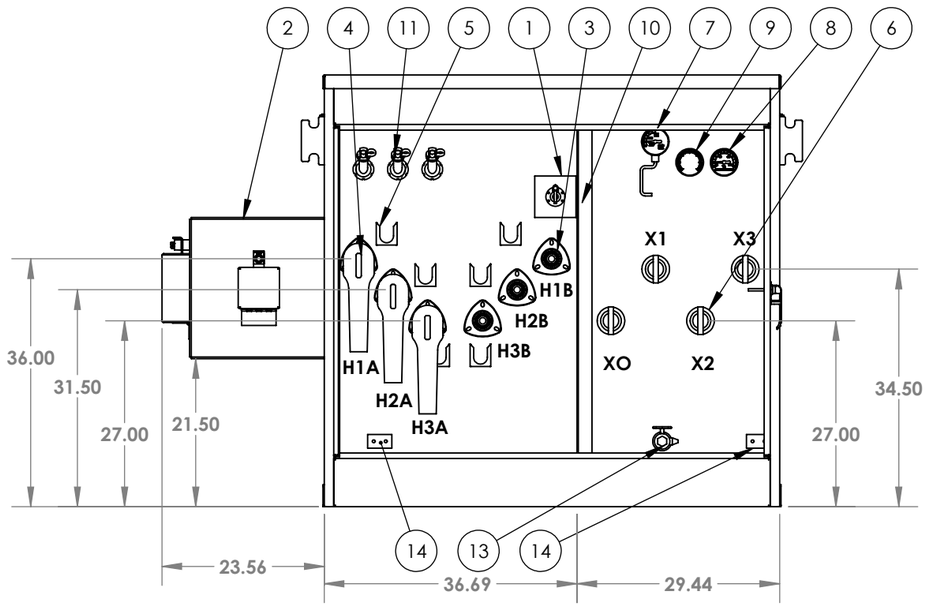
750 KVA AT 65 DEGREES C RISE KNAN

HV: 12470 DELTA BIL: 95KV
LV: 480Y/277 BIL: 30KV
ELECTRO STATIC SHIELD
HV TAPS: -/+ 5%

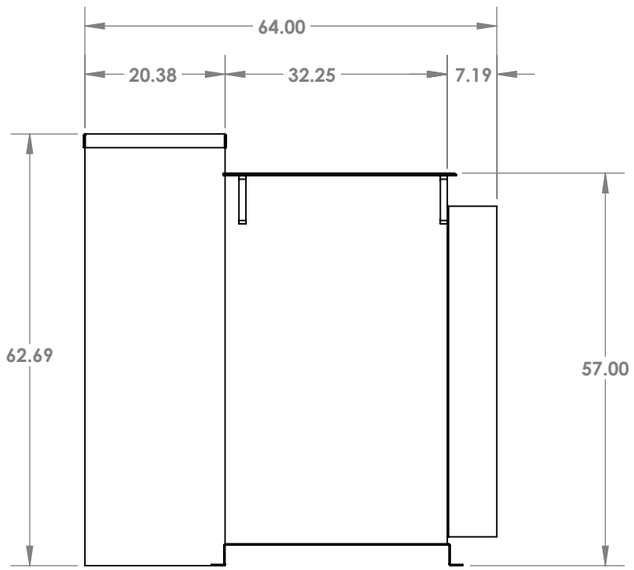
APPROXIMATE WEIGHTS & GALLONS

MAIN OIL GALS:	377 GAL. - FR3
CORE & COILS:	3,651 LBS.
TANK & FITTINGS:	1,921 LBS.
MAIN OIL WT:	2,828 LBS.
TOTAL WT:	8,400 LBS.

*****WEIGHTS AND GALLONS ARE NOT FINAL UNTIL AFTER DESIGN*****



FRONT VIEW



RIGHT VIEW

Drawing For Approval

	BY	DATE
___ APPROVED FOR FABRICATION		
___ APPROVED FOR FABRICATION AS NOTED		
___ RESUBMIT AS NOTED		

Transformer will not be realeased to scheduling until drawing is approved

NOTE: ALL DIMENSIONS & WEIGHTS ARE APPROXIMATE. THE NUMBER AND PRECISE LOCATIONS OF GAUGES, VALVES, PRESSURE RELIEF'S, BUSHINGS, AND OTHER COMPONENTS IS SUBJECT TO CHANGE BEFORE UNIT IS COMPLETE.

TITLE:	THREE PHASE PADMOUNT	CUSTOMER:	SOLAR LANDSCAPE, LLC			REVISION:	
IC #	122014748	WORK ORDER #	445149	SALES ORDER #	339918		
DRAWN BY:	MC	DATE:	03/26/25	CHECKED BY:	DATE:	DRAWNING TYPE:	APPROVAL

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UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES

SUNBELT SOLOMON

SHEET 1 OF 1

PANEL MARKS: **1200A**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	1200A
VOLTAGE:	480Y/277V
SYSTEM:	3P4W
KAIC:	65 KAIC SC FULLY RATED
MATERIAL:	ALUMINUM BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR.	Bottom
TYPE:	Lugs
AMPS/SENSOR:	1200A/-
CATALOG NO.:	LGML260A
POLES:	3
LUGS:	Main Lug (4) #2-500 mcm, No Feed Through

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
16	12

OPTIONS INCLUDED

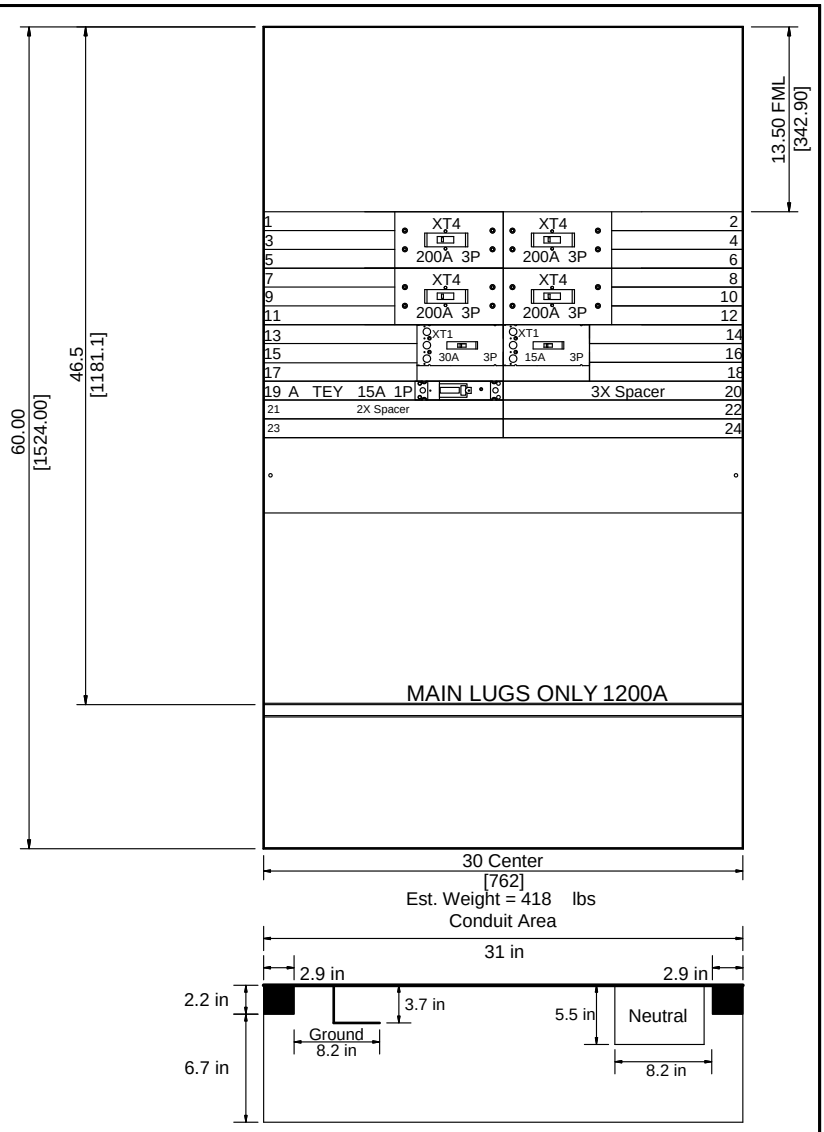
QTY	DESCRIPTION
1	Aluminum Bus Heat Rated
1	47 Ckt bonded grd

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER6030R	Enclosure
1	GC30C16BLA	Gutter Covers
1	FT30S00135	Front 1 of 2
1	FT30S00260	Front 2 of 2
1	BP30C	WirePost

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG47AL	Ground
1	IN1612BL3H1	Interior Bus Stack
1	NL12I0NSTNDAL	Neutral
6	LGML260A	MLO and/or FTL Kit
0	LGML45	Main Code - Not a Catalog Number
1	IF1630C	Interior Frame
1	IL30C	Lifting Kits
1	SR02BB	2X Blank only
1	SR03BB	3X Blank only
2	SR1XBR	1 XT1 Mtg Kit, Narrow



PANEL INFORMATION	
INTERNAL DIMENSIONS	60"X32"X11"
NOTES	
EXTERNAL DIMENSIONS	61"X33.5"X16.7"

1. FML - FRAME MOUNTING LOCATION.
2. DRAWING NOT TO SCALE.
3. DIMENSIONS ARE IN INCHES[mm].

NEUTRAL CAN BE MOUNTED IN ANY CORNER

FACTORY AUTO-LAYOUT. THE LAYOUT IS NOT SPECIFIED, THE FACTORY MAY CHANGE THE LOCATION OF SOME OF THE BREAKERS. NEUTRAL ARE PRESSURE LUGS.

PROJECT NAME : Q- Panelboard Specs Aug 2024 - Solar Landscape		PANEL ID: neXT Panel Assembled Interior	PRODUCT NAME: *ReliaGear neXT PANELBOARD*	DRAWING NO:	
CUSTOMER: SUNBELT SOLOMON		CREATED BY: Basden, Joseph		ITEM NO:	15
		DATE: 08/14/2024 15:15:21		MARKS:	1200A
		REVISION NO.		QUOTE NO:	UM4-00002453
				SHEET:	1

8/14/2024 3:32:09 PM SAP ORDER:

neXT Device Information

X Space	Breaker Catalog Number	Trip Amps	Sensor Amps	Trip Unit	Poles	Phases Used	Lug Cable Size/Neut Sensor/Grnd Fault Cable	Notes
1	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
2	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
7	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
8	XT4HU32501Y8000XXX	200	250	Ekip Dip LSI	3	ABC	(1) 3/0 AWG - 350 MCM	
13	XT1HU3030AYD000XXX	30	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
14	XT1HU3015AYD000XXX	15	-	TMF	3	ABC	(1) 10 - 2/0 AWG	
19	TEYALEC0AAXXXXXX	15	-	TMF	1	A	(1) 14-10 AWG	

NOTES:

REVISES STANDARD DATED 12-11-15

COMPATIBLE UNITS AVAILABLE IN PASSPORT

PORTIONS OF THIS STANDARD ARE COLORIZED FOR CLARITY

11-18-16
C9105
PAGE 1 OF 11

PRIMARY METERING METER

INSTALLATION OF METERING EQUIPMENT AND GROUNDS

TYPE OF INSTALLATION
POLE HEIGHT

C9105.1 _ METER ON ComEd OWNED PRIMARY METERING POLE (14)
.2 _ METER ON CUSTOMER OWNED STRUCTURE (14)
._ B 30 FEET
._ C 35 FEET
._ D 40 FEET
._ E 45 FEET
._ F 50 FEET
._ G 55 FEET

ITEM	CAT ID DESCRIPTION TABLE-1	CAT ID	UNIT	QUANTITY .1_	QUANTITY .2_
A	COMPOUND, MECHANICAL, SEALING, 5 LB. PACKAGE, PER C-9493.	0000350004	EA	1	1

ITEM	CAT ID DESCRIPTION TABLE-2	CAT ID	UNIT	QUANTITY ._B	._C	._D	._E	._F	._G
AA	**GROUNDING INSTALLATION C8550. ___** (2)			1	1	1	1	1	1

CUSTOMER TO PROVIDE AND INSTALL

ITEM	TABLE-3 (1)	ComEd CAT ID	UNIT	QUANTITY
D	BODY, CONDUIT, 1 IN., TYPE LB, RIGID, THREADED, EM-59045 DATED	0000372428	EA	1
E	LOCKNUT, CONDUIT, 1 IN., THREADED, RIGID, GALVANIZED, APPLETON	0000373501	EA	1
F	BUSHING, CONDUIT, 1 IN., THREADED RIGID TYPE, GALVANIZED, NON-	0000372659	EA	1
H	CONDUIT, RIGID, 1 IN. X 10 FT., HOT DIPPED GALVANIZED, THREADE	0000376169	FT	5
J	CLAMP, CONDUIT, 1 IN. RIGID, ONE HOLE, GALVANIZED MALLEABLE IR	0000372811	EA	2
K	SCREW, LAG, U-GUARD, 1/4 IN. X 2-1/2 IN. WITH PRE-ASSEMBLED WA	0000384230	EA	7
L	CONNECTOR, BAR TAP, #10 SOLID TO #2 STR. CABLE TO 1/4 IN. MAX.	0000368764	EA	1
M	BRACE, STEEL, HOT GALVANIZED, 10 IN. X 1-1/2 IN. X 3/16 IN., 90 DEG. TWIST	0000382072	EA	2
N	SCREW, LAG, 1/2 X 3 IN., SQUARE HEAD, HOT GALVANIZED STEEL, TW	0000381359	EA	2
P	BOLT, SQUARE HEAD, 1/2 -13 X 1-1/2 IN., HOT GALVANIZED, WITH S	0000381129	EA	4
R	COVER, CONDUIT BODY, 1 IN., BLANK, STAMPED STEEL, EM-59046 DAT	0000373127	EA	1
S	NIPPLE, PIPE, 1 IN. X 1-1/2 IN. LONG, SCH. 40, ASTM A-53 / A-1	0000553759	EA	1
T	CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR RUN TO #8 SOL OR 2 STRD	0000368544	EA	1
AD	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	0000356408	EA	5

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL METERING EQUIPMENT AND GROUNDS FOR PRIMARY METERING INSTALLATIONS.

SUPPLEMENTARY MATERIAL

(1) CUSTOMER TO PROVIDE AND INSTALL CECHA APPROVED METER CABINET AND MATERIAL IN TABLE-3.

(2) FROM C8550, OMIT ITEMS "A", "AA OR AD", AND "L". CONNECT GROUND WIRES AS SHOWN IN FIGURE-1, "3-WIRE GROUNDING" OR FIGURE-2, "4-WIRE GROUNDING".

(3) A 650V BYPASS PROTECTOR IS REQUIRED AND FURNISHED ONLY ON CURRENT TRANSFORMERS RATED 10 THROUGH 50 AMPERES.

INFORMATION

(11) CABINET MUST BE LEVEL AND PLUMB.

(12) BEND ITEM "M" TO FIT AFTER CABINET IS LEVEL.

(13) ENLARGE MOUNTING HOLES ON THIS SIDE OF CABINET FOR 1/2" BOLTS.

(14) ComEd TARIFFS PROVIDE FOR METER CABINET TO BE INSTALLED ON ComEd OWNED POLE OR CUSTOMER OWNED STRUCTURE IN CERTAIN PRIMARY METERING SITUATIONS.

(15) CASE GROUND POTENTIAL TRANSFORMERS, CURRENT TRANSFORMERS AND TERMINAL BOX, BY MOUNTING TO EQUIPMENT PLATFORM. EQUIPMENT PLATFORM IS GROUNDED TO PRIMARY GROUND ROD, AS CALLED FOR IN C9106, C9107, C9108, OR C9190.

(16) GROUND METER FITTING CASE TO THE SECONDARY GROUND ROD.

(17) FOR POLES WITH NO NEUTRAL CONDUCTOR, CONNECT DIRECTLY TO THE POLE GROUND.

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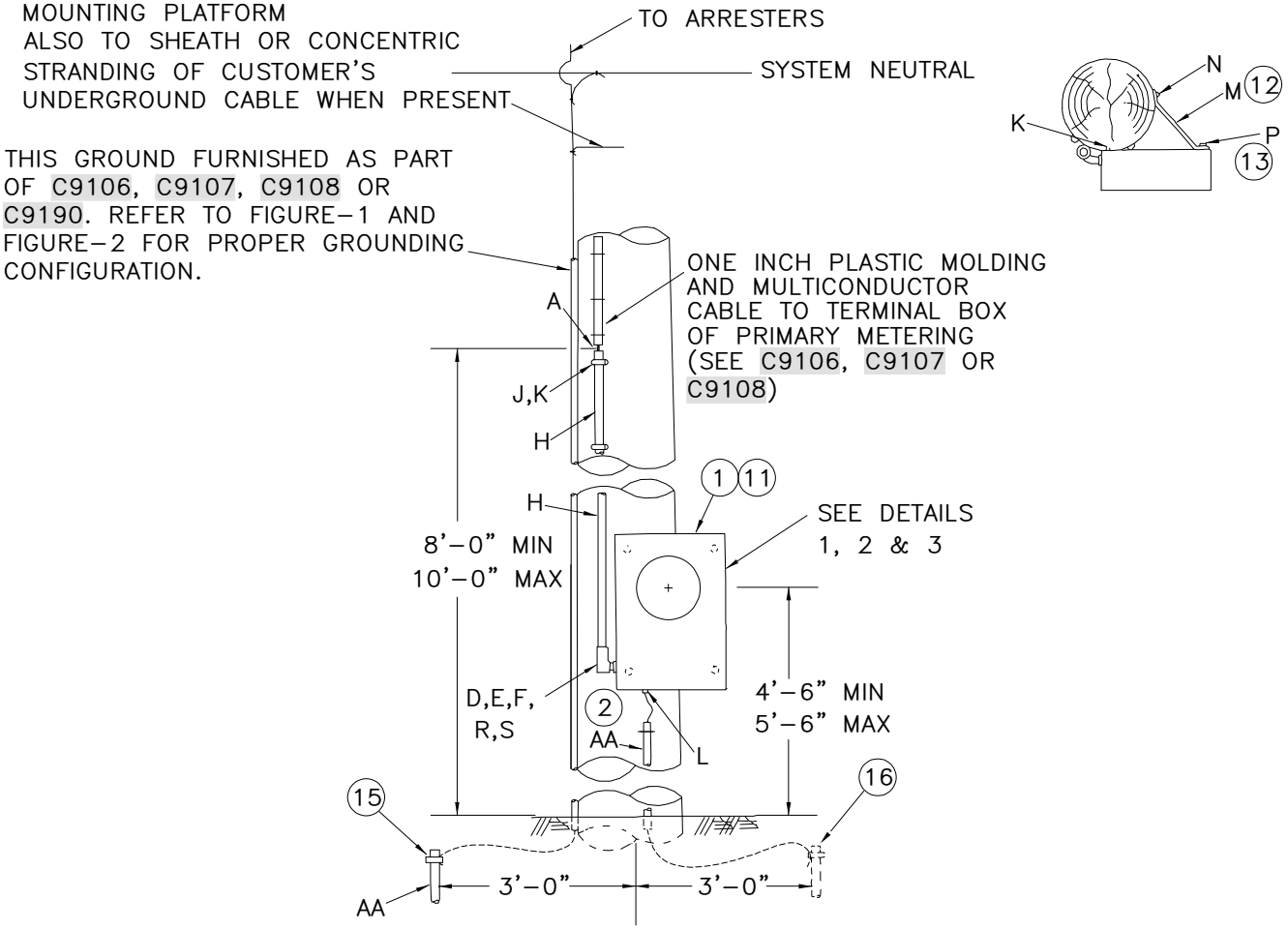
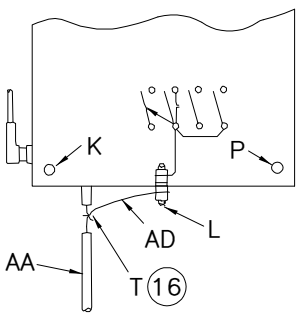
TO GROUND LUG OF EQUIPMENT MOUNTING PLATFORM ALSO TO SHEATH OR CONCENTRIC STRANDING OF CUSTOMER'S UNDERGROUND CABLE WHEN PRESENT

THIS GROUND FURNISHED AS PART OF C9106, C9107, C9108 OR C9190. REFER TO FIGURE-1 AND FIGURE-2 FOR PROPER GROUNDING CONFIGURATION.

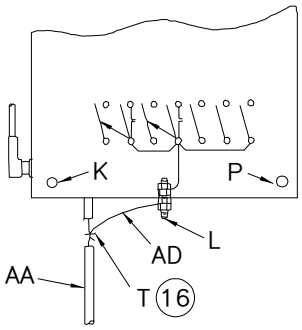


C9105.1_

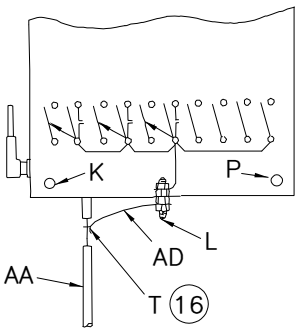
METER ON ComEd OWNED PRIMARY METERING POLE
(SEE DETAIL-4 FOR OVERALL PICTURE)



DETAIL-1
SINGLE PHASE



DETAIL-2
3-PHASE, 3-WIRE



DETAIL-3
3-PHASE, 4-WIRE

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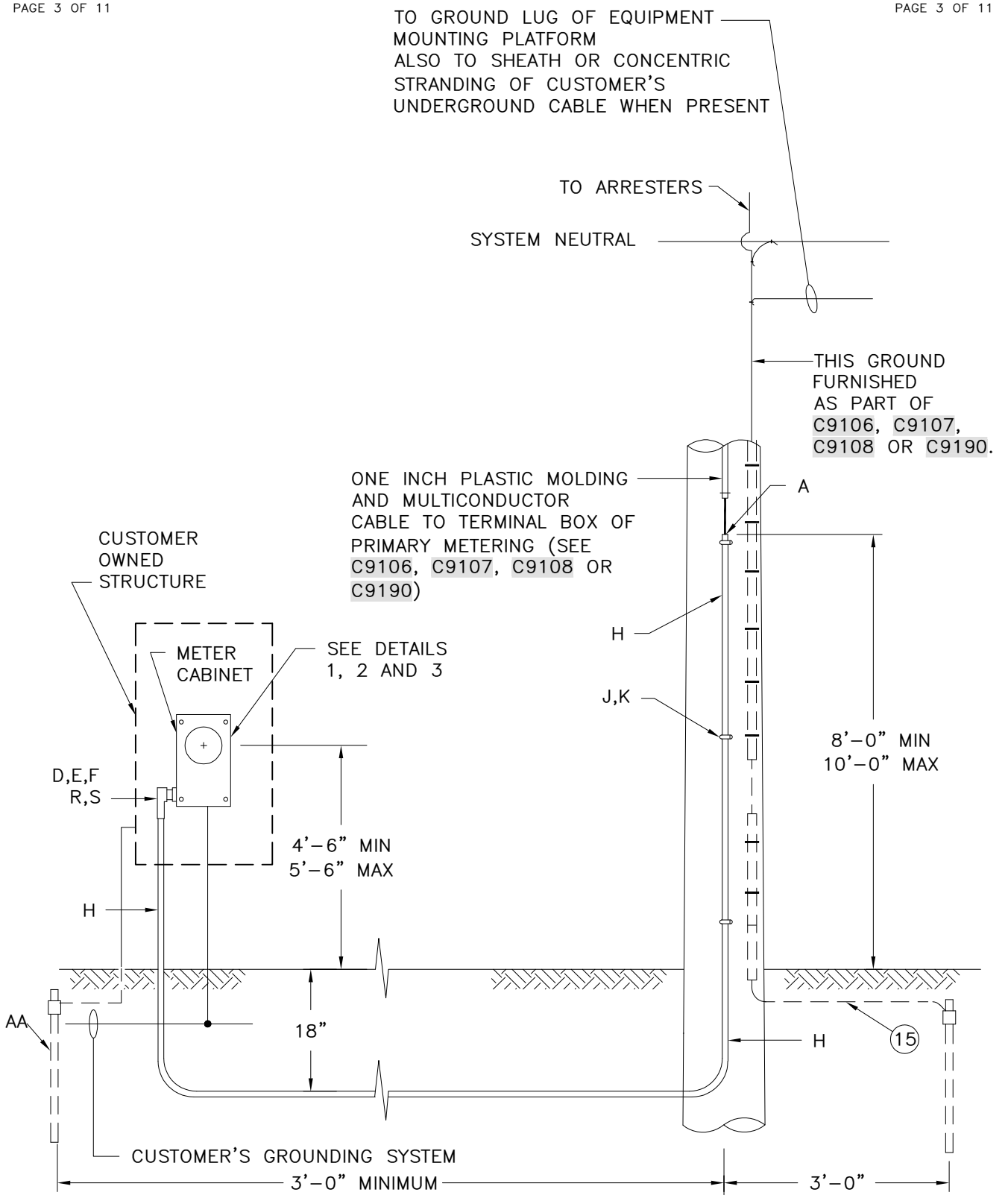

C9105.2_

METER ON CUSTOMER OWNED STRUCTURE
(SEE DETAIL-5 FOR OVERALL PICTURE)

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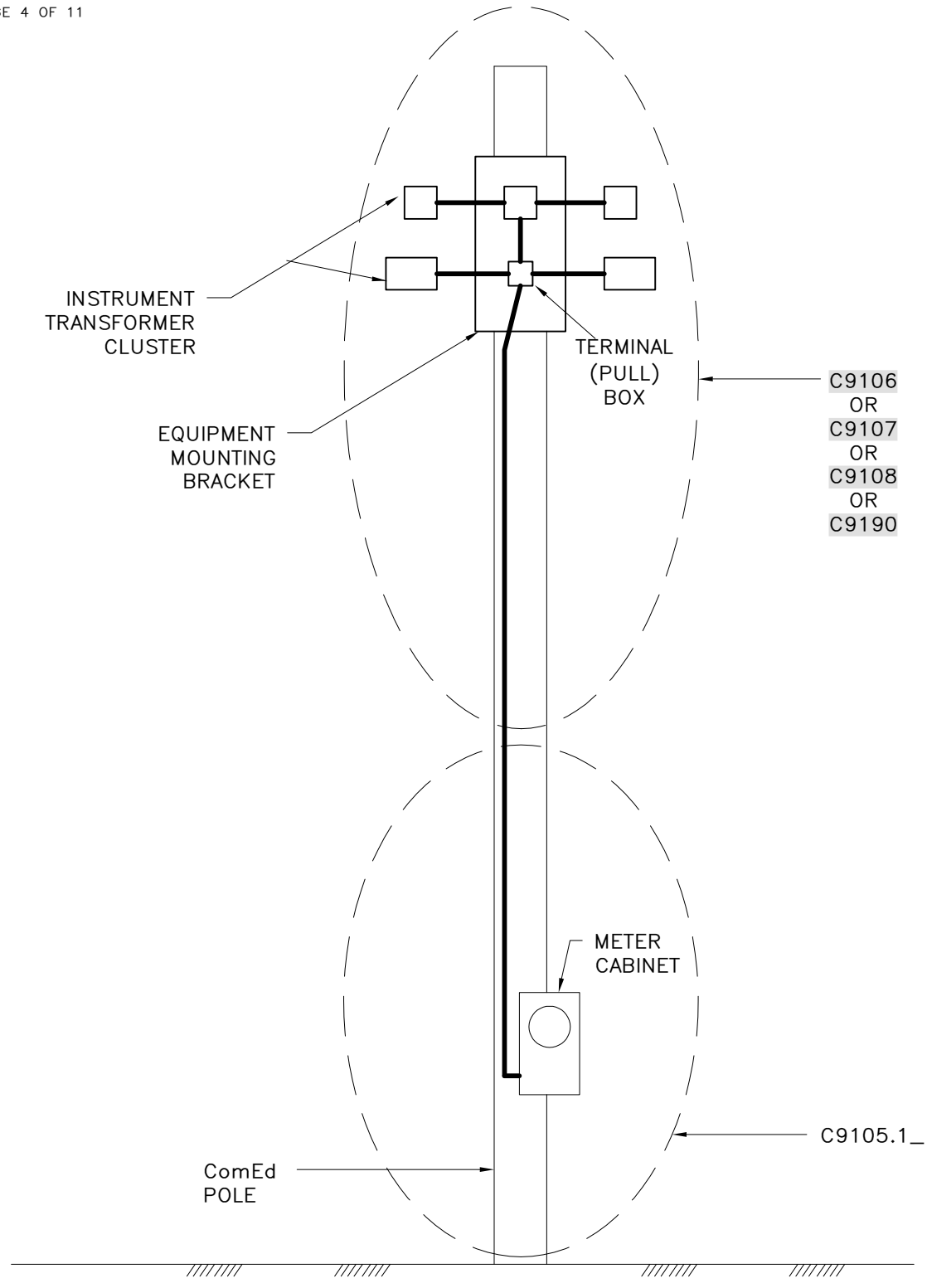

DETAIL-4

METER ON PRIMARY METERING POLE

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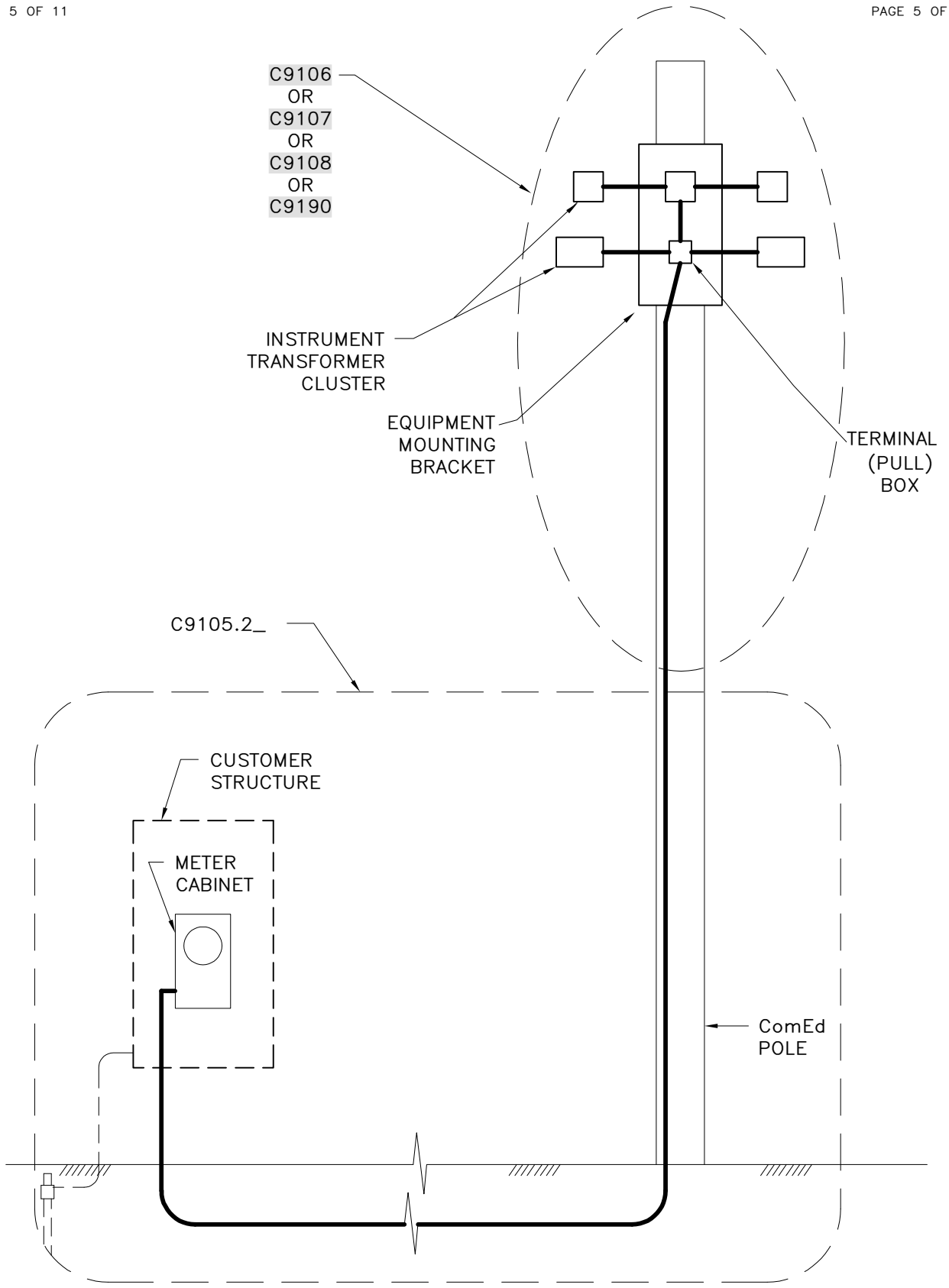

DETAIL-5

METER ON CUSTOMER OWNED STRUCTURE

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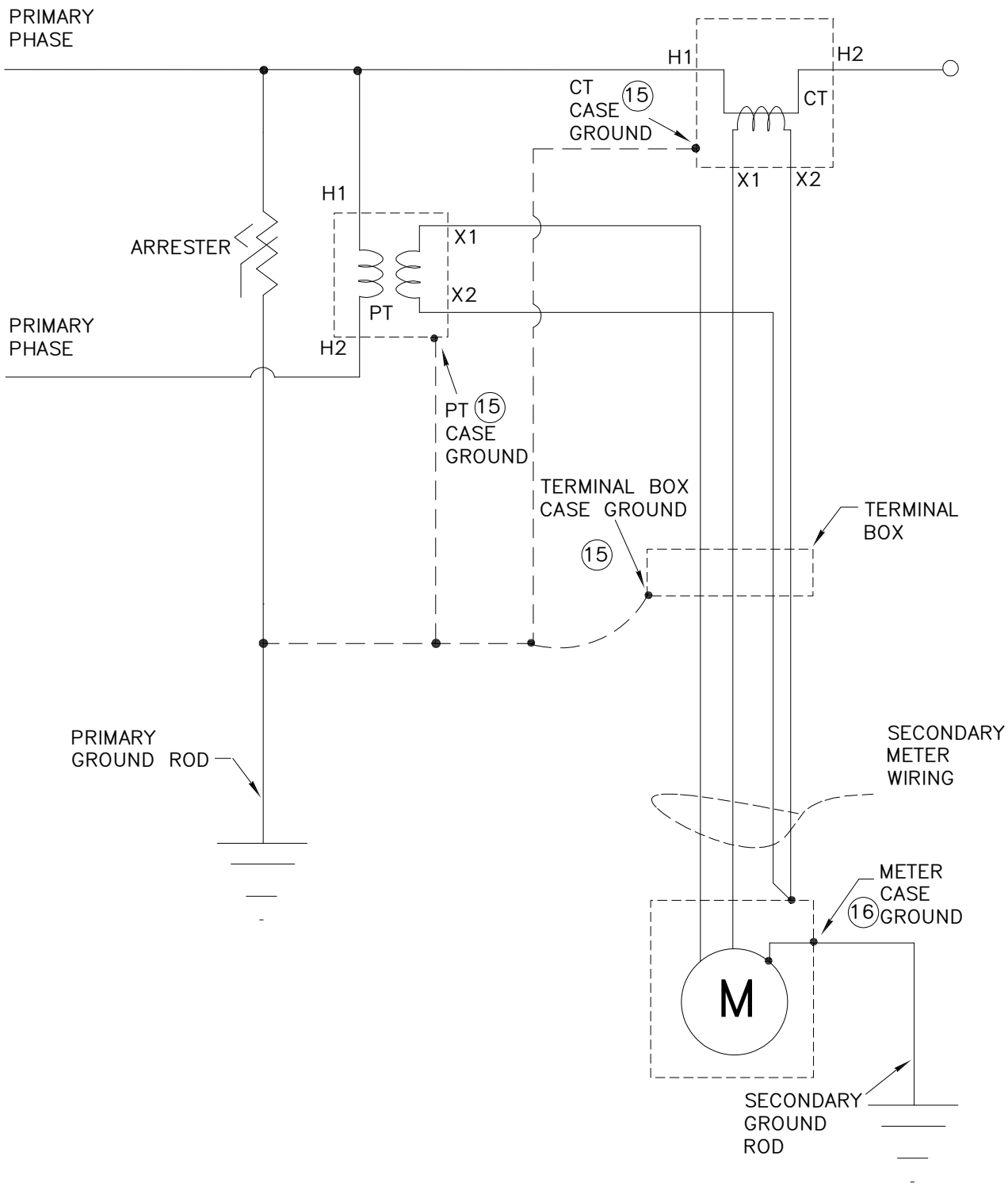

FIGURE-1

3-WIRE GROUNDING

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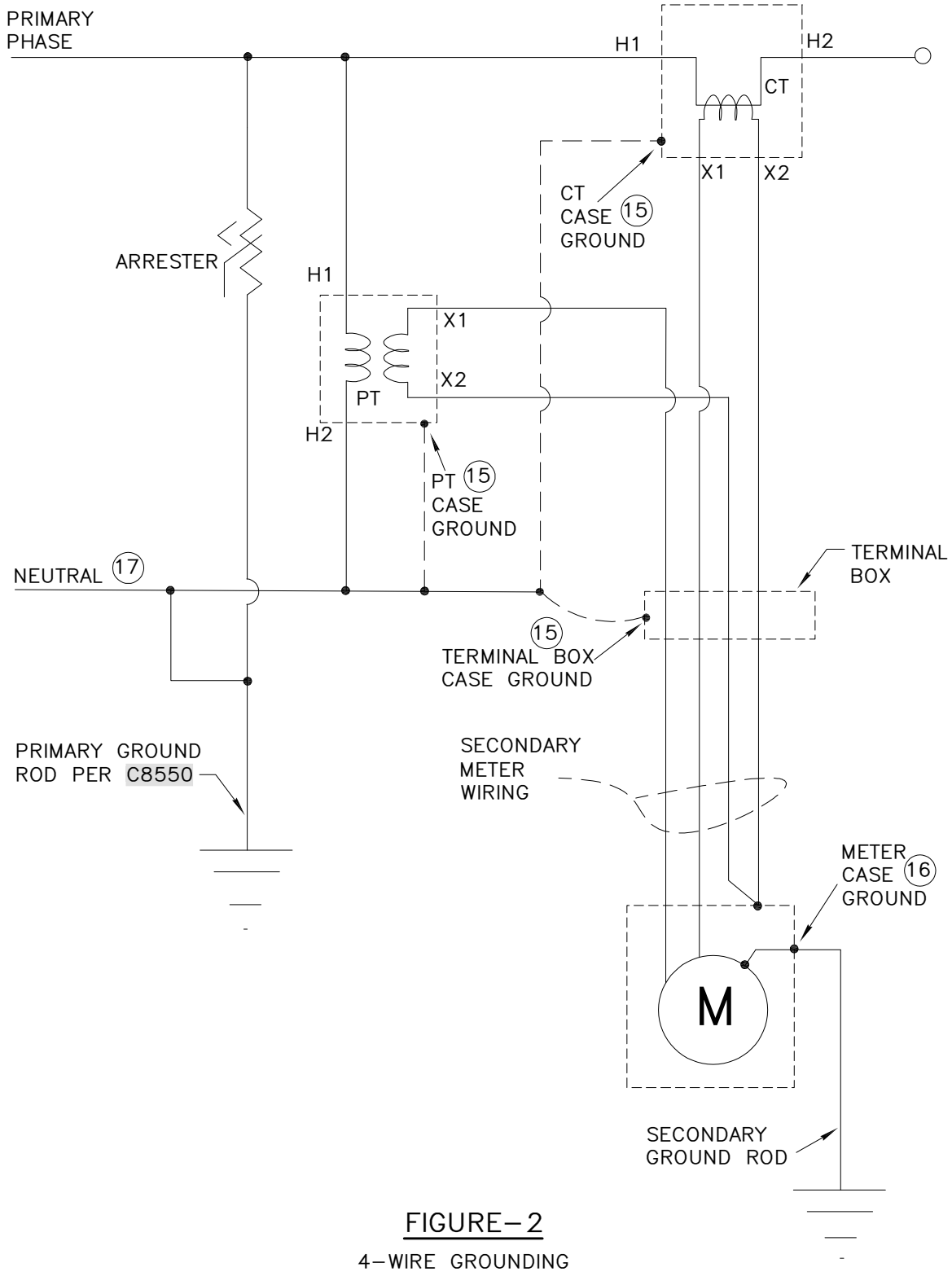

FIGURE-2

4-WIRE GROUNDING

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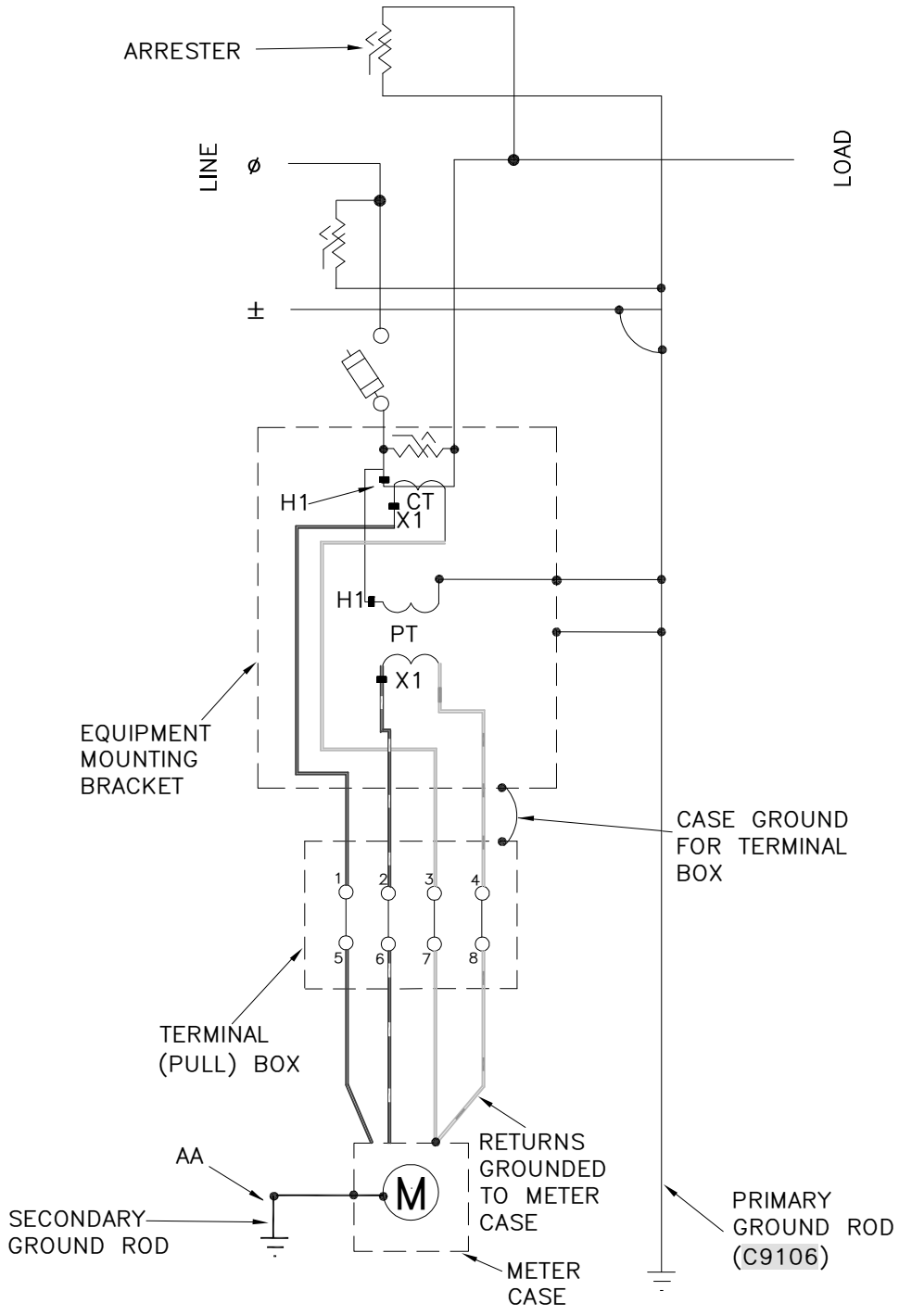

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
CT	1	RED	3	WHITE
PT	2	RED/ WHITE TRACER	4	WHITE/ORANGE TRACER

FIGURE-3

1-PHASE, 2 TRANSFORMER PRIMARY METERING

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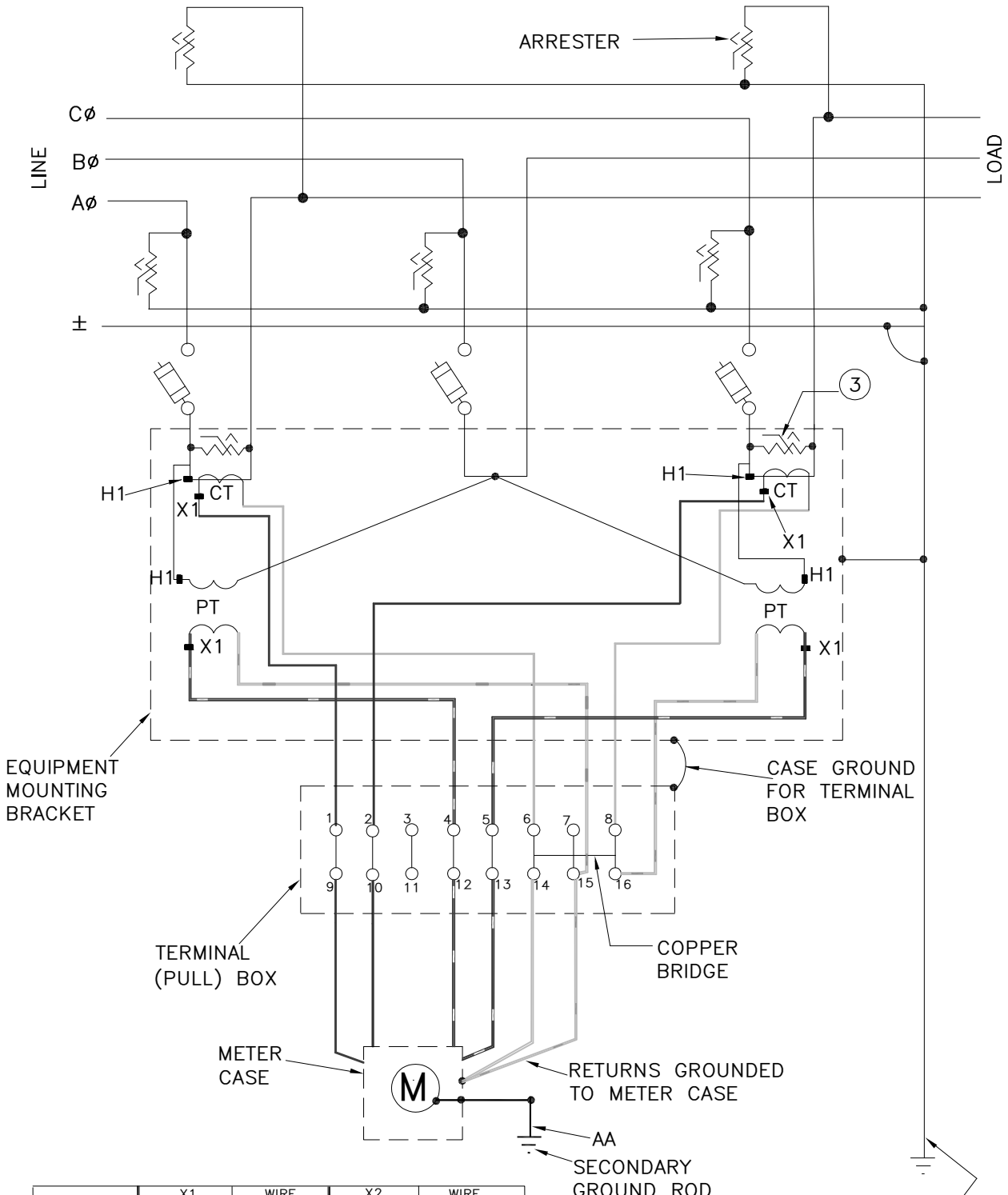

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
AØ CT	1	RED	6	WHITE
CØ CT	2	BLUE	8	WHITE
AØ PT	4	RED/ WHITE TRACER	15	WHITE/ORANGE TRACER
CØ PT	5	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-4

3-PHASE, 3-WIRE, 4 TRANSFORMER PRIMARY METERING

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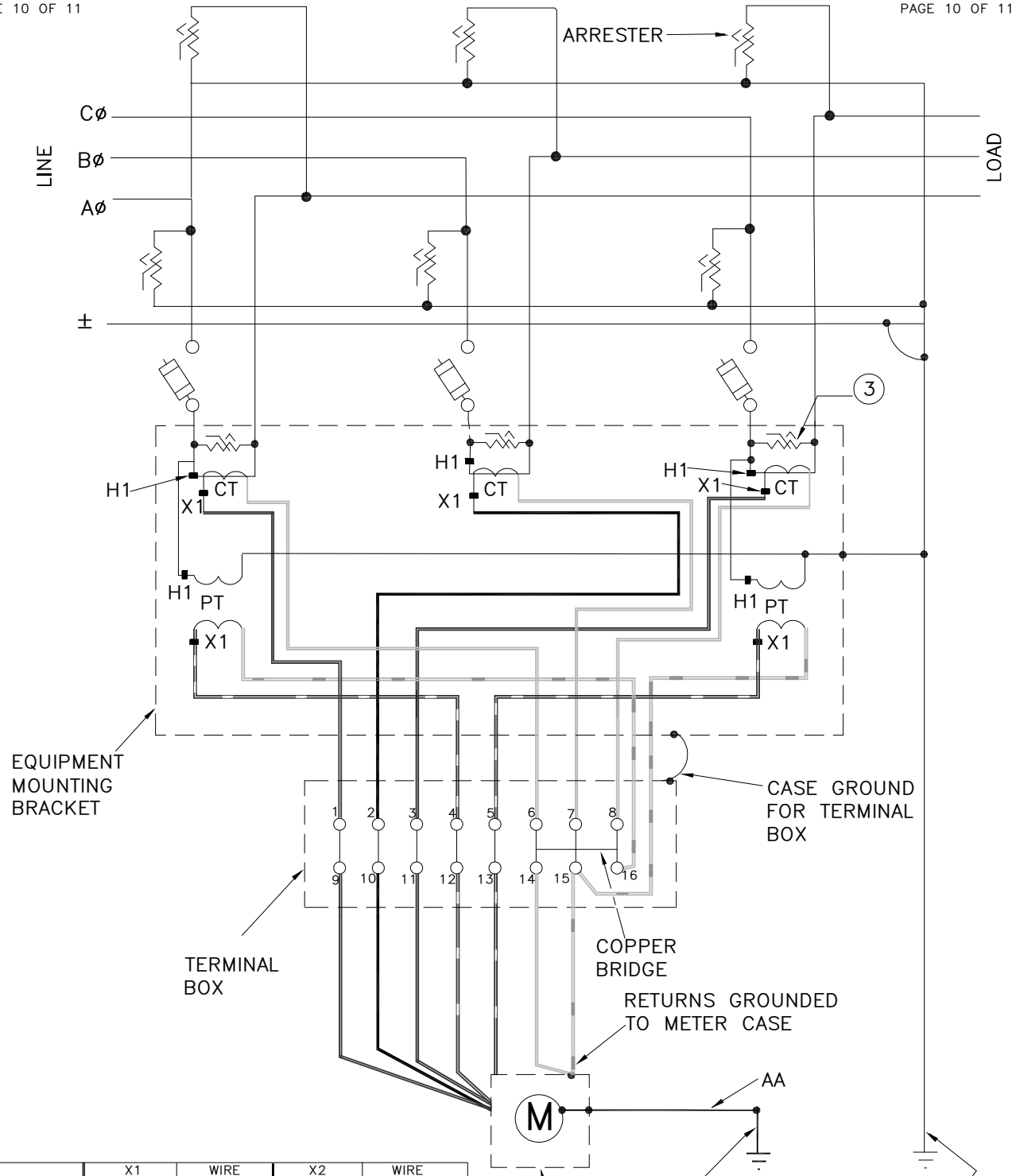

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	6	WHITE
Bø CT	2	BLACK	7	WHITE
Cø CT	3	BLUE	8	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Cø PT	5	BLUE/ WHITE TRACER	15	WHITE/ORANGE TRACER

FIGURE-5

3-PHASE, 4-WIRE, 5-TRANSFORMER CLUSTER

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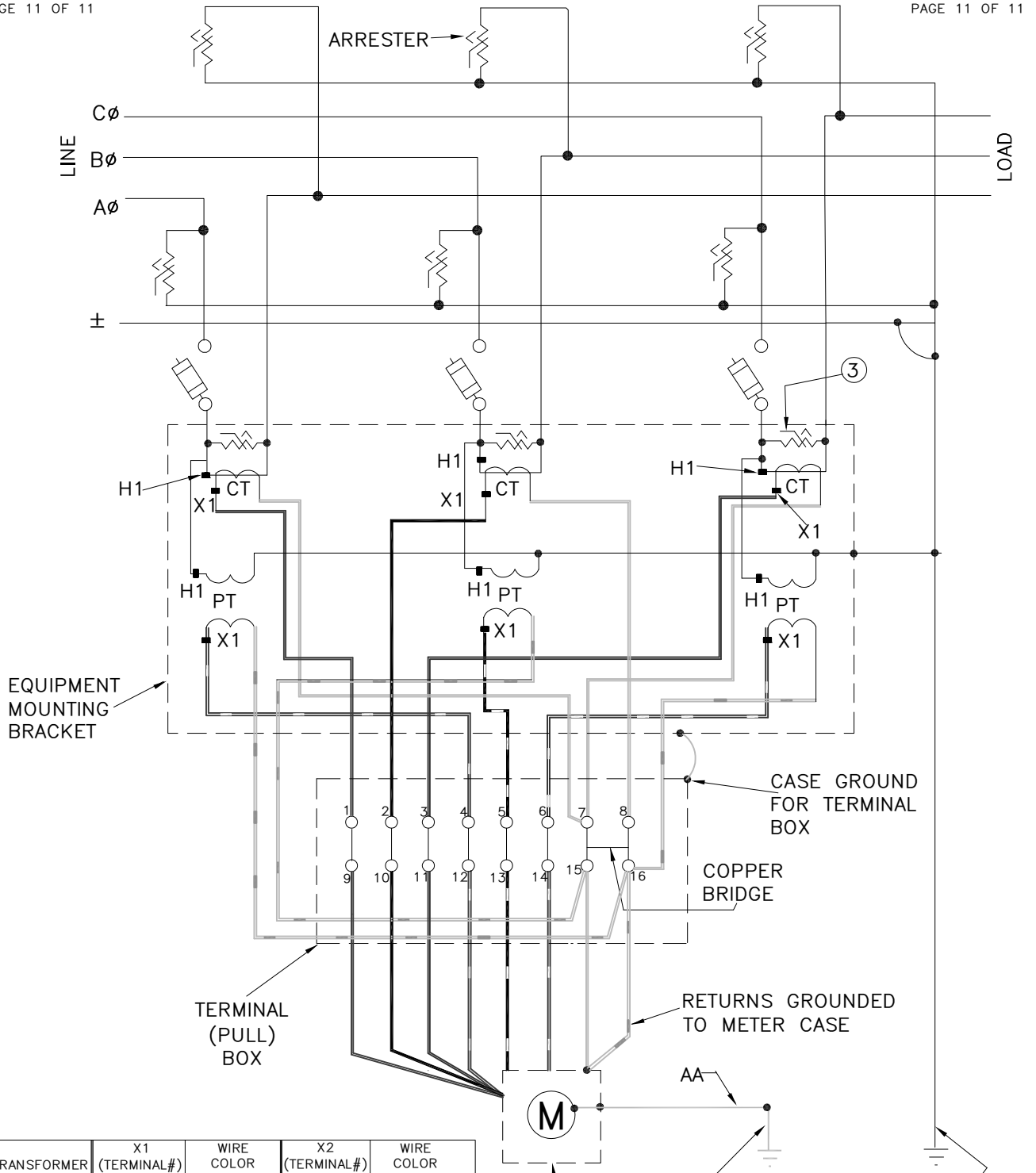

TRANSFORMER	X1 (TERMINAL#)	WIRE COLOR	X2 (TERMINAL#)	WIRE COLOR
Aø CT	1	RED	7	WHITE
Bø CT	2	BLACK	8	WHITE
Cø CT	3	BLUE	7	WHITE
Aø PT	4	RED/ WHITE TRACER	16	WHITE/ORANGE TRACER
Bø PT	5	BLACK/WHITE TRACER	15	WHITE/ORANGE TRACER
Cø PT	6	BLUE/ WHITE TRACER	16	WHITE/ORANGE TRACER

FIGURE-6

3-PHASE, 4-WIRE, 6-TRANSFORMER CLUSTER

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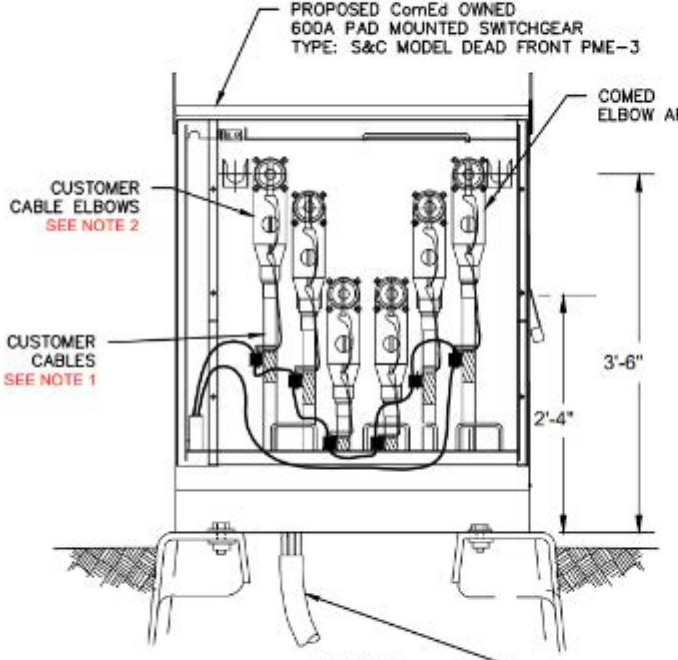
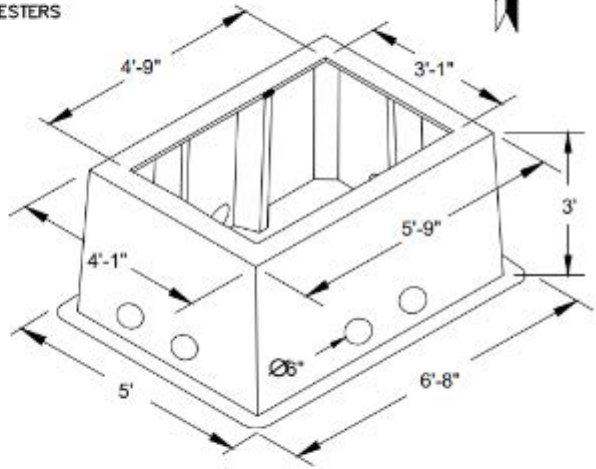
N DOCUMENT
52) ON C1723
NG, IL 60090

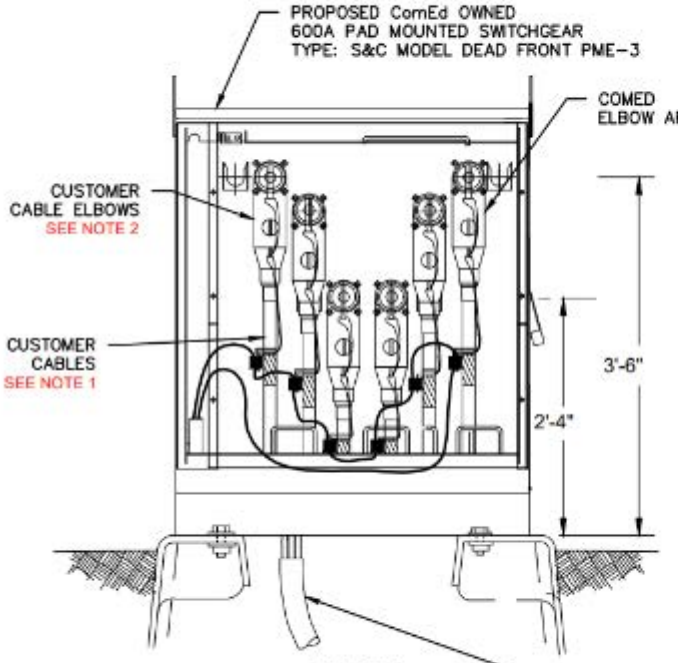


DETAIL 1
POINT OF INTERCONNECTION
(REAR VIEW - LOOKING EAST)

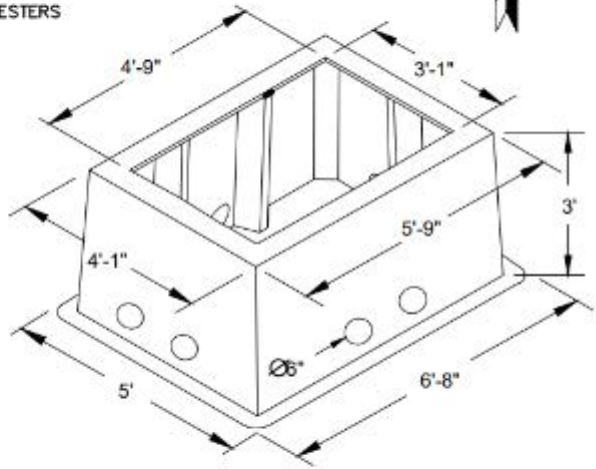


DETAIL 2
FOUNDATION DIMENSIONS
PRIMARY METER & SWITCHGEAR

N DOCUMENT
52) ON C1723
NG, IL 60090



DETAIL 1
POINT OF INTERCONNECTION
(REAR VIEW - LOOKING EAST)



DETAIL 2
FOUNDATION DIMENSIONS
PRIMARY METER & SWITCHGEAR

Eaton STS368ND3-1C00

Catalog Number: STS368ND3-1C00

Eaton shunt trip safety switch, with AFGF relay, 1200 A, Three-pole, 600 Vac, 250 Vdc, 120 Vac, NEMA 12, NEMA 3R, Fusible, 600 V



General specifications

Product Name	**Catalog Number**
Eaton shunt trip safety switch	STS368ND3-1C00
UPC	**Product Length/Depth**
786689369712	23.15 in
Product Height	**Product Width**
72.5 in	47.23 in
Product Weight	**Certifications**
405 lb	UL Listed cUL Certified

Powering Business Worldwide

Physical Attributes

Enclosure

NEMA 12, NEMA 3R

Number Of Poles

Three-pole

Type

Shunt trip safety switch w/ AFGF relay

Performance Ratings

Amperage Rating

1200A

Coil voltage

120 Vac

Protection

Fusible

Voltage rating

600 Vac, 250 Vdc

Resources

Multimedia

Double Up on Safety

ARMS Enclosed Circuit Breaker

Switching Devices Flex Center

Specifications and datasheets

Eaton Specification Sheet - STS368ND3-1C00

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Eaton House
30 Pembroke Road
Dublin 4, Ireland
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Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible

For North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

INVERTER



12-20 YEAR WARRANTY

Made in the USA from imported parts

SOLAREDGE'S USA-MANUFACTURED OFFERING FOR C&I ROOFTOPS AND CARPORTS

- Eligible for domestic content*: SolarEdge USA-manufactured inverters, when paired with certain SolarEdge USA-manufactured power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy units and one Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored** and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

* For more details, see Eligibility for Domestic Content on the last page.

** Applicable only for DC and AC SPDs.

/ Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers	SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number	**SE80KUS**	**SE50KUS**	**SE100KUS**	**SE110KUS**	**SE120KUS**	**UNITS**
OUTPUT						
Total Rated AC Output Capacity	80,000	120,000				W
Rated AC Active Output Power	80,000	50,000	100,000	110,000	120,000	W
Maximum AC Apparent Output Power	80,000	50,000	100,000	120,000	120,000	VA
AC Output Line Connections	3W + PE, 4W + PE					
Supported Grids	WYE: TN-C; TN-S; TN-C-S; TT, IT; Delta: IT					
AC Output Voltage Minimum-Nominal-Maximum[1] (L-N)	244 – 277 – 305	105 – 120 – 132.5	244 – 277 – 305			Vac
AC Output Voltage Minimum-Nominal-Maximum[1] (L-L)	422.5 – 480 – 529	183 – 208 – 229	422.5 – 480 – 529			Vac
AC Frequency Minimum-Nominal-Maximum[1]	59.5 – 60 – 60.5					Hz
Maximum Continuous Output Current (per phase, PF=1)	96.5	139.5	120	144.3		Aac
GFDI Threshold	1					A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes					
Total Harmonic Distortion	≤ 3					%
Power Factor Range	±0.85 to 1					
INPUT[2]						
Maximum DC Power (Module STC) Inverter / Synergy Unit	140,000 / 70,000	87,500 / 29,165	175,000 / 58,300	210,000 / 70,000		W
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage DC+ to DC-	1000	600	1000			Vdc
Operating Voltage Range	850 – 1000	370 – 600	850 – 1000			Vdc
Maximum Input Current	2 x 48.25	3 x 46.5	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[3]					
CEC Weighted Efficiency	98.5	97	98.5			%
Nighttime Power Consumption	< 8	< 12				W
ADDITIONAL FEATURES						
Supported Communication Interfaces[4]	2 x RS485; Ethernet; Wi-Fi (optional); Cellular (optional)					
Smart Energy Management	Export Limitation					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection					
Arc Fault Protection	Built-in, user configurable (according to UL 1699B)					
Photovoltaic Rapid Shutdown System	NEC 2014 – 2023, built-in, if paired with C651U					
PID Rectifier	Nighttime, built-in					
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated					
AC, DC Surge Protection	Type II, field replaceable, integrated					
DC SAFETY SWITCH						
DC Disconnect	Built-in					
STANDARD COMPLIANCE						
Safety	UL 1699B; UL 1741; UL 1741 SA; UL 1741 SB; UL 1998; CSA C22.2#107.1; Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (HI)					
Emissions	FCC Part 15 Class A					

(1) For other regional settings please contact SolarEdge support.
(2) For compatibility of inverters and power optimizers, see this technical note.
(3) Where permitted by local regulations.
(4) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

Three Phase Inverter with Synergy Technology

USA Domestic Content Eligible for North America

SE50KUS / SE80KUS / SE100KUS / SE110KUS / SE120KUS

Applicable to inverters with part numbers		SE-DBL-USxxIBNxx	SE-TRI-USxxIBNxx				
Model Number		SE80KUS	SE50KUS	SE100KUS	SE110KUS	SE120KUS	UNITS
INSTALLATION SPECIFICATIONS							
Number of Synergy Units per Inverter		2	3				
AC Maximum Conduit Size		2 ½"					in
AC Maximum Conductor Size Line / PE		4/0 AWG / 1/0 AWG					
DC Maximum Conduit Size		1 x 3"; 2 x 2"					in
Inverter Unit / Synergy Manager	Multi-input (fuse-less)[5] (SE-xxx-USxxIxxSx)	6 / 3 pairs; 6 – 12 AWG	9 / 3 pairs; 6 – 12 AWG				
	Combined input (fuse-less) (SE-xxx-USxxIxxWx)	N/A	3 pairs / 1 pair, 2 – 4 AWG; copper or aluminum				
Dimensions (H x W x D)		Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295					in / mm
Weight		Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18					lb / kg
Operating Temperature Range		-40 to +140 / -40 to +60[6]					˚F / ˚C
Cooling		Fan (user replaceable)					
Noise		< 67					dBA
Protection Rating		NEMA 3R					
Mounting		Brackets provided					

(5) Fusing is not included with the multi-input version of the Synergy Manager.
(6) For power derating information, see the Temperature Derating technical note for North America.

*Eligibility for Domestic Content

As it relates to the domestic content rules, the U.S. Department of Treasury and the IRS have not yet issued proposed or final regulations. Rather, the IRS has issued three notices - Notice 2023-38, Notice 2024-41 and Notice 2025-08. These notices provide guidance regarding the domestic content rules. SolarEdge products referenced herein are manufactured with the intent to be eligible for inclusion under the elective safe harbor table in calculating the Domestic Cost Percentage under the "Rooftop (MLPE)" category (under IRS Notices 2024-41 and 2025-08, depending on the PN used – see chart below). Eligibility is subject to the installation of qualified USA-Manufactured inverters and Power Optimizers (C651U) in the same project. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% Domestic Content bonus, to determine how the applicable rules apply to your project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

PN	Domestically produced MPCs per notice 2024-41*	Domestically produced MPCs per notice 2025-08*
USESUK-USR0INNN**6**, when paired with C651U	Printed Circuit Board Assemblies, Electrical Parts, Enclosure (35.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)
USESUK-USR0INNN**8**, when paired with C651U	Printed Circuit Board Assemblies, Enclosure (17.6%)	Printed Circuit Board Assemblies (DC-DC) and (AC-AC), Enclosure, Production (24.8%)

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.



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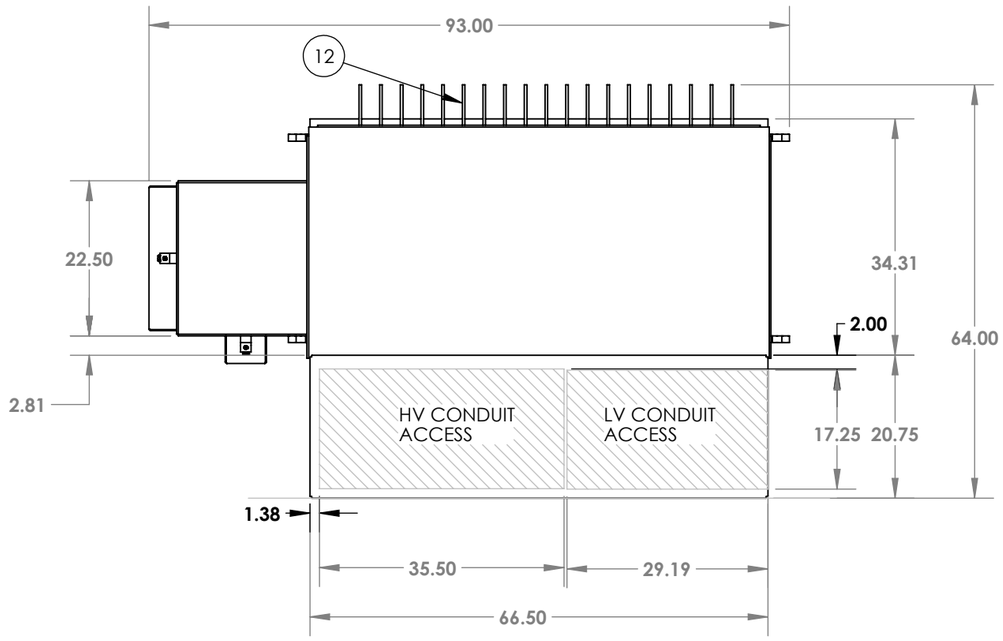
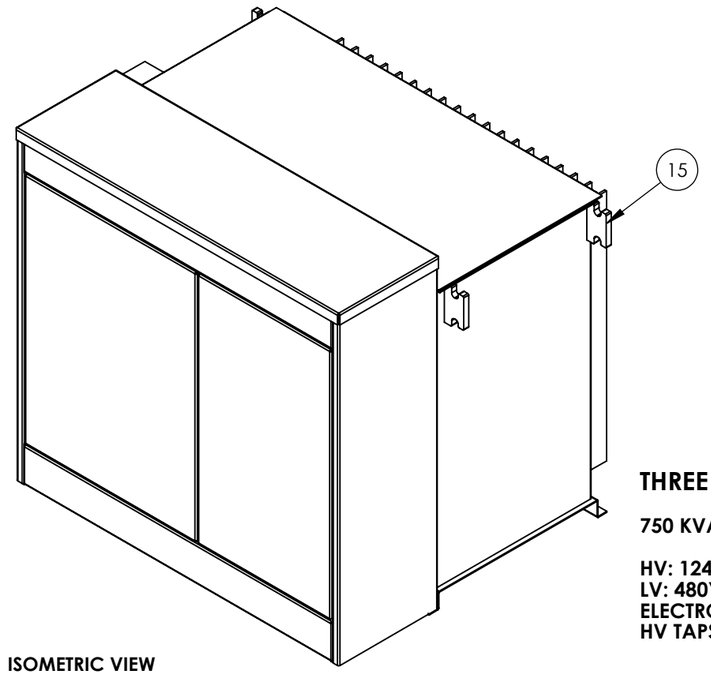
Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

CE

solaredge



TOP VIEW



ISOMETRIC VIEW

ITEM NO.	PART NUMBER
1	TAP CHANGER (DE-ENERGIZED OPERATION)
2	2 POSITION BOX ASSEMBLY
3	WELLS &15 KV INSERTS
4	10KV ELBOW ARRESTER
5	PARKING STANDS
6	LV BUSHING - 6 HOLE
7	LIQUID LEVEL GAUGE W/ C0NTACT
8	THERMOMETER W/ CONTACT
9	PRESSURE VACUUM GAUGE W/ CONTACT
10	TERMINAL BLOCK (MCMASTER-CARR: 7527K53)
11	BAYONET W/ CURENT LIMITING
12	RADIATORS
13	DRAIN & SAMPLE VALVE
14	GROUND PAD
15	LIFT LUG

THREE PHASE PADMOUNT TRANSFORMER

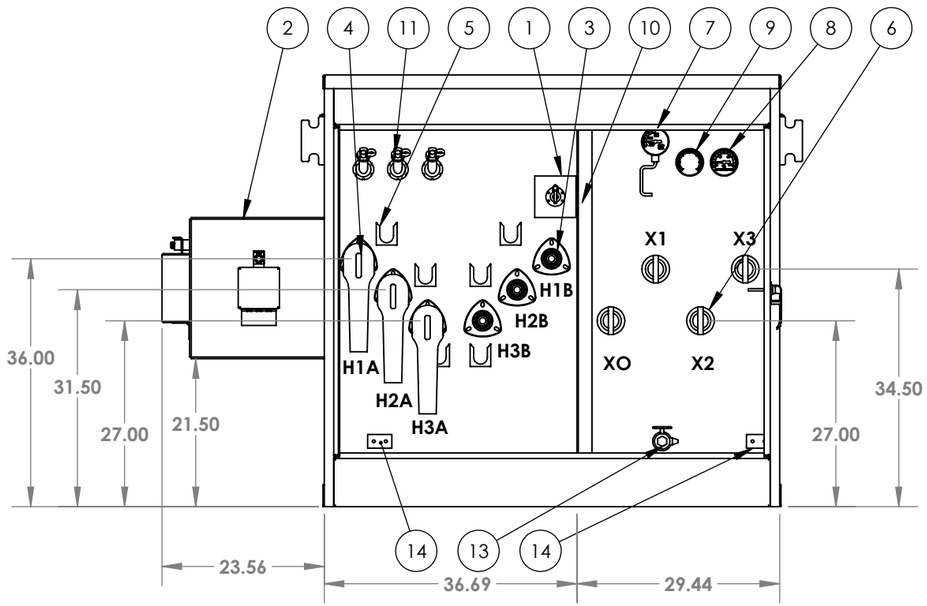
750 KVA AT 65 DEGREES C RISE KNAN

HV: 12470 DELTA BIL: 95KV
LV: 480Y/277 BIL: 30KV
ELECTRO STATIC SHIELD
HV TAPS: -/+ 5%

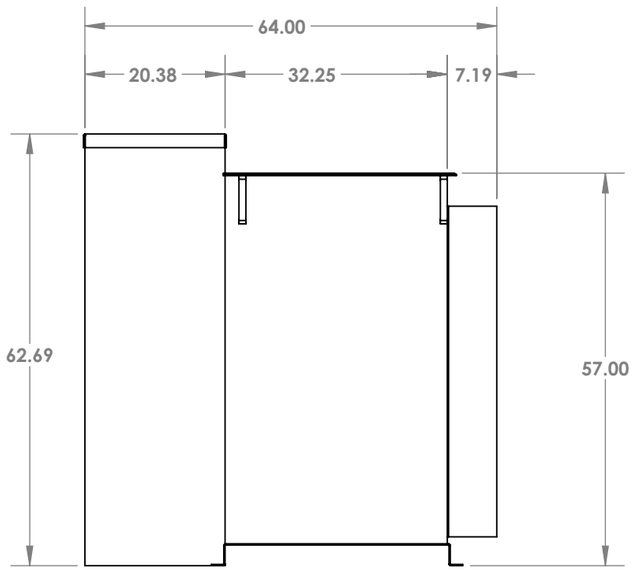
APPROXIMATE WEIGHTS & GALLONS

MAIN OIL GALS:	377 GAL. - FR3
CORE & COILS:	3,651 LBS.
TANK & FITTINGS:	1,921 LBS.
MAIN OIL WT:	2,828 LBS.
TOTAL WT:	8,400 LBS.

*****WEIGHTS AND GALLONS ARE NOT FINAL UNTIL AFTER DESIGN*****



FRONT VIEW



RIGHT VIEW

Drawing For Approval

	BY	DATE
___ APPROVED FOR FABRICATION		
___ APPROVED FOR FABRICATION AS NOTED		
___ RESUBMIT AS NOTED		

Transformer will not be realeased to scheduling until drawing is approved

NOTE: ALL DIMENSIONS & WEIGHTS ARE APPROXIMATE. THE NUMBER AND PRECISE LOCATIONS OF GAUGES, VALVES, PRESSURE RELIEF'S, BUSHINGS, AND OTHER COMPONENTS IS SUBJECT TO CHANGE BEFORE UNIT IS COMPLETE.

TITLE:	THREE PHASE PADMOUNT	CUSTOMER:	SOLAR LANDSCAPE, LLC			REVISION:	
IC #	122014748	WORK ORDER #	445149	SALES ORDER #	339918		
DRAWN BY:	MC	DATE:	03/26/25	CHECKED BY:	DATE:	DRAWNING TYPE:	APPROVAL

PROPRIETARY AND CONFIDENTIAL

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UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES

SHEET 1 OF 1

SUNBELT SOLOMON

LANDSCAPE: ESTIMATED OPINION OF PROBABLE COSTS
CS IL 1042 MILWAUKEE AVE
WHEELING, ILLINOIS
25000706
March 5, 2026

ITEM	UNIT COST	Unit	QUANTITY	EXTENSION
PLANTING-BED PREPARATION AND FINISHING				
Bed Preparation	$0.75	SF	740	$555.00
Shredded Hardwood Mulch	$46.00	CY	6.851851852	$315.19
Subtotal Planting-Bed Preparation and Finishing				$870.19
PLANTING-TREES				
Evergreen trees (5' ht)	$350.00	EA	14	$4,900.00
Ornamental trees (2" cal.)	$250.00	EA	1	$250.00
Subtotal Planting-Trees				$5,150.00
PLANTING-SHRUBS				
Deciduous shrubs (5 gal)	$60.00	EA	12	$720.00
Deciduous shrubs (3 gal)	$50.00	EA	5	$250.00
Subtotal Planting-Shrubs				$970.00
PLANTING-PERENNIALS, GROUNDCOVERS AND ORNAMENTAL GRASSES				
Ornamental grass (1 gal)	$15.00	EA	64	$960.00
Perennial (1 gal)	$15.00	EA	28	$420.00
Subtotal Planting-Perennials, Groundcovers and Ornamental Grasses				$1,380.00
PLANTING-TURF AND NATIVE SEEDING				
Seed and Blanket	$1.75	SY	287.1111111	$502.44
Subtotal Planting-Turf and Native Seeding				$502.44

SUBTOTAL CONSTRUCTION COSTS	**$8,872.63**
15% PROJECT CONTINGENCY	**$1,330.89**
TOTAL PROBABLE CONSTRUCTION COSTS	**$10,203.52**

LANDSCAPE ARCHITECT'S OPINION OF PROBABLE COST – ATWELL, LLC's Opinions of Probable Cost provided for herein, are to be made on the basis of ATWELL, LLC's experience and qualifications and represents ATWELL, LLC'S judgment as an experienced and qualified professional Landscape Architect generally familiar with the construction industry. However, because ATWELL, LLC has no control over the cost of labor, materials, equipment or services furnished by others, the Contractor's methods of determining prices, or competitive bidding or market conditions, ATWELL, LLC cannot and does not warrant, represent or guarantee that proposals, bids or actual construction cost will not vary from ATWELL, LLC's Opinions of Probable Cost.

MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PV26-0005, Request for a Variation to Increase the Maximum Fence Height Associated with Facility Upgrades for the Village of Wheeling (77 W. Hintz. Rd.). **PUBLIC HEARING**
RECOMMENDED ACTION: **Recommend approval of Docket No. PV26-0005** granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10.070, Accessory Uses and Structures, and associated sections, to permit an increase in the maximum permitted fence height from 6 feet to 8 feet for the Village of Wheeling, located at 77 W Hintz Road, in accordance with the Project Description Letter prepared by Kyle Goetzelmann, dated 3/9/2026; and Site Plan dated 3/10/2026, and subject to the following condition:

1. Approval of the variance is contingent upon approval of PSPMIN26-0003 (minor site plan and building appearance approval).

EXECUTIVE SUMMARY

Docket No. PV26-0005: The Village of Wheeling, property owner, is seeking a variation to permit an increase in the maximum permitted fence height from 6 feet to 8 feet for the property located at 77 W. Hintz Road, as required in Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10.070, Accessory Uses and Structures, and associated sections.

GENERAL PROPERTY INFORMATION

Petitioner: Village of Wheeling

Location: 77 W. Hintz Road

Property size: 12 acres

Neighboring Property Land Use(s):
North: Industrial (across W. Hintz Road)
East/West/South: Industrial

Existing Use of Property: Village of Wheeling Public Works Facility

Existing Zoning: I-4, Heavy Industrial

Comprehensive Plan Designation: Industrial

Zoning History:

- Ordinance No. 4345, approved 7/21/2008, granting special use approval for the Public Works facility (docket #2008-18).

SUMMARY OF REQUEST

The Village of Wheeling is requesting a variation to increase the maximum permitted fence height from 6 feet to 8 feet for the property located at 77 W. Hintz Road. The requested variation is associated with the reconstruction of the vehicle fueling area at the Village's Public Works facility, which the petitioner is also seeking Minor Site Plan and Appearance

approval (Docket No. PSPMIN26-0003).

VARIANCE

A variation is to grant relief from the literal requirements of the zoning ordinance when unique circumstances, applicable to the property, deprive it from enjoying privileges commonly enjoyed by other properties in the same zoning district. After review of the Standards summarized in this staff report, the Commission must find beyond a reasonable doubt that all of the standards are met.

As detailed in Docket No. PSPMIN26-0003, the Village will be performing a facility upgrade of the existing vehicle fueling area at the Public Works Facility that includes replacement of the existing underground storage tanks with a 12,000-gallon aboveground storage tank and replacing the existing fueling area canopy. With the installation of the new fuel tank being above ground, the tank will need to be enclosed by an 8 foot tall black vinyl coated chain link fence with barbed wire and protective bollards. Accordingly, a fence height variation is being requested to permit the installation of an 8 foot tall fence to surround the aboveground storage tank. The fueling area and associated fence are located within the rear of the Wheeling Public Works Facility and not visible from the adjacent roads and neighboring properties; therefore, the visual impact of the increased fence height will be negligible.

Standards for Variation: Following are the petitioner's responses to the standards for variation for the variance request.

1. **State how the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a practical difficulty or particular hardship upon or for the owner, lessee or occupant, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.**

   The required height of the aboveground fuel storage tank necessitates a taller fence in order to provide a fully secured enclosure. Strict adherence to the 6-foot height limitation would result in inadequate enclosure for the aboveground tank.

2. **Indicate how the hardship is due to unique circumstances that do not generally apply to the other properties or uses.**

   The operational requirements of the Public Works facility necessitate a fuel storage tank of a size and height that exceeds typical installations. This condition creates the need for a taller fence to effectively secure the equipment, which does not generally apply to other properties or uses.

3. **Describe how the alleged difficulty or hardship has not been created by any person presently having an interest in the property.**

   The requested variation is a result of specific equipment size and configuration necessary to meet the operational needs of the Village of Wheeling, adequate security would not be provided within the 6-foot fence height limit.

4. **State how the property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in that zone.**

   Without the requested variation, the aboveground tank equipment would not be fully enclosed, which could raise safety and security concerns, including increased accessibility and visibility to the public.

5. **State how the granting of the variation will not alter the essential character of the locality.**

   The property is currently developed and used for Public Works operations. The proposed fence height increase will not alter the existing use, traffic patterns, or overall function of the site. As such, the essential character of the surrounding area will remain unchanged.

6. **Describe how the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets, or increase the danger of fire, or endanger the public safety, or substantially diminish or impair property values within the neighborhood.**

   The proposed 8 foot tall fence will not adversely affect light, air, or visibility for adjacent properties, nor will it increase traffic congestion, fire risk, or public safety concerns. The fenced area is located approximately 50 feet from the nearest property line, minimizing any potential impact. Additionally, the variation will not diminish property values within the surrounding area.

STAFF REVIEW

Fire Department Review: No comments related to the Special Use.

Engineering Division Review: No comments related to the Special Use.

Staff Recommended Action: Staff recommends approval of the variance request subject to the following condition:

1. Approval of the variance is contingent upon approval of PSPMIN26-0003 (minor site plan and building appearance approval).

****

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of a variation, the appropriate motion would be to:

Recommend approval of Docket No. PV26-0005granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10.070, Accessory Uses and Structures, and associated sections, to permit an increase in the maximum permitted fence height from 6 feet to 8 feet for the Village of Wheeling, located at 77 W Hintz Road, in accordance with the Project Description Letter prepared by Kyle Goetzelmann, dated 3/9/2026; and Site Plan dated 3/10/2026, and subject to the following condition:

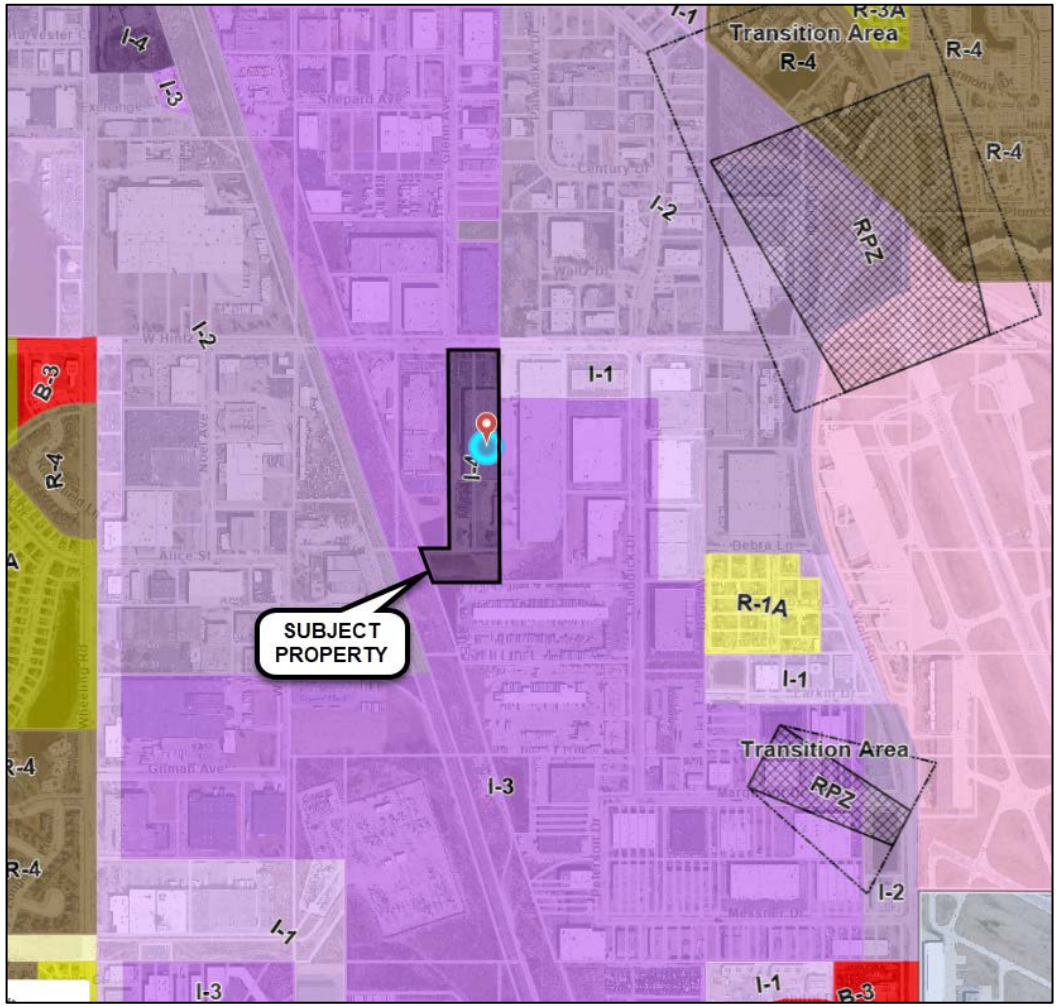
1. Approval of the variance is contingent upon approval of PSPMIN26-0003 (minor site plan and building appearance approval).

ATTACHMENTS:

Attachments to Staff Report (Staff)
Project Description Letter prepared by Kyle Goetzelmann, dated 3/9/2026
Site Plan dated 3/10/2026



LOCATION MAP



ZONING MAP



View of existing vehicle fueling area facing south.



View of existing vehicle fueling area facing north.

VILLAGE OF WHEELING
PUBLIC WORKS

March 9, 2026

Marcy Knysz, AICP
Village Planner
Village of Wheeling
2 Community Blvd
Wheeling, IL 60090

Re: Project Narrative – Public Works Above Ground Fuel Tank Installation

In October of 2025, Village of Wheeling staff was informed by the Office of the State Fire Marshall (OSFM) that the Village-owned fuel tanks located at the Public Works facility have failed inspection due to a leak into the interstitial space between the two tank hulls. The contractor identified the main cause of the premature failure was related to the high water table at the facility, which resulted in constant external hydraulic pressure on the external hull of the tank. This led to an interstitial leak between the outer and inner hulls of the underground tank.

The Village has since eliminated using the failed tanks and is in the process of designing a new fuel system that will be installed this year. The design engineer has recommended not replacing the failed tanks with another underground fuel tank, as it would likely fail prematurely for the same reason the first one failed. Staff has also determined it is in the best interest of the Village to maintain in-house fuel services rather than using gas stations to fuel the municipal fleet. These factors have led staff to conclude the best alternative is to replace the failed underground storage tanks with a 12,000 gallon above ground storage tank.

As part of the fuel tank replacement, the fueling canopy will need to be replaced as well. This is going to match the existing canopy that is currently in place out there. Sample pictures have been provided.

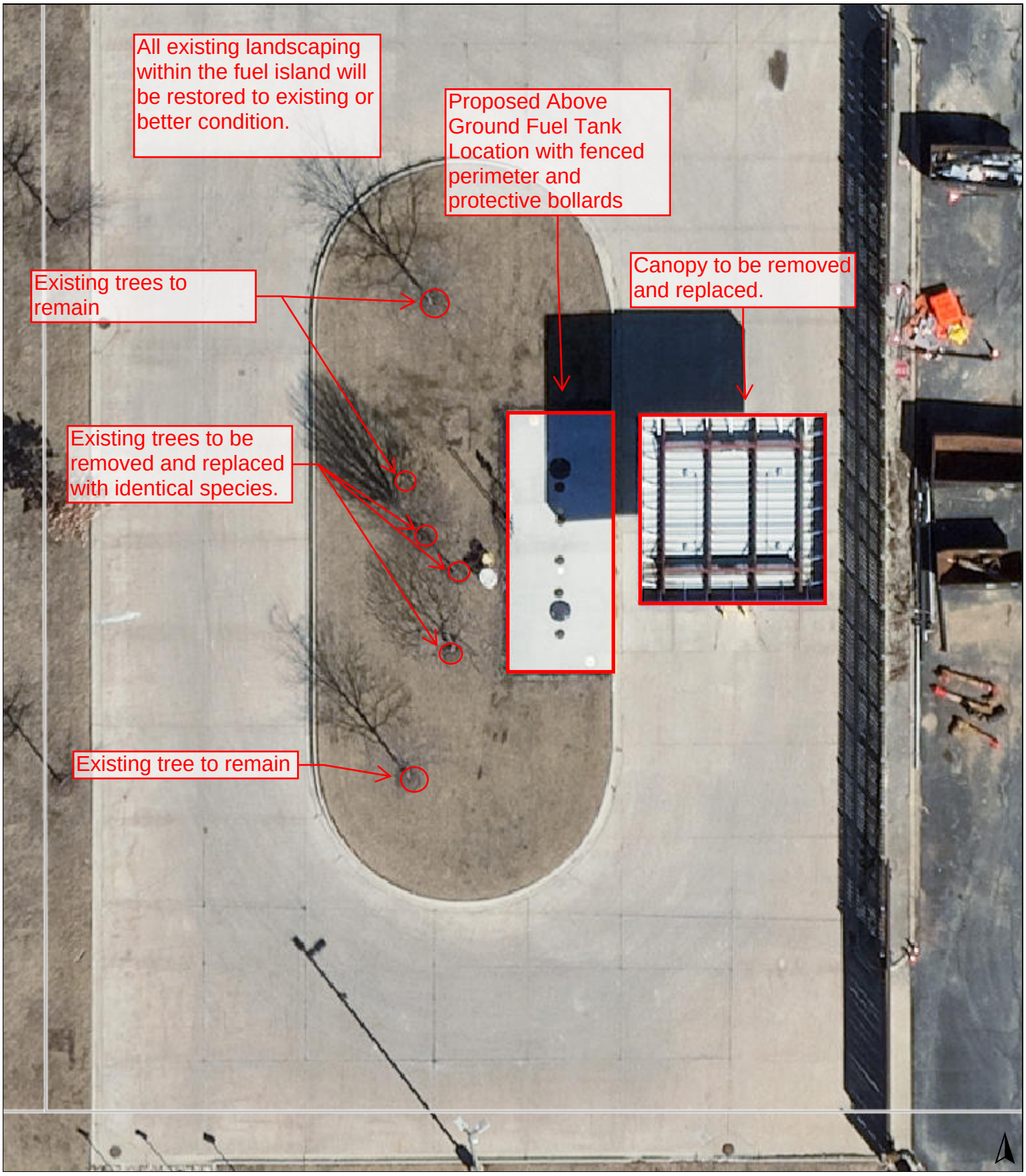
Please do not hesitate to contact me at (847) 499-9053 or email kgoetzelmann@wheelingil.gov if you have any questions regarding this project.

Regards,

Kyle Goetzelmann
Village Engineer

GISConsortium

Fuel Island Site Plan



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Print Date: 3/10/2026

Notes

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MEMORANDUM

DATE: April 22, 2026
FROM: Marcy Knysz, Village Planner
SUBJECT: Docket No. PSPMIN26-0003, Request for Minor Site Plan Approval for Facility Upgrades and Related Site Improvements to the Vehicle Fueling Area for the Village of Wheeling (77 W. Hintz. Rd.).
RECOMMENDED ACTION: **Approve Docket No. PSPMIN26-0003,** granting minor site plan approval for facility upgrades and related site improvements to the vehicle fueling area located at 77 W. Hintz Road, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, and associated sections, in accordance with the Project Description Letter prepared by Kyle Goetzelmann, Village Engineer, dated 3/9/2026; and Site Plan dated 3/10/2026; and subject to the following conditions:

1. Minor Site Plan approval is contingent upon approval of Docket No. PV26-0005, variation to increase the fence height from 6 feet to 8 feet.
2. The fence shall be a black coated chain link fence (no privacy slats).
3. All landscaping removed as part of the proposed improvements, including the three (3) existing trees located within the landscaped island, shall be replaced in accordance with the approved Site Plan. Replacement trees shall be of similar species and shall meet the minimum size and planting standards of the Village Code. Any landscaping disturbed during construction shall be restored prior to final inspection.

EXECUTIVE SUMMARY

GENERAL PROPERTY INFORMATION
Petitioner: Village of Wheeling

Location: 77 W. Hintz Road

Property size: 12 acres

Neighboring Property Land Use(s):
North: Industrial (across W. Hintz Road)
East/West/South: Industrial

Existing Use of Property: Village of Wheeling Public Works Facility

Existing Zoning: I-4, Heavy Industrial

Comprehensive Plan Designation: Industrial

Zoning History:

- Ordinance No. 4345, approved 7/21/2008, granting special use approval for the Public Works facility (docket #2008-18).

SUMMARY OF REQUEST

The Village of Wheeling, property owner, is requesting minor site plan approval for facility upgrades to the existing vehicle fueling area at the Wheeling Public Works Facility that includes an aboveground storage tank and replacement of the existing fueling canopy. In addition, the petitioner is seeking a variation to permit an increase in the maximum permitted fence height from 6 feet to 8 feet (PV26-0005).

Site Plan and Appearance Review

For the purposes of promoting compatible development and ensuring adequate public facilities, Site Plan and Appearance review and approval is required prior to issuance of a building permit or commencing use of land, except for single and two-family residences. Site Plan review only involves the static aspects of a site – layout, parking, landscaping, fencing, etc., and not the land use or operations of a business. Major Site Plan and Appearance review requires a concept review by the Village Board, a recommendation by the Commission, and a final decision by the Village Board. Minor Site Plan and Appearance review does not require a concept review and only requires a final decision by the Plan Commission.

The Village's Public Works Department will be performing facility upgrades of the existing vehicle fueling area located at the southern end of the Public Works Facility. Main elements of the project include replacement of the existing underground storage tank with a 12,000-gallon aboveground storage tank (in the same general location). The existing underground storage tank is located within a landscaped island adjacent to the vehicle fueling area and overhead canopy. The proposed aboveground storage tank will be installed within this landscaped island, resulting in the removal of three (3) existing trees. The proposed plan includes the replacement these trees of similar species, as depicted on the attached Site Plan. Per Docket No. PV26-0008, an 8-foot tall, chain link fence with barbed wire will surround the new tank for security and include protective bollards. A condition has been added requiring the use of a black vinyl coated chain link fencing.

In addition, the existing overhead canopy will be replaced with a new canopy in the same location and same color. No other site changes are proposed.

STAFF REVIEW

Fire Department Review: There are no comments related to the Minor Site Plan and Appearance Review.

Engineering Division Review: There are no comments related to the Minor Site Plan and Appearance Review.

Staff Recommended Actions: Staff recommends approval of the Minor Site Plan, subject to the following conditions:

1. Minor Site Plan approval is contingent upon approval of Docket No. PV26-0005, variation to increase the fence height from 6 feet to 8 feet.

2. The fence shall be a black coated chain link fence (no privacy slats).

3. All landscaping removed as part of the proposed improvements, including the three (3) existing trees located within the landscaped island, shall be replaced in accordance with the approved Site Plan. Replacement trees shall be of similar species and shall meet the minimum size and planting standards of the Village Code. Any landscaping disturbed during construction shall be restored prior to final inspection.

******

If the Plan Commission finds that the petitioner has satisfied the requirements for the granting of minor site plan approval, the appropriate motion would be to:

Approve Docket No. PSPMIN26-0003, granting minor site plan approval for facility upgrades and related site improvements to the vehicle fueling area located at 77 W. Hintz Road, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, and associated sections, in accordance with the Project Description Letter prepared by Kyle Goetzelmann, Village Engineer, dated 3/9/2026; and Site Plan dated 3/10/2026; and subject to the following conditions:

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landscaping disturbed during construction shall be restored prior to final inspection.

ATTACHMENTS:
Attachments to Staff Report (Staff)
Project Description Letter prepared by Kyle Goetzelmann, dated 3/9/2026
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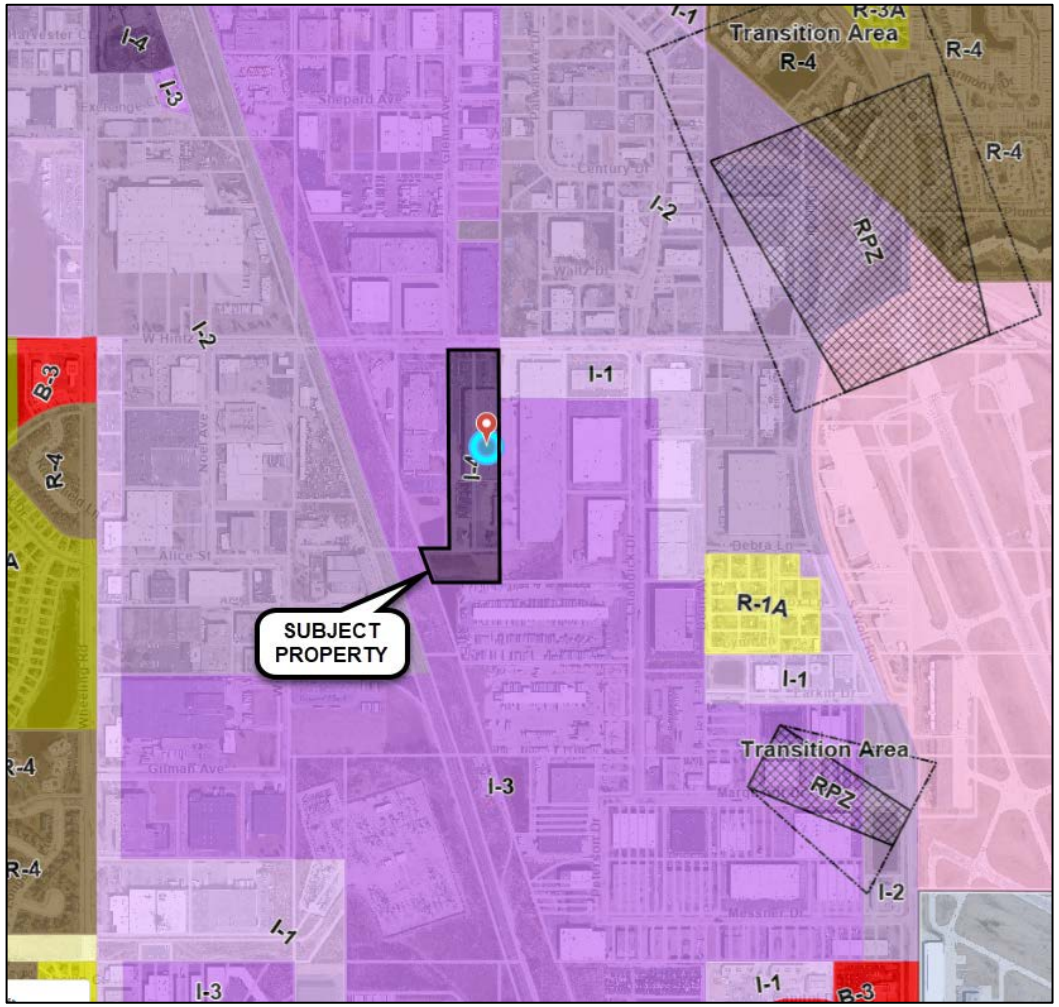
LOCATION MAP



ZONING MAP



View of existing vehicle fueling area facing south.



View of existing vehicle fueling area facing north.

VILLAGE OF
WHEELING
PUBLIC WORKS

March 9, 2026

Marcy Knysz, AICP
Village Planner
Village of Wheeling
2 Community Blvd
Wheeling, IL 60090

Re: Project Narrative – Public Works Above Ground Fuel Tank Installation

In October of 2025, Village of Wheeling staff was informed by the Office of the State Fire Marshall (OSFM) that the Village-owned fuel tanks located at the Public Works facility have failed inspection due to a leak into the interstitial space between the two tank hulls. The contractor identified the main cause of the premature failure was related to the high water table at the facility, which resulted in constant external hydraulic pressure on the external hull of the tank. This led to an interstitial leak between the outer and inner hulls of the underground tank.

The Village has since eliminated using the failed tanks and is in the process of designing a new fuel system that will be installed this year. The design engineer has recommended not replacing the failed tanks with another underground fuel tank, as it would likely fail prematurely for the same reason the first one failed. Staff has also determined it is in the best interest of the Village to maintain in-house fuel services rather than using gas stations to fuel the municipal fleet. These factors have led staff to conclude the best alternative is to replace the failed underground storage tanks with a 12,000 gallon above ground storage tank.

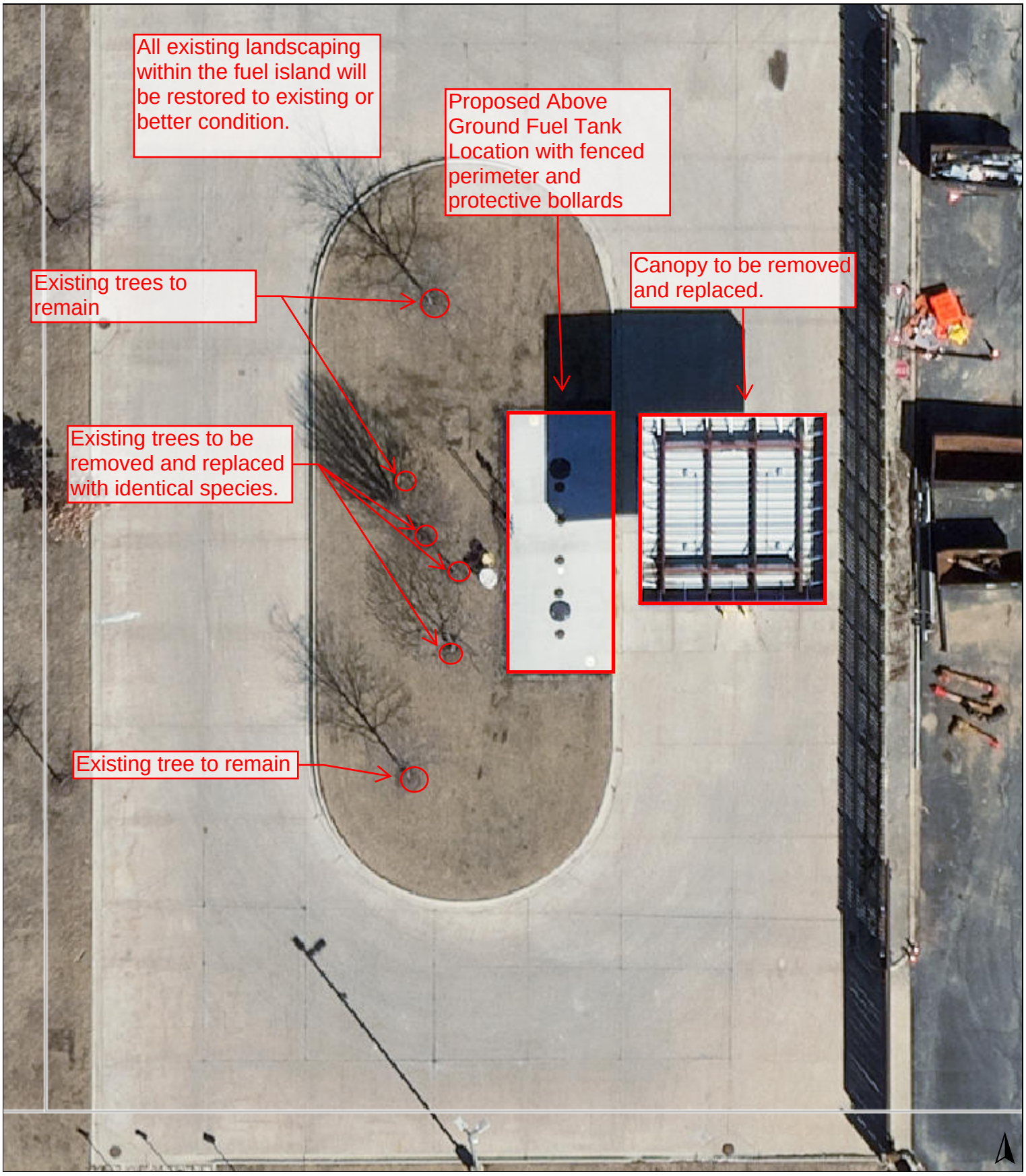
As part of the fuel tank replacement, the fueling canopy will need to be replaced as well. This is going to match the existing canopy that is currently in place out there. Sample pictures have been provided.

Please do not hesitate to contact me at (847) 499-9053 or email kgoetzelmann@wheelingil.gov if you have any questions regarding this project.

Regards,

Kyle Goetzelmann
Village Engineer

GISConsortium | Fuel Island Site Plan



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Print Date: 3/10/2026

Notes

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Meeting Minutes
Wednesday, March 11, 2026
Wheeling Plan Commission Regular Meeting
Board Room, Wheeling Village Hall, 2 Community Boulevard, Wheeling, Illinois
6:30 p.m.

1. CALL TO ORDER

Chairman Johnson called the meeting to order at 6:30 p.m. on March 11, 2026.

2. PLEDGE OF ALLEGIANCE

Everyone stood for the Pledge of Allegiance.

3. ROLL CALL

Present were Commissioners Karl, Riles, Hyken, Myer, Sprague, Smart, and Chairman Johnson. Also present were Village Planner Marcy Knysz and Village Attorney Mallory Milluzzi.

4. CHANGES TO AGENDA – None

5. CITIZENS' CONCERNS AND COMMENTS – None

6. CONSENT ITEMS – None

7. ITEMS FOR REVIEW
7A. Docket No.: PSPMAJ26-0001
Applicant:
Address: 268 7th Street
Request: Request for Major Site Plan Approval to Construct a Multi-Family Residential Building and Associated Site Improvements

Ms. Knysz presented the existing six flats and reported that the proposal was for a new three-story brick-and-frame building with six multi-family residential units. The units would be one- or two-bedroom, and each would have a deck or patio. There was covered parking in the back, per Village Code, and a trash enclosure. The petitioner is proposing a new sidewalk, new light poles, and new building lights. There would be landscaping around the building foundation and trees by the road. Any required variations were taken care of by the previous property owner. The previous property owner obtained site approval, but it expired after a year.

Ms. Knysz read the three conditions:

1. In accordance with Section 17.26 (Impact Fees) of the Village Code, the petitioner shall pay impact fees to the Village of Wheeling prior to the issuance of any building or engineering permits.

2. A cost estimate covering the cost of all landscaping plant material plus the cost of installation shall be submitted and approved by the Community Development Department. The approved amount shall be submitted in the

DRAFT

form of a financial surety to the Community Development Department prior to the issuance of any engineering site permits or building permits.

3. All other agency permits, including but not limited to the Metropolitan Water Reclamation District of Greater Chicago (MWRD) and Illinois Environmental Protection Agency (IEPA), etc., shall be obtained prior to the issuance of any engineering site permits or building permits.

The petitioner, Kryzsztof Gotkiewicz, stepped to the podium. He reported that he had taken over the property and was continuing the project. They learned that the permit had expired and wanted to complete their project as soon as they could. He noted that they were not changing any of the projects previously approved by the old owner.

Commissioner Myer asked whether a composite material would be used for the trash enclosure to improve durability and longevity. Kryzsztof Gotkiewicz confirmed that they would use a composite material.

Commissioners Karl and Sprague had no questions.

Commissioner Hyken asked whether a carport would be installed. Kryzsztof Gotkiewicz reported that they were, and it would hold six cars.

Commissioners Smart and Riles had no questions. Chairman Johnson had no questions.

MOTION: Commissioner Myer moved, seconded by Commissioner Hyken, to approve Docket No. PSPMAJ26-0001, granting major site plan and building appearance approval, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, to permit the construction of a multi-family residential building and associated site improvements, located at 268 7th Street, in accordance with the Carport Detail by Home Improvements Kits.Com; Elevations (Sheets a2.3-a2.4), prepared by aMa-Architecture, last revised 12/16/2024; Engineering Plans (Sheets C.1-C.9), prepared by CIVILAND, PLCC, last revised 11/26/2024; Floor Plans (Sheets a2.5-p1.0), prepared by aMa-Architecture, last revised 12/16/2024; Landscape Plan, Sheet L-1, prepared by CIVILAND, PLCC, last revised 11/26/2024; Lighting Plan (Sheet E1), prepared by Kornacki & Associates dated 5/2/2024, last revised 10/14/2024; Project Description letter prepared by Krzysztof Gotkiewicz, dated 2/21/2026; Rendering; Site Plan (Sheet a.1.1), prepared by aMa-Architecture, last revised 12/16/2024; Stormwater Narrative, prepared by CIVILAND, PLCC, last revised 11/26/2024; Title Sheet (a1.0), prepared by aMa-Architecture, last revised 12.16/2024; and subject to the following conditions:

1. In accordance with Section 17.26 (Impact Fees) of the Village Code, the petitioner shall pay impact fees to the Village of Wheeling prior to the issuance of any building or engineering permits.

2. A cost estimate covering the cost of all landscaping plant material plus the cost of installation shall be submitted and approved by the Community Development Department. The approved amount shall be submitted in the form of a financial surety to the Community Development Department prior to the issuance of any

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engineering site permits or building permits.

3. All other agency permits, including but not limited to the Metropolitan Water Reclamation District of Greater Chicago (MWRD) and Illinois Environmental Protection Agency (IEPA), etc. shall be obtained prior to the issuance of any engineering site permits or building permits.

On the roll call, the vote was as follows:

AYES:	Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS:	None
ABSENT:	None
ABSTAIN:	None

There being seven affirmative votes, the motion was approved.

Ms. Knysz noted that the petitioner would attend the Village Board meeting on April 6th for the final decision.

7B. Docket No.: PSU25-0012
Applicant: Hamro Investment Group, LLC
Address: 604 N. Milwaukee Avenue
Request: Request for Special Use Approval to Permit the Operation of an Entertainment Establishment ("604 The Arena")

See the Findings of Fact for Docket No. PSU25-0012.

MOTION: Commissioner Myer moved, seconded by Commissioner Hyken, to approve Docket No. PSU25-0012, granting Special Use approval to permit the operation of an entertainment establishment to be known as "604 The Arena" by Hamro Investment Group, LLC, (2604 N. Chapel Hill Drive, Arlington Heights, IL 60004) to be located at 604 N. Milwaukee Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10 Use Regulations, and associated sections; and in accordance with the Project Narrative prepared by Manish Chaudhary, dated 1/29/2026; Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026; Floor Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/21/2026; and subject to the following conditions:

1. Special Use approval is contingent upon approval of Docket No. PV26-0003 (variation to permit a reduction in the minimum required parking stall length); Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width); and Docket No. PSPMAJ25-0001 (major site plan and appearance approval for a building addition and related site improvements).

2. No construction permits of any kind shall be issued for any work to be conducted at the subject site before a shared access and parking agreement between the petitioner and the property owner of the adjacent southern Parcel Index Number 03-02-200-048-0000 (commonly addressed as 562 N. Milwaukee Avene) is submitted to the Community Development Department, allowing for the petitioner's access and use of the surface parking facility at 562 N. Milwaukee Avenue. Upon

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acceptance of any shared parking agreement by the Director of Community Development, said agreement shall be executed and recorded with the Cook County Clerk's Office.

3. The special use shall be operated in substantial compliance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Engineering Plans prepared by Morris Engineering, Inc., last revised 1/16/2026; Landscape Plan prepared by G Studio, last revised 1/20/2026; Lighting Plan prepared by PG Enlighten, last revised 1/20/2026; and Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026 except as modified by the Plan Commission or Village Board.

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

7C. Docket No.: PV26-0003
Applicant: Hamro Investment Group, LLC
Address: 604 N. Milwaukee Avenue
Request: Request for a Variation to Permit a Reduction in the Minimum Required Stall Length for 90-Degree Parking from 18.5 Feet to 18.0 Feet

See the Findings of Fact for Docket No. PV26-0003.

MOTION: Commissioner Myer moved, seconded by Commissioner Karl, to approve Docket No. PV26-0003 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections, to permit a reduction in the minimum required stall length for 90-degree parking from 18.5 feet to 18.0 feet for Hamro Investment Group, LLC (2604 N. Chapel Hill Drive, Arlington Heights, IL 60004), located at 604 N. Milwaukee Avenue in accordance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026; Engineering Plans prepared by Morris Engineeirng, Inc., last revised 1/16/2026; and subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width) and Docket No. PSPMAJ25-0001 (major site plan and building appearance approval for the construction of a building addition and associated site improvements).

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles

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NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

7D. Docket No.: PV26-0004
Applicant: Hamro Investment Group, LLC
Address: 604 N. Milwaukee Avenue
Request: Request for a Variation to Permit a Reduction in the Minimum Required Drive Aisle Width for Double-Row Parking from 25 Feet to 24 Feet for Hamro Investment Group, LLC

See the Findings of Fact for Docket No. PV26-0004.

MOTION: Commissioner Myer moved, seconded by Commissioner Riles, to approve Docket No. PV26-0004 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections, to permit a reduction in the minimum required drive aisle width for double-row parking from 25 feet to 24 feet for Hamro Investment Group, LLC (2604 N. Chapel Hill Drive, Arlington Heights, IL 60004), located at 604 N. Milwaukee Avenue in accordance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026; Engineering Plans prepared by Morris Engineeirng, Inc., last revised 1/16/2026; and subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0003 (variation to permit a reduction in the minimum required stall) and Docket No. PSPMAJ25-0001 (major site plan and building appearance approval for the construction of a building addition and associated site improvements).

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

7E. Docket No.: PSPMAJ25-001
Applicant: Hamro Investment Group, LLC
Address: 604 N. Milwaukee Avenue
Request: Request for a Major Site Plan and Building Appearance Approval For the Construction of an Approximately 4,977 SF Building Addition, Building Façade Enhancements, and Associated Site Improvements

Ms. Knysz read the proposed conditions:

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1. Major site plan and building appearance approval is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0003 (variation to permit a reduction in the minimum required stall length); and Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width).

2. The site improvements shall be constructed, maintained, and operated in substantial compliance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Engineering Plans prepared by Morris Engineeirng, Inc., last revised 1/16/2026; Landscape Plan prepared by G Studio, last revised 1/20/2026; Lighting Plan prepared by PG Enlighten, last revised 1/20/2026; and Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026 except as modified by the Plan Commission or Village Board.

3. A building permit must be obtained from the Community Development Department prior to commencing any construction on the building addition or demolition of the site.

4. A completed Application for Wheeling Business License for the new business shall be submitted to the Community Development Department prior to the commencement of operations.

5. The maximum number of outdoor seats shall be limited to 39 seats, unless additional shared parking spaces are secured.

6. No construction permits of any kind shall be issued for any work to be conducted at the subject site before a shared access and parking agreement between the petitioner and the property owner of the adjacent southern Parcel Index Number 03-02-200-048-0000 (commonly addressed as 562 N. Milwaukee Avenue) is submitted to the Community Development Department, allowing for the petitioner's access and use of the surface parking facility at 562 N. Milwaukee Avenue. Upon acceptance of any shared parking agreement by the Director of Community Development, said agreement shall be executed and recorded with the Cook County Clerk's Office.

7. The parking lot shall be resurfaced within one (1) year of issuance of a Temporary Certificate of Occupancy or Final Certificate of Occupancy, whichever is issued first.

8. The outdoor space located west of the trash enclosure shall not be used for outdoor storage of materials, including boxes and/or pallets.

9. A Wheeling Sign Permit shall be required prior to the installation of any exterior signage at the subject property, subject to the requirements of Title 21 (Signs).

10. The proposed fence section addition on the north side of the building shall match the existing fence in material and design and shall have the finished side facing north.

11. All outdoor furniture shall be commercial grade, weather resistant, and suitable

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for year-round outdoor conditions.

12. Plantings shall be maintained year round in the four (4) planters along the building's south elevation.

13. The sidewalk proposed as part of this development shall be constructed of concrete in accordance with the Village's standard construction details.

14. The following items shall be submitted with the building permit application:

    a. The final size and location of the rooftop unit (RTU) enclosures. The enclosures shall match the new Pearl Gray EIFS finish on the building façade.

    b. A detail of the proposed bicycle rack(s), including specifications demonstrating compliance with Village Code requirements.

    c. The Landscape Plan shall include suitable landscape plantings within the entrance island along Milwaukee Avenue, excluding mulch, stone, or similar.

    d. Construction ready irrigation plans.

Chairman Johnson asked about locating the owner of the neighboring parking lot. Manish Chaudhary confirmed that they had and that negotiations were ongoing.

The Commissioners had no further questions.

MOTION: Commissioner Myer moved, seconded by Commissioner Karl, to approve Docket No. PSPMAJ25-0001, granting major site plan and building appearance approval for the construction of an approximately 4,977 sq. ft. building addition, building façade enhancements, and associated site improvements, for Hamro Investment Group, LLC, (2604 N. Chapel Hill Drive, Arlington Heights, IL 60004) for the property located at 604 N. Milwaukee Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, in accordance with the Building Materials Board prepared by Atul Karkhanis Architects, Ltd., last revised 1/21/2026; Canopy System Specification Sheet by Mapes; Elevations prepared by Atul Karkhanis Architects, Ltd., last revised 1/21/2026; Engineering Plans prepared by Morris Engineering, Inc., last revised 1/16/2026; Existing Conditions Photos prepared by the petitioner, dated 1/21/2026; Landscape Plan prepared by G Studio, last revised 1/20/2026; Lighting Plan prepared by PG Enlighten, last revised 1/20/2026; Permeable Paver Specification Sheet by Unilock; Product Specification Sheets for the Wall Base and Sill; Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Rooftop Screen Detail prepared by Atul Karkhanis Architects, Ltd., last revised 1/21/2026; Site Details prepared by Atul Karkhanis Architects, Ltd., last revised 1/21/2026; Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026; and subject to the following conditions:

1. Major site plan and building appearance approval is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0003 (variation to permit a

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reduction in the minimum required stall length); and Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width).

2. The site improvements shall be constructed, maintained, and operated in substantial compliance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Engineering Plans prepared by Morris Engineeirng, Inc., last revised 1/16/2026; Landscape Plan prepared by G Studio, last revised 1/20/2026; Lighting Plan prepared by PG Enlighten, last revised 1/20/2026; and Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026 except as modified by the Plan Commission or Village Board.

3. A building permit must be obtained from the Community Development Department prior to commencing any construction on the building addition or demolition of the site.

4. A completed Application for Wheeling Business License for the new business shall be submitted to the Community Development Department prior to the commencement of operations.

5. The maximum number of outdoor seats shall be limited to 39 seats, unless additional shared parking spaces are secured.

6. No construction permits of any kind shall be issued for any work to be conducted at the subject site before a shared access and parking agreement between the petitioner and the property owner of the adjacent southern Parcel Index Number 03-02-200-048-0000 (commonly addressed as 562 N. Milwaukee Avenue) is submitted to the Community Development Department, allowing for the petitioner's access and use of the surface parking facility at 562 N. Milwaukee Avenue. Upon acceptance of any shared parking agreement by the Director of Community Development, said agreement shall be executed and recorded with the Cook County Clerk's Office.

7. The parking lot shall be resurfaced within one (1) year of issuance of a Temporary Certificate of Occupancy or Final Certificate of Occupancy, whichever is issued first.

8. The outdoor space located west of the trash enclosure shall not be used for outdoor storage of materials, including boxes and/or pallets.

9. A Wheeling Sign Permit shall be required prior to the installation of any exterior signage at the subject property, subject to the requirements of Title 21 (Signs).

10. The proposed fence section addition on the north side of the building shall match the existing fence in material and design and shall have the finished side facing north.

11. All outdoor furniture shall be commercial grade, weather resistant, and suitable for year-round outdoor conditions.

12. Plantings shall be maintained year round in the four (4) planters along the

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building's south elevation.

13. The sidewalk proposed as part of this development shall be constructed of concrete in accordance with the Village's standard construction details.

14. The following items shall be submitted with the building permit application:

    a. The final size and location of the rooftop unit (RTU) enclosures. The enclosures shall match the new Pearl Gray EIFS finish on the building façade.

    b. A detail of the proposed bicycle rack(s), including specifications demonstrating compliance with Village Code requirements.

    c. The Landscape Plan shall include suitable landscape plantings within the entrance island along Milwaukee Avenue, excluding mulch, stone, or similar.

    d. Construction ready irrigation plans.

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

Ms. Knysz reported that the petitioners would attend the April 6 Village Board meeting.

MOTION: Commissioner Myer moved, seconded by Commissioner Sprague, to approve closing Docket Nos. PSU25-0012-001, PV26-0003, and PV26-0004.

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

8. APPROVAL OF MINUTES

MOTION: Commissioner Myer moved, seconded by Commissioner Karl, to approve the Minutes of the Regular Meeting of February 11, 2026.

On the roll call, the vote was as follows:

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AYES: Commissioners Hyken, Johnson, Karl, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: Commissioner Smart

There being six affirmative votes, the motion was approved.

9. OTHER BUSINESS

Ms. Knysz announced that Finn McCool's and the Greek Joynt opened. Sun-Wich will be opening soon. There was also a charcuterie board restaurant opening soon.

10. ADJOURNMENT

MOTION: Commissioner Myer moved, seconded by Commissioner Smart, to adjourn the meeting at 6:55 p.m. The motion was approved by a voice vote.

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FINDINGS OF FACT
AND RECOMMENDATION

To: Village President and Board of Trustees

From: Wheeling Plan Commission/Sign Code Board of Appeal

Date: March 25, 2026

Re: Docket No. PSU25-0004
Request for Special Use Approval to Permit the Operation of a Heavy Motor Vehicle Repair Facility
250 Alderman Ave.

Chairman Johnson called Docket No. PSU25-0004 on March 25, 2026. Present were Commissioners Riles, Hyken, Johnson, Sprague, Myer and Smart. Commissioner Karl was absent with prior notice. Also present were Village Planner Marcy Knysz and Village Attorney Mallory Milluzzi.

Secretary Sprague reported that the property owner was seeking special use approval to permit the operation of a heavy motor vehicle repair facility in Zone I-3, General Industrial, pursuant to Title 18 Zoning of the Wheeling Municipal Code, Chapter 19.10 Use Regulations and Associated Sections. The requirements for a special use were reviewed.

Ms. Knysz reported that the petitioner wanted to keep a portion for Old World Granite and the other portion for the heavy motor vehicle repair facility. The site plan focused on re-establishing parking and specifying the heavy-motor-vehicle stalls. The petitioner would need to stripe the parking lot.

The petitioners, Peter Madej and Andriy Rumak, stepped to the podium and were sworn in.

Mr. Madej explained that their business was evolving based on needs, such as the need to weld special items to accommodate slabs. There was greater demand for small repairs, and the goal was to meet market needs. He noted that they were trying to accommodate the large tax increases and meet demand for their business.

Commissioner Myer asked for clarification on the work the petitioners hoped to undertake. Mr. Madej explained that they wanted to work daily with the trucking industry and with the clients. He noted that they were previously doing small repairs for the clients. They wanted to be able to bring in trucks and make small repairs while loading and unloading them.

Commissioner Myer asked whether they understood what was required regarding environmental and chemical management. Mr. Madej confirmed that they had spoken with Adam from the Building Department, and that they were willing to comply with everything. Commissioner Myer asked if trucks would be stored overnight on the property. Mr. Madej stated that he did not anticipate that any trucks would remain overnight to

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accommodate any emergencies.

Commissioner Myer asked about the purpose of outdoor storage. Mr. Madej explained that it was only used to put the large trucks.

Commissioner Sprague asked if they were required to have an SPCC plan. Mr. Madej stated that he was not sure, but they were working with the city. Commissioner Sprague asked whether it would mostly be semitrucks and whether annual maintenance would be performed. Mr. Madej stated it would be mostly semitrucks, and most of the repairs would be small emergency repairs.

Commissioner Sprague asked how much oil would be kept on site. Mr. Madej explained that they did not need oil since the semitruck drivers usually did that type of maintenance on their own. Commissioner Sprague explained that if a large quantity of oil was kept on site, a plan would be needed for the storm sewer drains in case of a leak. Commissioner Sprague recommended investigating preventive measures in case of a spill.

Commissioner Sprague noted that the chain link fence needed repair. Mr. Rumak stated that only one fence on the north side needed repair because the bushes kept growing into it. Mr. Madej added that they were talking with the Building Department about the issue since the bushes were not on their property. He noted that they were willing to replace any part of the fence if needed.

Commissioner Sprague asked whether there would be any renovations to the exterior of the warehouse, and noted that one corner had some damage and paint. Mr. Madej stated that they would once they had the funds.

Commissioner Hyken had no questions.

Commissioner Smart asked about hours of operation. Mr. Rumak reported that they operated from 8:00 a.m. to 7:00 p.m., but they would accommodate emergencies. Commissioner Smart asked about Old World Granite's hours of operation, and Mr. Madej confirmed they were also 8:00 a.m. to 7:00 p.m.

Commissioner Riles asked how long they had been in business. Mr. Rumak reported that they had been in Wheeling for eight years, and in the Village of Edison for 11 years.

Commissioner Riles asked about the frequency of emergency repairs. Mr. Madej stated that they conducted market research in Illinois and that a large number of needed repairs were required daily. Commissioner Riles asked about their personal experience with the frequency. Mr. Madej stated that there was an issue at least once a week when someone would pick something up, and the truck driver would ask for a nearby repair shop.

Commissioner Riles asked how the old parts would be disposed of and how long the repairs to the trucks were taking. Mr. Madej stated that they had been doing the repairs for the past few years, and they usually scrapped metal. The other items were disposed of in the dumpster, but there were no oils.

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Chairman Johnson noted that there were many car carriers in the parking lot. Mr. Madej stated that the photos were outdated and had been cleaned out. Chairman Johnson asked about the non-permitted structure. Ms. Knysz reported that a covered structure up to the property line needed to come down. Mr. Madej stated that they had put up the cover to protect products from rain. He stated that they were working to make it compliant or remove it and rebuild it.

Ms. Knysz read the proposed conditions:

1. Special Use approval is contingent upon approval of Docket No. PSPMIN26-0002 (request for minor site plan approval).
2. The non-permitted outdoor structure attached to the east side of the building shall be removed, and any repairs shall be completed prior to the issuance of any certificate of occupancy or business license.
3. All parking spaces serving the site shall be striped no later than June 1, 2026. A building permit shall be applied for and obtained from the Village of Wheeling prior to commencement of work.
4. Any service performed on vehicles, including but not limited to inspection, diagnosis, repair, or maintenance activities, shall be conducted entirely within the enclosed building.
5. All parking and vehicle storage shall occur only within the designated parking areas shown on the approved Site Plan. No vehicles or equipment, of any kind, shall be parked or stored within landscape areas, drive aisles, fire lanes or any pavement areas not delineated for vehicle parking.
6. Heavy motor vehicles or equipment awaiting repair or pickup shall only be parked within the six parking stalls designated as “Heavy Motor Vehicle Repair Stalls” on the approved Site Plan. Said spaces shall not be used for heavy motor vehicle storage, short term or long term, including but not limited to stopovers, storage, or for the renting of spaces for daily/weekly/monthly use.
7. Light motor vehicle and heavy motor vehicle dismantling and/or salvage operations shall be prohibited.
8. Long-term storage of heavy motor vehicles or equipment is prohibited.
9. The petitioner shall obtain all required building permits and comply with all applicable building, fire, and health codes prior to issuance of a certificate of occupancy and business license.
10. The petitioner shall submit an Application for Business License to the Community Development Department prior to appearing before the Village Board. A Business License shall be obtained prior to commencing the operation of a heavy motor vehicle repair shop at the subject location.
11. A Wheeling Sign Permit shall be required prior to the installation of any exterior signage at the subject property, subject to the requirements of Title 21 - Signs.
12. Failure to comply with the conditions of approval or Village Code may result in revocation of the Special Use approval, pursuant to Section 19.10.030(i).

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Chairman Johnson asked if it was a separate operation from the Old World Granite. Mr. Madej confirmed that it was.

The Commissioners had no further questions.

MOTION: Commissioner Myer moved, seconded by Commissioner Smart, to approve Docket No. PSU25-0004, granting Special Use approval in order to permit the operation of a heavy motor vehicle repair shop (VA Prime), located at 250 Alderman Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10 Use Regulations, and associated sections, and in accordance with the Detailed Statement of Operations received by the Village on 1/27/2026; and Site Plan prepared by Level Enterprises, LLC, last revised 3/5/2026; and subject to the following conditions:

1. Special Use approval is contingent upon approval of Docket No. PSPMIN26-0002 (request for minor site plan approval).
2. The non-permitted outdoor structure attached to the east side of the building shall be removed, and any repairs shall be completed prior to the issuance of any certificate of occupancy or business license.
3. All parking spaces serving the site shall be striped no later than June 1, 2026. A building permit shall be applied for and obtained from the Village of Wheeling prior to commencement of work.
4. Any service performed on vehicles, including but not limited to inspection, diagnosis, repair, or maintenance activities, shall be conducted entirely within the enclosed building.
5. All parking and vehicle storage shall occur only within the designated parking areas shown on the approved Site Plan. No vehicles or equipment, of any kind, shall be parked or stored within landscape areas, drive aisles, fire lanes or any pavement areas not delineated for vehicle parking.
6. Heavy motor vehicles or equipment awaiting repair or pickup shall only be parked within the six parking stalls designated as “Heavy Motor Vehicle Repair Stalls” on the approved Site Plan. Said spaces shall not be used for heavy motor vehicle storage, short term or long term, including but not limited to stopovers, storage, or for the renting of spaces for daily/weekly/monthly use.
7. Light motor vehicle and heavy motor vehicle dismantling and/or salvage operations shall be prohibited.
8. Long-term storage of heavy motor vehicles or equipment is prohibited.
9. The petitioner shall obtain all required building permits and comply with all applicable building, fire, and health codes prior to issuance of a certificate of occupancy and business license.
10. The petitioner shall submit an Application for Business License to the Community Development Department prior to appearing before the Village Board. A Business License shall be obtained prior to commencing the operation of a heavy motor vehicle repair shop at the subject location.

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11. A Wheeling Sign Permit shall be required prior to the installation of any exterior signage at the subject property, subject to the requirements of Title 21 - Signs.
12. Failure to comply with the conditions of approval or Village Code may result in revocation of the Special Use approval, pursuant to Section 19.10.030(i).

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: Commissioner Karl
ABSTAIN: None

There being six affirmative votes, the motion was approved.

MOTION: Commissioner Myer moved, seconded by Commissioner Smart, to approve closing Docket No. PSU25-0004.

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: Commissioner Karl
ABSTAIN: None

There being six affirmative votes, the motion was approved.

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Meeting Minutes
Wednesday, March 25, 2026
Wheeling Plan Commission Regular Meeting
Board Room, Wheeling Village Hall, 2 Community Boulevard, Wheeling, Illinois
6:30 p.m.

1. CALL TO ORDER

Chairman Johnson called the meeting to order at 6:30 p.m. on March 25, 2026.

2. PLEDGE OF ALLEGIANCE

Everyone stood for the Pledge of Allegiance.

3. ROLL CALL

Present were Commissioners, Riles, Hyken, Myer, Sprague, Smart, and Chairman Johnson. Commissioner Karl was absent with prior notice. Also present was Village Planner Marcy Knysz and Village Attorney Mallory Milluzzi.

4. CHANGES TO AGENDA – None

5. CITIZENS' CONCERNS AND COMMENTS – None

6. CONSENT ITEMS – None

7. ITEMS FOR REVIEW

7A. Docket No.: PSU25-0004
Applicant: Old World Granite
Address: 250 Alderman Avenue
Request: Request for Special Use Approval to Permit the Operation of a Heavy Motor Vehicle Repair Facility

See the Findings of Fact for Docket No. PSU25-0004

MOTION: Commissioner Myer moved, seconded by Commissioner Smart, to approve Docket No. PSU25-0004, granting Special Use approval in order to permit the operation of a heavy motor vehicle repair shop (VA Prime), located at 250 Alderman Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10 Use Regulations, and associated sections, and in accordance with the Detailed Statement of Operations received by the Village on 1/27/2026; and Site Plan prepared by Level Enterprises, LLC, last revised 3/5/2026; and subject to the following conditions:

1. Special Use approval is contingent upon approval of Docket No.

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PSPMIN26-0002 (request for minor site plan approval).

2. The non-permitted outdoor structure attached to the east side of the building shall be removed, and any repairs shall be completed prior to the issuance of any certificate of occupancy or business license.
3. All parking spaces serving the site shall be striped no later than June 1, 2026. A building permit shall be applied for and obtained from the Village of Wheeling prior to commencement of work.
4. Any service performed on vehicles, including but not limited to inspection, diagnosis, repair, or maintenance activities, shall be conducted entirely within the enclosed building.
5. All parking and vehicle storage shall occur only within the designated parking areas shown on the approved Site Plan. No vehicles or equipment, of any kind, shall be parked or stored within landscape areas, drive aisles, fire lanes or any pavement areas not delineated for vehicle parking.
6. Heavy motor vehicles or equipment awaiting repair or pickup shall only be parked within the six parking stalls designated as “Heavy Motor Vehicle Repair Stalls” on the approved Site Plan. Said spaces shall not be used for heavy motor vehicle storage, short term or long term, including but not limited to stopovers, storage, or for the renting of spaces for daily/weekly/monthly use.
7. Light motor vehicle and heavy motor vehicle dismantling and/or salvage operations shall be prohibited.
8. Long-term storage of heavy motor vehicles or equipment is prohibited.
9. The petitioner shall obtain all required building permits and comply with all applicable building, fire, and health codes prior to issuance of a certificate of occupancy and business license.
10. The petitioner shall submit an Application for Business License to the Community Development Department prior to appearing before the Village Board. A Business License shall be obtained prior to commencing the operation of a heavy motor vehicle repair shop at the subject location.
11. A Wheeling Sign Permit shall be required prior to the installation of any exterior signage at the subject property, subject to the requirements of Title 21 - Signs.
12. Failure to comply with the conditions of approval or Village Code may result in revocation of the Special Use approval, pursuant to Section 19.10.030(i).

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Smart, Sprague, Myer, Riles

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NAYS: None
ABSENT: Commissioner Karl
ABSTAIN: None

There being six affirmative votes, the motion was approved.

MOTION: Commissioner Myer moved, seconded by Commissioner Smart, to approve closing Docket No. PSU25-0004.

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: Commissioner Karl
ABSTAIN: None

There being six affirmative votes, the motion was approved.

7B. Docket No.: PSPMIN26-0002
Applicant: Old World Granite
Address: 250 Alderman Avenue
Request: Request for Minor Site Plan Approval for Modifications to the Off-Street Parking Areas Associated with a Proposed Heavy Motor Vehicle Repair Facility

Ms. Knysz read the proposed conditions:

1. Minor Site Plan approval is contingent upon approval of Docket No. PSU25-0004, special use approval to permit the operation of a heavy motor vehicle repair facility.

2. The site improvements shall be constructed, maintained, and operated in substantial compliance with the Site Plan, and Detailed Statement of Operations, except as modified by the Plan Commission or Village Board.

3. All parking spaces serving the site shall be striped no later than June 1, 2026. A building permit shall be applied for and obtained from the Village of Wheeling prior to commencement of work.

4. Heavy motor vehicles or equipment awaiting repair or pickup shall only be parked within the six parking stalls designated as “Heavy Motor Vehicle Repair Stalls” on the approved Site Plan. Said spaces shall not be used for heavy motor vehicle storage, short term or long term, including but not limited to stopovers, storage, or for the renting of spaces for daily/weekly/monthly use.

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5. All parking and vehicle storage shall occur only within the designated parking areas shown on the approved Site Plan. No vehicles or equipment, of any kind, shall be parked or stored within landscape areas, drive aisles, fire lanes or any pavement areas not delineated for vehicle parking.

The Commissioners had no further questions.

MOTION: Commissioner Sprague moved, seconded by Commissioner Myer, to approve Docket No. PSPMIN25-0004, granting minor site plan approval for modifications to parking areas for the property located at 250 Alderman Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code and Chapter 19-12, and associated sections, in accordance with the Detailed Statement of Operations received by the Village on 1/27/2026 and Site Plan prepared by Level Enterprises, LLC, last revised 3/5/2026; and subject to the following conditions:

1. Minor Site Plan approval is contingent upon approval of Docket No. PSU25-0004, special use approval to permit the operation of a heavy motor vehicle repair facility.
2. The site improvements shall be constructed, maintained, and operated in substantial compliance with the Site Plan, and Detailed Statement of Operations, except as modified by the Plan Commission or Village Board.
3. All parking spaces serving the site shall be striped no later than June 1, 2026. A building permit shall be applied for and obtained from the Village of Wheeling prior to commencement of work.
4. Heavy motor vehicles or equipment awaiting repair or pickup shall only be parked within the six parking stalls designated as “Heavy Motor Vehicle Repair Stalls” on the approved Site Plan. Said spaces shall not be used for heavy motor vehicle storage, short term or long term, including but not limited to stopovers, storage, or for the renting of spaces for daily/weekly/monthly use.
5. All parking and vehicle storage shall occur only within the designated parking areas shown on the approved Site Plan. No vehicles or equipment, of any kind, shall be parked or stored within landscape areas, drive aisles, fire lanes or any pavement areas not delineated for vehicle parking.

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: Commissioner Karl
ABSTAIN: None

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There being six affirmative votes, the motion was approved.

Ms. Knysz noted that the Village Board meeting the petitioners attended would depend on when they submitted their business license application.

Peter asked about the tax incentive 6B and if there was anyone they could contact to find out more information regarding their situation. Ms. Knysz recommended contacting the Economic Development Director, Len Becker. Peter asked if there were any plans for the neighboring property on the north side. Ms. Knysz stated it was being demolished, but there were no future plans.

8. OTHER BUSINESS

Commissioner Smart announced that the Wheeling High School mock trial students got in the top 10 in the state competition again. Chairman Johnson reported that the Greek Joynt was having their ribbon cutting in a week and a half.

9. ADJOURNMENT

MOTION: Commissioner Hyken moved, seconded by Commissioner Smart, to adjourn the meeting at 6:37 p.m. The motion was approved by a voice vote.

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FINDINGS OF FACT
AND RECOMMENDATION

To: Village President and Board of Trustees

From: Wheeling Plan Commission/Sign Code Board of Appeal

Date: March 11, 2026

Re: Docket No. PSU25-0012
Request for Special Use Approval to Permit the Operation of an Entertainment Establishment ("604 The Arena") for Hamro Investment Group, LLC
604 N. Milwaukee Avenue

Docket No. PV26-0003
Request for a Variation to Permit a Reduction in the Minimum Required Stall Length for 90-Degree Parking from 18.5 Feet to 18.0 Feet

Docket No. PV26-0004
Request for a Variation to Permit a Reduction in the Minimum Required Drive Aisle Width for Double-Row Parking from 25 Feet to 24 Feet for Hamro Investment Group, LLC

Chairman Johnson called Docket No's. PSU25-0012, PV26-0003 and PV26-0004 on March 11, 2026. Present were Commissioners Riles, Hyken, Karl, Johnson, Sprague, Myer and Smart. Also present were Village Planner Marcy Knysz and Village Attorney Mallory Milluzzi.

Secretary Sprague reported that Hamro Investment Group, LLC, was pursuing special use approval to permit the operation of the entertainment establishment. He read the requirements for special-use approval.

Ms. Knysz explained the special use was for an entertainment establishment that included a restaurant, bar, video gaming terminals, virtual reality stations, cricket and golf simulators, and an arcade. An outdoor dining area was also proposed on the east side.

The building addition required additional parking, which was the source of the variation. The new parking lot would match what already exists in terms of length and drive aisle width. A new trash enclosure would be added on the northwest side of the property. The building proposed bicycle racks. There were some elevations to show the new façade improvements. The main portion would be gray, awnings would be bright blue, and the knee wall would be replaced with new stone. The two statues would be removed. Any signage in the plan was for design purposes, but they would all go through the regular sign permit process. The fence stopped short so that you could see part of the building, but that would be filled in to the corner of the building. The light in the parking lot and on the building would be updated.

The main outstanding item was the parking. The property owner required a parking arrangement or agreement recorded with the neighboring property owner.

Manish Chaudhary stepped to the podium and was sworn in. He reported that he was a partner in the proposed entertainment establishment. The plan was to build an entertainment hub with

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activities for all age groups, including families and teenagers. The facility would include casual dining that could be converted into small event rooms, a new technology arcade for all ages, a golf stimulator, and a cricket stimulator.

Ms. Knysz asked for clarity on banquet use.

Manish Chaudhary confirmed that there would be no rentals.

Commissioner Riles asked how the entire parking lot would be handled, given the existing damage. Manish Chaudhary confirmed that they would improve the condition of the existing parking lot. Commissioner Riles asked how the colors were decided on. Manish Chaudhary reported that it was not a brand color.

Andrew Foster, with Atul Karkhanis Architects, stepped to the podium and was sworn in. He reported that they were looking for a dark color to hide any imperfections. The rest of the building was a medium gray so that it did not show any dirt or age.

Commissioner Riles asked whether it would enhance the overall look of the facility. Andrew Foster confirmed that it would. Commissioner Riles asked if there were specific games for children and adults. He asked whether there was any foresight into how to monitor groups of children riding motorbikes. Manish Chaudhary stated that they could have someone outside during busier times, such as after school, to direct the children.

Commissioner Smart asked whether the only entrance and exit were off Milwaukee. Manish Chaudhary confirmed this was the case. Commissioner Smart asked whether there had been progress on the neighboring parking lot. Manish Chaudhary reported that they were finally able to get in touch with the owner and were having conversations. They were not sure whether they would sell it, but negotiations were still ongoing. Commissioner Smart commented that the lot was essential to the development. She asked how many simulators there were. Manish Chaudhary reported that there were two golf simulators and four cricket simulators. Commissioner Smart asked if the restaurant was open Monday through Thursday, 11 to 10, and Friday through Sunday, 11 to midnight, with the rest of the facility. Manish Chaudhary reported that it was the current plan. Commissioner Smart asked what kind of food would be planned. Manish Chaudhary stated that it was still to be determined, but it would be fusion. Commissioner Smart asked if the second parking lot would have the same variations. Ms. Knysz reported that it was already constructed and legal non-conforming.

Commissioner Hyken raised concerns about the parking lot. He asked whether they had considered installing bollards to protect the entrance. Manish Chaudhary reported that they had not. Commissioner Hyken asked them to look into it. Andrew Foster noted that they included a landscaped island at the front and a sidewalk by the entrance door.

Commissioner Sprague commented that he liked that the gambling machines were far away from the arcade and restaurant. He asked if the fire department was okay with the variations. Ms. Knysz reported that they had reviewed and approved it. Commissioner Sprague asked how many feet were between the two islands. Andrew Foster confirmed it was at least 24 or 25 feet, but they would confirm the exact height. Commissioner Sprague stated that he was just concerned if it was too narrow for emergency vehicles.

Commissioner Karl had no questions.

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Commissioner Myer asked if there would be 35 to 40 employees. Ms. Knysz stated that it was 35 to 40 employees, but they might not all be working at the same time. It was confirmed that the total employee number was, but they were working different shifts, and the majority were part-time employees. Commissioner Myer asked about the use of the banquet hall and if the facility would be used for corporate events. Manish Chaudhary stated that the current plan no longer included a banquet hall, and they would not rent it, but business could use the space. Commissioner Myer asked whether there were any traffic concerns foreseen and whether there was a restriction on making only a right-hand turn on Milwaukee. Ms. Knysz stated that no changes were being made to the traffic pattern.

Ms. Knysz discussed the landscape plan, which would help direct people. It was decided that bollards did not need to be added as a condition.

Commissioner Riles asked whether anything was in place for disabled individuals. Manish Chaudhary confirmed that they had ADA-compliant parking spaces next to the main entrance and that there were accommodations inside the facility.

Ms. Knysz read the proposed conditions for Docket No. PSU25-0012:

1. Special Use approval is contingent upon approval of Docket No. PV26-0003 (variation to permit a reduction in the minimum required parking stall length); Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width); and Docket No. PSPMAJ25-0001 (major site plan and appearance approval for a building addition and related site improvements).
2. No construction permits of any kind shall be issued for any work to be conducted at the subject site before a shared access and parking agreement between the petitioner and the property owner of the adjacent southern Parcel Index Number 03-02-200-048-0000 (commonly addressed as 562 N. Milwaukee Avene) is submitted to the Community Development Department, allowing for the petitioner's access and use of the surface parking facility at 562 N. Milwaukee Avenue. Upon acceptance of any shared parking agreement by the Director of Community Development, said agreement shall be executed and recorded with the Cook County Clerk's Office.
3. The special use shall be operated in substantial compliance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Engineering Plans prepared by Morris Engineeirng, Inc., last revised 1/16/2026; Landscape Plan prepared by G Studio, last revised 1/20/2026; Lighting Plan prepared by PG Enlighten, last revised 1/20/2026; and Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026 except as modified by the Plan Commission or Village Board.

The Commissioners had no further questions.

MOTION: Commissioner Myer moved, seconded by Commissioner Hyken, to approve Docket No. PSU25-0012, granting Special Use approval to permit the operation of an entertainment establishment to be known as "604 The Arena" by Hamro Investment Group, LLC, (2604 N. Chapel Hill Drive, Arlington Heights, IL 60004) to be located at 604 N. Milwaukee Avenue, as required under Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19-10 Use Regulations, and associated sections; and in accordance with the Project Narrative prepared by Manish Chaudhary, dated 1/29/2026; Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026; Floor Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/21/2026; and subject to the following conditions:

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1. Special Use approval is contingent upon approval of Docket No. PV26-0003 (variation to permit a reduction in the minimum required parking stall length); Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width); and Docket No. PSPMAJ25-0001 (major site plan and appearance approval for a building addition and related site improvements).
2. No construction permits of any kind shall be issued for any work to be conducted at the subject site before a shared access and parking agreement between the petitioner and the property owner of the adjacent southern Parcel Index Number 03-02-200-048-0000 (commonly addressed as 562 N. Milwaukee Avene) is submitted to the Community Development Department, allowing for the petitioner's access and use of the surface parking facility at 562 N. Milwaukee Avenue. Upon acceptance of any shared parking agreement by the Director of Community Development, said agreement shall be executed and recorded with the Cook County Clerk's Office.
3. The special use shall be operated in substantial compliance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Engineering Plans prepared by Morris Engineering, Inc., last revised 1/16/2026; Landscape Plan prepared by G Studio, last revised 1/20/2026; Lighting Plan prepared by PG Enlighten, last revised 1/20/2026; and Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026 except as modified by the Plan Commission or Village Board.

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

Secretary Sprague reported that Hamro Investment Group, LLC was pursing request for a variation in the minimum required stall length for 90-degree parking from 18.5 feet to 18 feet, as required in Title 18 Zoning of the Wheeling Municipal Code, Chapter 19.10.

Ms. Knysz read the proposed conditions for Docket No. PV26-0003:

1. Approval of the variance is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width) and Docket No. PSPMAJ25-0001 (major site plan and building appearance approval for the construction of a building addition and associated site improvements)

The Commissioners had no further questions.

MOTION: Commissioner Myer moved, seconded by Commissioner Karl, to approve Docket No. PV26-0003 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections, to permit a reduction in the minimum required stall length for 90-degree parking from 18.5 feet to 18.0 feet for Hamro Investment Group, LLC (2604 N. Chapel Hill Drive, Arlington Heights, IL 60004), located at 604 N. Milwaukee Avenue in accordance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised

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1/27/2026; Engineering Plans prepared by Morris Engineeirng, Inc., last revised 1/16/2026; and subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0004 (variation to permit a reduction in the minimum required drive aisle width) and Docket No. PSPMAJ25-0001 (major site plan and building appearance approval for the construction of a building addition and associated site improvements).

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

Secretary Sprague reported that Hamro Investment Group, LLC was pursuing a request for a variation in the minimum required drive aisle width for double-row parking from 25 feet to 24 feet, as required in Title 18 Zoning of the Wheeling Municipal Code, Chapter 19.11.10. He read the requirements for the zoning variation.

Ms. Knysz read the proposed conditions for Docket No. PV26-0004:

1. Approval of the variance is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0003 (variation to permit a reduction in the minimum required stall) and Docket No. PSPMAJ25-0001 (major site plan and building appearance approval for the construction of a building addition and associated site improvements).

The Commissioners had no further questions.

MOTION: Commissioner Myer moved, seconded by Commissioner Riles, to approve Docket No. PV26-0004 granting a variation from Title 19, Zoning, of the Wheeling Municipal Code, Chapter 19.11.010, Off-Street Parking and Loading, and associated sections, to permit a reduction in the minimum required drive aisle width for double-row parking from 25 feet to 24 feet for Hamro Investment Group, LLC (2604 N. Chapel Hill Drive, Arlington Heights, IL 60004), located at 604 N. Milwaukee Avenue in accordance with the Project Description Letter prepared by Manish Chaudhary, dated 1/29/2026; Site Plan prepared by Atul Karkhanis Architects, Ltd., last revised 1/27/2026; Engineering Plans prepared by Morris Engineeirng, Inc., last revised 1/16/2026; and subject to the following condition:

1. Approval of the variance is contingent upon approval of Docket No. PSU25-0012 (special use approval to permit the operation of an entertainment establishment); Docket No. PV26-0003 (variation to permit a reduction in the minimum required stall) and Docket No. PSPMAJ25-0001 (major site plan and building appearance approval for the construction of a building addition and associated site improvements).

On the roll call, the vote was as follows:

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AYES: Commissioners Hyken, Johnson, Karl, Smart, Sprague, Myer, Riles
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

MOTION: Commissioner Myer moved, seconded by Commissioner Sprague to close Docket No's. PSU25-0012, PV26-0003 and PV26-0004

On the roll call, the vote was as follows:

AYES: Commissioners Hyken, Johnson, Karl, Sprague, Smart, Riles, Myer
NAYS: None
ABSENT: None
ABSTAIN: None

There being seven affirmative votes, the motion was approved.

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