Monday, August 3, 2026
Village Board 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 President and Board of Trustees will be held in the Board Room, Wheeling Village Hall, 2 Community Boulevard, Wheeling, Illinois, immediately following the special meeting of the Liquor Control Commission, and 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. **Approval of Minutes**

   A. Approval of Minutes of the Regular Meeting of July 20, 2026

5. **Changes to the Agenda**

6. **Proclamations**

7. **Appointments and Confirmations**

   A. Reappointment of Commissioners:
   Al Palicki, Board of Fire and Police Commission
   Jon Kolssak, Board of Fire and Police Commission
   Bill Hellyer, Chicago Executive Airport Board of Directors
   Diane Smart, Plan Commission

   B. Reappointment of Commissioner:
   Ray Lang, Chicago Executive Airport Board of Directors

   C. Appointment:
   Bill Wilson, Board of Fire and Police Commission

8. **Administration of Oaths**

9. **Citizen Concerns and Comments**

10. **Staff Reports**

11. **Consent Agenda**

    All items listed on the Consent Agenda are considered to be routine by the Village Board and will be enacted by one motion. There will be no separate discussion of these items unless a Board member or citizen so requests, in which event the item will be removed from the general order of business and considered after all other Agenda items.

    A. Resolution Waiving the Fidelity Bond Requirements for The Catholic Bishop (St. Joseph The Worker Parish)

to Conduct a Raffle Event on September 6, 2026

B. Resolution Approving a One-Year Contract with Schroeder & Schroeder Inc. for the 2026 Sidewalk Replacement Program in the amount of $118,750 in FY 2026

C. Resolution for Improvement under the Illinois Highway Code, Section 26-00102-00-RS (2027 MFT Street Improvement Program)

D. Resolution Approving an Engineering Services Agreement with Civiltech Engineering, Inc. for the Design of the 2027 Street Improvement Program for an amount not to exceed $124,904

E. Resolution Approving Four Utility Easement Agreements between the Village of Wheeling and Waste Management of Illinois Inc.

F. Resolution Adopting the Stormwater Master Plan Update as a Continuation of the Village's Current Plan to Reduce Local Flooding in Wheeling

G. Resolution Approving an Agreement with Featherstone, Inc. for Construction Management Consulting Services Related to the Friendship Park Fountain Project in the amount of $413,193 for FY 2026

H. Resolution Approving a Tenth Amendment to the Service Agreement between the Village of Wheeling and Andy Frain Services, Inc. for Crossing Guard Services

I. Resolution Authorizing the Village President and Clerk to Execute Amendment No. 5 to the Commuter Station Development Agreement with Metra

J. Ordinance Disconnecting Certain Territory Contiguous to the City of Prospect Heights

K. Ordinance Annexing Certain Territory Contiguous to the City of Prospect Heights

12. **Old Business**

13. **New Business**

All Listed Items for Discussion and Possible Action

A. Resolution Consenting to a Cook County Class 6b Real Estate Tax Assessment Classification for the Property Located at 190 Carpenter Avenue, in the Village of Wheeling, Illinois

14. **Official Communications**

15. **Approval of Bills**

A. Approval of Bills for July 15-July 29, 2026

16. **Executive Session**

17. **Action on Executive Session Items**

18. **Adjournment**

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 https://wheelingil.portal.civicclerk.com/.

MEMORANDUM

DATE:	August 3, 2026
FROM:	Jon Sfondilis, Village Manager
SUBJECT:	Resolution Waiving the Fidelity Bond Requirements for The Catholic Bishop (St. Joseph The Worker Parish) to Conduct a Raffle Event on September 6, 2026
DOLLAR AMOUNT:	N/A
BUDGETED:	Yes
BUDGET SOURCE:	N/A
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Residential Life

EXECUTIVE SUMMARY

The Catholic Bishop (St. Joseph The Worker Parish) has applied to conduct a raffle in Wheeling pursuant to the requirements of Chapter 4.66 of the Wheeling Municipal Code and has requested a waiver of the associated fidelity bond requirement.

MEMO

Under Chapter 4.66 of the Wheeling Municipal Code, an organization may apply for a license to conduct a raffle and the associated sale of raffle tickets within Wheeling, subject to certain restrictions, including providing a fidelity bond equal to the total value of the prizes to be awarded in the raffle, unless the Village Board waives that requirement. The Catholic Bishop (St. Joseph The Worker Parish) has applied for a raffle license and requests a waiver of the associated fidelity bond requirement. Ticket sales will be held on the day of the event, September 6, 2026. The Village Board has typically approved such waivers upon request from nonprofit organizations raising funds for charitable causes. Staff recommends approval of the bond waiver.

RESOLUTION NO. 26- _____

RESOLUTION WAIVING THE FIDELITY BOND REQUIREMENTS FOR THE CATHOLIC BISHOP (ST. JOSEPH THE WORKER PARISH) TO CONDUCT A RAFFLE EVENT ON SEPTEMBER 6, 2026

WHEREAS, the Wheeling Municipal Code, Chapter 4.66, "Raffle Licenses," requires that organizations secure a license to conduct a raffle within the Village of Wheeling; and

WHEREAS, The Catholic Bishop (St. Joseph The Worker Parish), a not-for-profit organization, has made a proper application for a license to conduct a raffle on September 6, 2026; and

WHEREAS, The Catholic Bishop has requested a waiver of the fidelity bond requirements outlined in Wheeling Municipal Code, Chapter 4.66.090; and

WHEREAS, the Wheeling Municipal Code, Chapter 4.66.090, gives the Board of Trustees the authority to waive such fidelity bond requirements;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COUNTIES OF COOK AND LAKE, **STATE OF ILLINOIS,** that The Catholic Bishop (St. Joseph The Worker Parish), is hereby granted a waiver of fidelity bond requirements for a raffle event in the Village of Wheeling contingent upon receipt of permission from the property owners to solicit on private property if applicable.

Trustee _____ moved, seconded by Trustee _____

that Resolution No. 26- _____ be adopted.

President Horcher	_____		
Trustee Krueger	_____	Trustee Ruffatto	_____
Trustee Lang	_____	Trustee Vito	_____
Trustee Papantos	_____	Trustee Vogel	_____

APPROVED this 3rd day of August 2026, 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 ILLINOIS

DATE OF APPLICATION: 7.16.24

APPLICATION FOR LICENSE TO CONDUCT RAFFLE

Name of Organization: SAINT JOSEPH THE WORKER CHURCH

Address: 181 W. DUNDEE RD CITY WHEELING

Zip Code: 60090 County: COOK

Mailing Address if Different from Above:

Address: _____ CITY _____

Zip Code: _____

Type of Organization (check one):

Nonprofit [X] Charitable [ ] Educational [ ] Religious [ ]

Veterans [ ] Labor [ ]

Name and Address of Location of Raffle Drawing: SAINT JOSEPH THE WORKER CHURCH
Name

181 W. DUNDEE RD, Wheeling, IL
Address

How long has the organization been in business? 70 YRS

Place and Date of Incorporation: _____ / 5/30/1957
Place Date

Number of Members in Good Standing: 1800

Name of President/Chairperson of the Organization: ELAINE SIMPSON

Contact Number: [redacted] Email Address: [redacted]

Name of Raffle Manager: ELAINE SIMPSON

Contact Number: [redacted] Email Address: [redacted]

(230 ILCS 15/5) (from Ch. 85, par. 2305)

Sec. 5. Manager; bond. All management, operation, and conduct of raffles shall be under the supervision of a single manager designated by the organization. The manager shall give a fidelity bond in an amount determined by the licensing authority in favor of the organization conditioned upon his honesty in the performance of his duties. Terms of the bond shall provide that notice shall be given in writing to the licensing authority not less than 30 days prior to its cancellation. The governing body of a local unit of government may waive this bond requirement by including a waiver provision in the license issued to an organization under this Act, provided that a license containing such waiver provision shall be granted only by the affirmative vote of the requisite number of members of the licensed organization or, if the licensed organization does not have members, of members of the governing board

of the organization, to constitute an affirmative action of the licensed organization. Nothing in this Section shall be deemed to apply to poker runs.
(Source: P.A. 101-109, eff. 7-19-19.)

Names of Member(s) Responsible for Conducting the Operation of the Raffle (attach additional sheets if necessary): _____

_____

Time Period During Which Raffles Chances will be Sold (list specific date(s):
SUNDAY SEPT 6, 2026

Location of Sales: SAINT JOSEPH THE WORKER
Name of Location
181 W. DUNDEE RD, Wheeling, IL
Address

Location for Determining Winners (if different from above):
SAINT JOSEPH THE WORKER
Name of Location
181 W. DUNDEE RD, Wheeling, IL
Address

Date(s) for Determining Winners (daily/weekly/monthly): THAT DAY

Cumulative Retail Value of Prizes: $150.00 THESE ONE BASKETS

Maximum Value of each Prize: $ 225 BASKET

Maximum Price Charged for each Chance Sold: $ _____

Time Period for License (duration): 9/6/2026

RAFFLE LICENSE FEE

Fee for Raffle License is $32.75

Fee Attached: ☒

FIDELITY BOND

Wheeling Municipal Code 4.66.090(b) - the raffle Manager shall give a fidelity bond in the sum of the total value of the prizes to be awarded in the raffle. Such bond must be issued by a responsible insurance company or financial institution duly authorized to do business in Illinois and shall be in effect from the commencement of sales of chance within the village of Wheeling until at least thirty (30) days after the raffle is conducted.

FIDELITY BOND-WAIVER

Wheeling Municipal Code 4.66.150(b) – waiver of bond shall only be granted upon petition to the Board of Trustees. Such petition may be made at any time. The petition must be signed by the raffle manager and by the President or Chairperson of the organization, and must give reasons why the procurement of a bond in the required amount would constitute an undue hardship, and that an alternative method is available to protect the public in lieu of the bond.

ARE YOU REQUESTING A WAIVER OF FIDELITY BOND PURSUANT TO SECTION 4.66.150?

***Yes:** X **No - Fidelity Bond Attached:** _____

*If yes complete the following:

/ I understand that tickets may not be sold prior to approval by the Board of Trustees for waiver of fidelity bond (please initial).

State below the reason(s) why the procurement of a bond in the required amount would constitute an undue hardship. Also, state what alternative method will be available to protect the public in lieu of the bond (attach additional sheets if necessary).

Non Profit - Church

ATTESTATION

The undersigned attests that the organization named below is an organized not-for-profit under the law of the State of Illinois and has been continuously in existence for at least five (5) years preceding the date of this application and that during this entire five (5) year period preceding the date of application, it has maintained a bona fide membership actively engaged in carrying out its objective. The undersigned does hereby state under penalties of perjury that all statements in the foregoing application are true and correct, that the officers, operators, and workers of the raffle(s) are bona fide members of the sponsoring organization, are all of good moral character, and have not been convicted of a felony; that if a license is granted hereunder, the undersigned will be responsible for the conduct of the raffle(s) in accordance with the provisions of the laws of the State of Illinois and this jurisdiction governing the conduct of such raffles.

SAINT JOSEPH THE WORKER

Name of Organization

Elaine Simpson ELAINE SIMPSON

Signature of President/Chairperson Name of President/Chairperson

MEMORANDUM

DATE:	August 3, 2026
FROM:	Daniel Kaup, Deputy Village Manager/Public Works Director
SUBJECT:	Resolution Approving a One-Year Contract with Schroeder & Schroeder Inc. for the 2026 Sidewalk Replacement Program in the amount of $118,750 in FY 2026
DOLLAR AMOUNT:	118,750
BUDGETED:	Yes
BUDGET SOURCE:	Capital Improvement Plan
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Transportation & Infrastructure

EXECUTIVE SUMMARY

The annual sidewalk replacement program consists of the removal and replacement of sections of sidewalk at locations that have been worn or damaged by normal aging, shifting ground, excavations, or other factors. This resolution approves a contract with Schroeder & Schroeder Inc. for the Sidewalk Replacement Program in an amount not to exceed $118,750.

MEMO

Background:

Annually, Public Works inspects all sidewalks within a portion of the Village and contracts for concrete flatwork repair services where deficiencies exist. This includes the removal and replacement of sections of sidewalk at locations that have been worn or damaged by normal aging, shifting ground, excavations, or other factors. This contracted work is in addition to the concrete work performed by Public Works in other areas of the Village during the year.

Discussion:

On July 23, 2026, four bids were received ranging in price from $118,750 to $326,451. Village staff reviewed the bid proposals and determined that Schroeder & Schroeder Inc., out of Skokie, IL, was the lowest-cost, qualified, and responsible bidder meeting all contract requirements, with a bid in the amount of $118,750. Schroeder & Schroeder Inc. has done work in the Village before and is capable of completing this project in a timely, professional manner.

This project will remove and replace approximately 1,900 linear feet of sidewalk in the Village, in accordance with Americans with Disabilities Act (ADA) standards. Residents will be notified if their driveway access is impacted by this work. The contractor anticipates starting this work in early to late summer and will complete the project in approximately three weeks with minimal impact to traffic.

Budget:

Capital Improvement funds in the amount of $120,000.00 have been approved for this work during FY2026.

RESOLUTION NO. 26- _____

RESOLUTION APPROVING A ONE-YEAR CONTRACT WITH SCHROEDER & SCHROEDER INC. FOR THE 2026 SIDEWALK REPLACEMENT PROGRAM IN THE AMOUNT OF $118,750 IN FY 2026

WHEREAS, the Village's 2026 Capital Improvement Plan (CIP) has $120,000 of funding allocated for the proposed FY 2026 Sidewalk Replacement Program; and

WHEREAS, on July 23, 2026, four (4) bids were received ranging in price from $118,750 to $326,451**,** and

WHEREAS, a review of the bids revealed Schroeder & Schroeder Inc. to be the lowest cost, qualified, and responsible bidder meeting all bidding requirements; and

WHEREAS, Schroeder & Schroeder Inc. has performed satisfactory work for the Village before, and Staff believes it is in the best interest of the Village to award a contract for the FY 2026 Sidewalk Replacement Program to Schroeder & Schroeder Inc.**;**

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COUNTIES OF COOK AND LAKE, STATE OF ILLINOIS, that the $118,750 not-to-exceed contract for the 2026 Sidewalk Replacement Program be approved and awarded to Schroeder & Schroeder Inc. in accordance with the bid proposal dated July 23, 2026.

Trustee _____ moved, second by Trustee _____,

That Resolution No. 26- _____ be adopted.

President Horcher _____

Trustee Krueger _____ Trustee Ruffatto _____

Trustee Lang _____ Trustee Vito _____

Trustee Papantos _____ Trustee Vogel _____

ADOPTED this 3rd day of August, 2026, 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

2026 SIDEWALK REPLACEMENT PROJECT

CONTRACT DOCUMENT

This agreement is made this 3rd day of August , 2026 between and shall be binding upon the Village of Wheeling, an Illinois municipal Corporation hereinafter referred to as (the "Village") and (Schroeder & Schroeder Inc.) hereinafter to as (the "Contractor") and its successors.

Witnessed, that in consideration of the mutual promises of the parties delineated in the contract documents, the Contractor agrees to perform the services and the Village agrees to pay for the following services as set forth in the contract documents:

removal and replacement of concrete sidewalk.

1. This contract shall embrace and include all of the applicable contract documents listed below as if attached hereto or repeated herein:
    a. Specification and Contract Document for 2026 SIDEWALK REPLACEMENT PROJECT , consisting of the following:
        i. Cover Sheet
        ii. Table of Contents
        iii. Invitation to Bid on Contract Document Legal Notice
        iv. Standard General Conditions of the Construction Contract, EJCDC C-700 2007 Edition (as modified)
        v. Specific Terms, Conditions and Instructions and Blue Prints
        vi. Bid Proposal Form
        vii. Plans and Specifications
        viii. All issued Addenda
        ix. Certificate of Eligibility to Enter into Public Contracts
        x. Required Performance and Payment Bonds
        xi. Required Insurance Certificates
        xii. All other Modifications issued after the execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the work issued by the Engineer.
    b. The Contractor's Bid Proposal Dated 7/23/26 .
    c. Required Performance and Payment Bonds and Certificate of Insurance
2. The Village agrees to pay, and the Contractor agrees to accept as full payment for the items, and installation of the same, which are the subject matter of this contract the total sum of $118,750.00 paid in accordance with the provisions of the Local Government Prompt Payment Act.

3. The Contractor represents and warrants that it will comply will all applicable Federal, State and local laws concerning prevailing wage rates and all Federal, State and local laws concerning equal employment opportunities.

4. The Contractor shall commence work under this Contract upon written Notice to Proceed from the Village and shall complete work on this project within 90 calendar days from the date of the Notice to Proceed. Time is of the essence of this Contract and Contractor agrees to achieve completion within the contract time by all proper and appropriate means including working overtime without additional compensation.

5. Bonds required to guarantee performance and payment for labor and material for this work shall be in a form acceptable to the Village and shall provide that they shall not terminate on completion of the work, but shall be reduced to ten percent (10%) of the contract sum upon the date of final payment by the Village for a period of one (1) year to cover a warranty and maintenance period which Contractor agrees shall apply to all material and workmanship for one (1) year from the date of issuance of the final payment by the Village.

6. Pursuant to the provisions of Section 5 of the Mechanics' Lien Act of Illinois, prior to making any payment on this contract the Village demands that the Contractor furnish a written statement of the names of all parties furnishing labor and/or materials under this Contract and the amounts due or to become due on each. This statement must be made under oath or be verified by affidavit. Final payment shall not be issued by the Village nor shall any retained percentage become due until releases and waivers of lien have been supplied as the Village designates.

7. In executing this Contract, Contractor agrees that it has examined the site of the work and the conditions existing therein, has examined the Contract Documents and taken and compared field measurements and conditions with those Documents.

8. This Contract represents the entire Agreement between the parties and may not be modified without the written approval of both parties.

9. Where the terms of this Contract conflict with the provisions of the Contract Documents, the Contract Documents shall be binding.

IN WITNESS WHEREOF, the Village of Wheeling, Illinois by, Village President, and the Contractor have hereunto set their hands this 3rd day of August, 2026.

If an individual or partnership, all individual names of each partner shall be signed or if a corporation, an officer duly authorized shall sign here:

Accepted this 3rd day of August, 2026.

Individual or Partnership _____ Corporation X

_____ President

By Position/Title

_____ Secretary

By Position/Title

Schroeder & Schroeder Inc.

Print Company Name

THE VILLAGE OF WHEELING, ILLINOIS

Accepted this 3rd day of August, 2026.

_____
Patrick Horcher
Village President

Attest:

_____
Kathryn M. Brady
Village Clerk

2026 Sidewalk Replacement Program (#10274201)
Owner: Village of Wheeling
Solicitor: Wheeling IL, Village of
07/23/2026 11:00 AM CDT

						Engineer Estimate		Schroeder & Schroeder Inc.	
Section Title	Line Item	Item Code	Item Description	UofM	Quantity	Unit Price	Extension	Unit Price	Extension
Base Bid							$0.00		$118,750.00
	1	1	P.C.C. SIDEWALK REMOVAL AND REPLACEMENT	SF	7625			$11.00	$83,875.00
	2	2	P.C.C. SIDEWALK REMOVAL AND REPLACEMENT ON COUNTY ROAD	SF	1875			$13.00	$24,375.00
	3	3	DETECTABLE WARNING	EA	7			$325.00	$2,275.00
	4	4	AGGREGATE BASE COURSE, TYPE B	TON	60			$22.50	$1,350.00
	5	5	HMA DRIVEWAY REMOVAL AND REPLACEMENT	SY	8			$150.00	$1,200.00
	6	6	TRAFFIC CONTROL & PROTECTION	LS	1			$5,325.00	$5,325.00
	7	7	CCDOTH INDIVIDUAL UTLITY PERMIT BOND	LS	1			$350.00	$350.00
Base Bid Total:							$0.00		$118,750.00

Globe Construction		D'Land Construction, LLC		Alliance Contractors Inc.	
Unit Price	Extension	Unit Price	Extension	Unit Price	Extension
	$192,027.50		$205,350.00		$326,451.00
$17.50	$133,437.50	$18.00	$137,250.00	$32.70	$249,337.50
$22.00	$41,250.00	$20.00	$37,500.00	$32.70	$61,312.50
$450.00	$3,150.00	$500.00	$3,500.00	$500.00	$3,500.00
$25.00	$1,500.00	$30.00	$1,800.00	$20.00	$1,200.00
$130.00	$1,040.00	$600.00	$4,800.00	$550.00	$4,400.00
$7,900.00	$7,900.00	$15,000.00	$15,000.00	$6,700.00	$6,700.00
$3,750.00	$3,750.00	$5,500.00	$5,500.00	$1.00	$1.00
	$192,027.50		$205,350.00		$326,451.00

MEMORANDUM

DATE:	August 3, 2026
FROM:	Daniel Kaup, Deputy Village Manager/Public Works Director
SUBJECT:	Resolution for Improvement under the Illinois Highway Code, Section 26-00102-00-RS (2027 MFT Street Improvement Program)
DOLLAR AMOUNT:	124,904
BUDGETED:	Yes
BUDGET SOURCE:	Motor Fuel Tax (MFT) Funds
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Transportation & Infrastructure

EXECUTIVE SUMMARY

The attached Illinois Department of Transportation (IDOT) resolution approves the appropriation of Motor Fuel Tax (MFT) Funds from the Village's FY 2026 Budget in the amount of $124,904 for the design of the 2027 Street Improvement Program. A resolution awarding the construction engineering contract for this program immediately follows this item on the August 3, 2026, agenda.

MEMO

Discussion:

Each year, the Village resurfaces or reconstructs a portion of the roadway network to ensure the condition of Village roads is maintained properly. The proposed 2027 MFT Street Improvement Program will focus on cul-de-sacs in Arlington Club and Equestrian Drive. The project includes curb and gutter repair and replacement, asphalt pavement grinding and overlay, potential stone sub-base repair or replacement on certain streets, sidewalk repair, replacement and adjustment of drainage structures, parkway restoration, and other miscellaneous work necessary to complete these improvements. 14,117 feet of roadway will be resurfaced as the result of this project.

The approval of the attached Illinois Department of Transportation (IDOT) Bureau of Local Roads (BLR) 09110 form "Resolution for Improvement by Municipality under the Illinois Highway Code" does not authorize the Village to use existing Motor Fuel Tax (MFT) at this time, but is required for the appropriation of MFT funds from the Village's budget for the design of street improvement projects during FY 2026 for a total of $124,904. Once this resolution is passed by the Village, IDOT will review the program, and after IDOT has approved this resolution and the engineering services agreement with contractor Civiltech, the Village will be authorized to use these funds to pay for the design of the 2027 Road Program. The attached IDOT resolution approves the use of MFT Funds for the design of the 2027 Road Program from the Village's FY 2026 Budget.

Budget:

Motor Fuel Tax (MFT) Funds in the amount of $120,000 have been budgeted for this project in FY 2026.

Illinois Department of Transportation

Resolution for Improvement Under the Illinois Highway Code

Is this project a bondable capital improvement?
☒ Yes ☐ No

Resolution Type	Resolution Number	Section Number
Original	26-	26-00102-00-RS

BE IT RESOLVED, by the President and Board of Trustees (Governing Body Type) of the Village (Local Public Agency Type) of Wheeling (Name of Local Public Agency) Illinois that the following described street(s)/road(s)/structure be improved under the Illinois Highway Code. Work shall be done by Contract (Contract or Day Labor).

For Roadway/Street Improvements:

Name of Street(s)/Road(s)	Length (miles)	Route	From	To
Various	2.67			

For Structures:

Name of Street(s)/Road(s)	Existing Structure No.	Route	Location	Feature Crossed

BE IT FURTHER RESOLVED,

1. That the proposed improvement shall consist of

Phase II professional engineering services related to the design of pavement resurfacing on various streets throughout the Village of Wheeling. $124,904.00 of Motor Fuel Tax Funds.

2. That there is hereby appropriated the sum of one hundred twenty four thousand, nine hundred four and 00/100 Dollars ($124,904.00) for the improvement of said section from the Local Public Agency's allotment of Motor Fuel Tax funds.

BE IT FURTHER RESOLVED, that the Clerk is hereby directed to transmit four (4) certified originals of this resolution to the district office of the Department of Transportation.

I, Kathryn M. Brady (Name of Clerk) Village (Local Public Agency Type) Clerk in and for said Village (Local Public Agency Type) of Wheeling (Name of Local Public Agency) in the State aforesaid, and keeper of the records and files thereof, as provided by statute, do hereby certify the foregoing to be a true, perfect and complete original of a resolution adopted by President and Board of Trustees (Governing Body Type) of Wheeling (Name of Local Public Agency) at a meeting held on August 03, 2026 (Date).

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 3rd (Day) day of August, 2026 (Month, Year).

(SEAL, if required by the LPA)

Clerk Signature & Date

Approved

Regional Engineer Signature & Date
Department of Transportation

MEMORANDUM

DATE:	August 3, 2026
FROM:	Daniel Kaup, Deputy Village Manager/Public Works Director
SUBJECT:	Resolution Approving an Engineering Services Agreement with Civiltech Engineering, Inc. for the Design of the 2027 Street Improvement Program for an amount not to exceed $124,904
DOLLAR AMOUNT:	124,904
BUDGETED:	Yes
BUDGET SOURCE:	Motor Fuel Tax (MFT) Funds
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Transportation & Infrastructure

EXECUTIVE SUMMARY

Public Works staff recommends approval of the attached $124,904 agreement with Civiltech Engineering, Inc. to provide design engineering for the 2027 Motor Fuel Tax (MFT) Street Improvement Program. Approximately 14,117 feet of roadway will be resurfaced as a result of this project.

MEMO

Discussion:

The proposed 2027 MFT Street Improvement Program will focus on street improvements in the cul-de-sacs in Arlington Club and Equestrian Drive. The project includes curb and gutter repair and replacement, asphalt pavement grinding and overlay, potential stone sub-base repair or replacement on certain streets, sidewalk improvements associated with ADA requirements, adjustment of drainage structures, parkway restoration, and other miscellaneous work necessary to complete these improvements. Nearly 14,117 feet of roadway will be resurfaced as the result of this project.

In July 2025, a Request for Statement of Qualifications (RSQ) was emailed to various firms for professional engineering services to assist the Village with its capital improvement projects. Civiltech Engineering, Inc. was one of the selected firms for the transportation category.

Public Works has worked with Civiltech Engineering, Inc., on previous projects, including most recently, the 2026 Street Improvement Program. Public Works has been satisfied with Civiltech's work product and cost of services and is confident in their ability to perform the engineering services required for the 2027 Street Improvement Program.

Budget:

MFT funds in the amount of $120,000 are budgeted in FY2026 for the proposed engineering services.

RESOLUTION NO. 26 - _____

RESOLUTION APPROVING AN ENGINEERING SERVICES AGREEMENT WITH CIVILTECH ENGINEERING, INC. FOR THE DESIGN OF THE 2027 STREET IMPROVEMENT PROGRAM IN AN AMOUNT NOT TO EXCEED $124,904

WHEREAS, the cul-de-sacs in Arlington Club and Equestrian Drive need repair and have been selected for resurfacing through the 2027 Street Improvement Program; and

WHEREAS, in July 2025, Public Works staff emailed a Request for Statement of Qualifications (RSQ) to various firms soliciting professional engineering services to assist the Village with its capital improvement projects; and

WHEREAS, Public Works staff selected Civiltech Engineering, Inc. as one of the qualified firms in the transportation category; and

WHEREAS, Civiltech Engineering, Inc. has worked with the Village on previous projects, including the 2022 through 2026 Street Improvement Programs; and

WHEREAS, Public Works staff has been satisfied with Civiltech's past work product and cost of services, and is confident in their ability to perform the engineering services required for the 2027 Street Improvement Program; and

WHEREAS, motor fuel tax (MFT) funds are budgeted in FY 2026 for such engineering services; and

WHEREAS, it is determined to be in the best interest of the Village of Wheeling to approve the attached engineering agreement from Civiltech Engineering, Inc. for professional engineering design services for the 2027 Street Improvement Program;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COUNTIES OF COOK AND LAKE, STATE OF ILLINOIS, that the Village President is hereby authorized to accept and approve the engineering agreement from Civiltech Engineering, Inc., attached hereto, in an amount not to exceed $124,904.

Trustee _____ moved, second by Trustee _____,

that Resolution No. 26- _____ be adopted.

President Horcher	_____		
Trustee Krueger	_____	Trustee Ruffatto	_____
Trustee Lang	_____	Trustee Vito	_____
Trustee Papantos	_____	Trustee Vogel	_____

ADOPTED this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

ATTEST: _____
Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

Illinois Department of Transportation

Local Public Agency
Engineering Services Agreement

Using Federal Funds? ☐ Yes ☒ No

Using State Funds (Non-MFT/TBP)? ☐ Yes ☒ No

Agreement For: MFT/TBP - PE

Agreement Type: Original

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
Wheeling	Cook	26-00102-00-RS	

Project Number	Contact Name	Phone Number	Email
N/A	Kyle Goetzelmann	(847) 499-9053	kgoetzelmann@wheelingil.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Various			N/A

Location Termini: Various

Add Location | Remove Location

Project Description: Phase II professional engineering services related to the design of pavement resurfacing on various streets throughout the Village of Wheeling

Engineering Funding ☒ MFT/TBP ☐ State ☐ Other

Anticipated Construction Funding ☐ Federal ☒ MFT/TBP ☐ State ☐ Other

AGREEMENT FOR

☐ Phase I - Preliminary Engineering ☒ Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email
Civiltech Engineering, Inc.	Nathan Murphy	(630) 735-3377	nmurphy@civiltechinc.com

Address	City	State	Zip Code
2 Pierce Place, Suite 1400	Itasca	IL	60143

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Project funding allotted to the LPA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT," will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Since the services contemplated under the AGREEMENT are professional in nature, it is understood that the ENGINEER, acting as an individual, partnership, firm or legal entity, qualifies for professional status and will be governed by professional ethics in its relationship to the LPA and the DEPARTMENT. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into an AGREEMENT on the basis of its qualifications and experience and determining its compensation by mutually satisfactory negotiations.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director, Office of Highways Project Implementation, Regional Engineer, Department of Transportation

AGREEMENT EXHIBITS

The following EXHIBITS are attached hereto and made a part of hereof this AGREEMENT:

- ☒ EXHIBIT 1: Scope of Services
- ☒ EXHIBIT 2: Project Schedule
- ☒ EXHIBIT 3: Qualification Based Selection (QBS) Checklist
- ☒ EXHIBIT 4: Cost Estimate of Consultant Services (BLR 05513 or BLR 05514)
- ☐ EXHIBIT __ : Direct Costs Summary Sheet
- ☒ Exhibit 5: Work Hour Estimate
- ☒ Exhibit 6: Sub-consultant Proposal
- ☐ _____

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT 1 for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA, The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of US Department of Transportation (US DOT) assisted contract. Failure by the Engineer to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LPA deems appropriate.
8. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
9. For Preliminary Engineering Contracts:
   (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit 1 (Scope of Services).
   (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affixed the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the DEPARTMENT.
   (c) That the ENGINEER is qualified technically and is thoroughly conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated in Exhibit 1 (Scope of Services).
10. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT COST tab in BLR 05513 or BLR 05514).

II. THE LPA AGREES,

1. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the Professional Services Selection Act (50 ILCS 510) (Exhibit 3).
2. To furnish the ENGINEER all presently available survey data, plans, specifications, and project information.
3. To pay the ENGINEER:
   (a) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
   (b) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and DEPARTMENT a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER

shall be due and payable to the ENGINEER.

(c) For Non-Federal County Projects - (605 ILCS 5/5-409)

(1) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER. Such payments to be equal to the value of the partially completed work in all previous partial payments made to the ENGINEER.

(2) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in the AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. To pay the ENGINEER as compensation for all services rendered in accordance with the AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

Method of Compensation:

☐ Percent

☐ Lump Sum

☐ Specific Rate

☒ Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:
DL is the total Direct Labor,
DC is the total Direct Cost,
OH is the firm's overhead rate applied to their DL and
FF is the Fixed Fee.

Where FF = (0.33 + R) DL + %SubDL, where R is the advertised Complexity Factor and %SubDL is 10% profit allowed on the direct labor of the subconsultants.

The Fixed Fee cannot exceed 15% of the DL + OH.

5. The recipient shall not discriminate on the basis of race, color, national original or sex in the award and performance of any US DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this AGREEMENT. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C 3801 et seq.).

III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.

2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

   The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.

3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

4. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for expenses incurred as a result of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.

5. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.

6. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

7. The ENGINEER and LPA certify that their respective firm or agency:

   (a) has not employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
   (b) has not agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
   (c) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
   (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
   (e) has not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
   (f) are not presently indicated for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph and
   (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

   Where the ENGINEER or LPA is unable to certify to any of the above statements in this clarification, an explanation shall be attached to this AGREEMENT.

8. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of the AGREEMENT or adjustment of the fee for the remaining services may be requested by either party if the overall delay from the unforeseen causes prevents completion of the work within six months after the specified completion date. Examples of unforeseen causes included but are not limited to: acts of God or a public enemy; acts of the LPA, DEPARTMENT, or other approving party not resulting from the ENGINEER's unacceptable services; fire; strikes; and floods.

   If delays occur due to any cause preventing compliance with the PROJECT SCHEDULE, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.

9. By execution of this AGREEMENT the LPA and ENGINEER certify compliance with the Drug Free Workplace (30 ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the DEPARTMENT unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to suspension of contract on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

   For the purpose of this certification, "grantee" or "Contractor" means a corporation, partnership or an entity with twenty-five (25) or more employees at the time of issuing the grant or a department, division or other unit thereof, directly responsible for the specific performance under contract or grant of $5,000 or more from the DEPARTMENT, as defined the Act.

   The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

   (a) Publishing a statement:
      (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
      (2) Specifying actions that will be taken against employees for violations of such prohibition.
      (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
         (a) abide by the terms of the statement; and
         (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than (5) days after such conviction.
   (b) Establishing a drug free awareness program to inform employees about:
      (1) The dangers of drug abuse in the workplace;

(2) The grantee's or contractor's policy to maintain a drug free workplace;
(3) Any available drug counseling, rehabilitation and employee assistance program; and
(4) The penalties that may be imposed upon an employee for drug violations.

(c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.

(d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.

(e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act, the ENGINEER and LPA agree to meet the PROJECT SCHEDULE outlined in EXHIBIT 2. Time is of the essence on this project and the ENGINEER's ability to meet the PROJECT SCHEDULE will be a factor in the LPA selecting the ENGINEER for future projects. The ENGINEER will submit progress reports with each invoice showing work that was completed during the last reporting period and work they expect to accomplish during the following period.

10. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).

11. For Preliminary Engineering Contracts:

(a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.

(b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount
Civiltech Engineering, Inc.	36-3606666	$109,139.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Rubino Enginering	80-0450719	$15,765.00
	Subconsultant Total	$15,765.00
	Prime Consultant Total	$109,139.00
	Total for all work	$124,904.00

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The Village (Local Public Agency Type) of Wheeling (Local Public Agency)

By (Signature & Date)

By (Signature & Date)

Local Public Agency: Wheeling

Local Public Agency Type: Village Clerk

Title

(SEAL)

Executed by the ENGINEER:

Attest:

Prime Consultant (Firm) Name: Civiltech Engineering, Inc.

By (Signature & Date) 07-28-2026

Title: Vice President

By (Signature & Date) 07-28-2026

Title: President

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

For information about IDOTs collection and use of confidential information review the department's Identity Protection Policy.

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Wheeling	Civiltech Engineering, Inc.	Cook	26-00102-00-RS

EXHIBIT 1
SCOPE OF SERVICES

To perform or be responsible for the performance of the engineering services for the LPA, in connection with the PROJECT herein before described and enumerated below

See attached.

I. PROJECT UNDERSTANDING AND APPROACH

This project consists of roadway improvements for the Village's 2027 MFT Street Improvements program. The roadways anticipated to be a part of the 2027 program include:

Area No. 1

- Equestrian Drive (2880 feet)

Area No. 2

- Hadley Court (730 feet)
- Brittany Court (245 feet)
- Camden Court (827 feet)
- Canbury Court (586 feet)
- Shore Court (491 feet)
- Nottingham Court (235 feet)
- Oakmeadow Court (786 feet)
- Orrington Court (317 feet)
- Aldgate Court (548 feet)
- Cheswick Court (316 feet)
- Fairfield Court (587 feet)
- Ashton Court (244 feet)
- Glengary Lane (725 feet)
- Glengary Court (470 feet)
- Tulip Court (608 feet)
- Braeborn Court (413 feet)
- Seville Court (508 feet)
- Warwick Court (375 feet)
- Acorn Court (466 feet)
- Queens Court (203 feet)
- Broadway Court (278 feet)
- Sheridan Court (463 feet)
- Stratford Court (249 feet)
- Pennsbury Court (582 feet)
- Newburn Court (525 feet)

Area No. 3

- **Shadowbend Drive** – Pavement investigation only from the north intersection with N Milwaukee Ave along the corridor to where is intersects to the south with N Milwaukee Avenue.

During the preliminary engineering phase, Civiltech will develop recommendations for the improvements on each street based on the Village's goals and objectives, pavement cores obtained by Rubino Engineering, field inspections, IDOT MFT design requirements, and previous studies. A preliminary cost estimate will be developed to compare to the available funding. For purposes of this proposal, we have assumed that the roadways will be resurfaced with no elevation changes to the curb and gutter, therefore no re-profiling of the roadway will be required.

The streets will not be surveyed. The plans will be developed based on existing aerial imagery and a field walk by our design engineer and field staff. Similar to the 2026 MFT project, we anticipate that the Village will field mark locations of curb and gutter replacement, which will be measured by Civiltech's field staff. A review of the condition of existing utility structures will also be made by Village staff and reviewed by Civiltech's field staff.

There are a significant number of intersection corners within the project limits that have, or will have, sidewalk curb ramps. Similar to the 2025 and 2026 projects, we have assumed that the plans will show the general layout of the ramps and will include the appropriate IDOT Highway Standards. The Resident Engineer and Contractor will then need to work cooperatively to construct the ramps to be compliant. We have included scope and work hours to survey and design 6 locations for inclusion in the plans if complicated grading issues warrant the design being included in the plans.

All of the proposed roadways are under the Village's jurisdiction. We have assumed that the proposed improvements will end outside of IDOT's right-of-way on Equestrian Drive. No outside agency permitting will be required.

Testing for disposal of surplus material at a Clean Construction and Demolition Debris facility will be performed by Rubino Engineering as a subconsultant to Civiltech.

II. SCOPE OF SERVICES

1. Data Collection and Early Coordination

A. Obtain and Review Record Data

We will obtain and review available Village data including, but not limited to, subdivision plans and plats, record plans, geotechnical reports, right-of-way data, aerial photography and contour mapping, other existing plans, relevant drainage reports, and water and sewer data .

B. Preliminary Utility Company Coordination

We will call in a Design-Stage J.U.L.I.E. locate request and send letters and project location maps to the utility companies within the project limits requesting copies of their utility atlases.

C. Review Pavement Cores and Prepare Recommendations

Pavement cores will be performed by Rubino Engineering (see attached sub-consultant's proposal). Civiltech will review the pavement cores and any record plans available and prepare a technical memorandum with the proposed improvement method for each street. This report will be submitted to the Village for review prior to the start of the development of the preliminary plans. One meeting and one revision to the memo have been included in the workhours.

D. Preparation of Base Drawings and Plan Sheets

We will use available aerial photography to develop base drawings for the roadway improvements. Base sheets will be prepared at a scale of 1"=20' for use during the contract plan preparation.

E. Field Review

We will prepare a patching survey of the existing pavement. This work will be performed by one of Civiltech's Resident Engineers experienced in local street rehabilitation projects. We will record the lengths of curb and gutter replacement marked by the Village.

We will also prepare a structure inventory report which will include the type and condition for each manhole, catch basin, inlet, and valve vault within the pavement limits. We will assess the need for adjustment, reconstruction or replacement of these structures. This work will also be performed by one of Civiltech's Resident Engineers.

F. Topographic Survey

We will perform topographic survey of up to 2 ADA ramp locations for use in preparing detailed designs.

2. Preliminary (65%) and Pre-Final (95%) Engineering Plans, Special Provisions & Estimates

A. Preliminary and Pre-Final Plans – The Preliminary Plan preparation and submittal will be made to the Village to identify and address any significant design issues prior to completing Pre-Final Plans. This will also allow us to review the estimated project costs in comparison to the original budget.

We will prepare the contract plans in accordance with the applicable sections of the BLRS manual, applicable IDOT Standards and in accordance with current Village standards and practices. We anticipate the plans to include the following:

- Cover Sheet (1 sheet)
- General Notes, Index of Sheets and List of Highway Standards (2 sheets)
- Summary of Quantities (5 sheets)
- Typical Sections (2 sheets)
- Maintenance of Traffic Notes (1 sheet)
- Roadway Plans (1"=20'; dual view) (20 sheets)
- ADA Ramp Details (1"=5') (2 sheets)
- Roadway Construction Details (10 sheets)

ADA locations are to be determined and will be done as necessary for the project.

Maintenance of traffic is anticipated to be accomplished using IDOT Highway Standards, therefore detailed MOT/staging plans will not be prepared.

B. Pre-Final Special Provisions and Contract Book

We will prepare special provisions that supplement or amend the specifications contained in the latest edition of the Standard Specifications for Road and Bridge Construction adopted by the Illinois Department of Transportation and the latest edition of the Standard Specifications for Sewer and Watermain Construction in Illinois. Applicable Village special provisions will be utilized to supplement the Standard Specifications. In addition, we will include the latest IDOT Recurring Special Provisions Check Sheet. The most recent set of IDOT's Bureau of Design and Environment (BDE) Special Provisions and District 1 Special Provisions will be reviewed and included in the special provisions where applicable. We will assemble a contract book that includes the above items as well as the required IDOT MFT standard forms.

C. Pre-Final Quantity Calculations

We will perform detailed quantity calculations at the pre-final stage of the plan development. Two sets of calculations will be performed by separate engineers to ensure the accuracy of the calculations.

D. Pre-Final Estimate of Cost and Construction Time

We will use the quantities of work to calculate an Engineer's Estimate of Cost and Time. The unit prices for the various items of work will be developed based on review and analysis of recent bid tabulations for projects of similar scope and magnitude.

E. Pre-Final QC/QA Review

Prior to submission of the pre-final plans for review, we will perform an internal Quality Control / Quality Assurance review of the work completed. The review will be performed by a professional engineer independent of the design team. The Resident Engineer will also complete a full contract document review at this time. The review will consider constructability issues as well as identification of missing pay items, quantities of work, and special provisions required.

3. Final (100%) Plans, Special Provisions & Estimates

A. Final Plans

After completion of all agency reviews and resolution of any other agency, property owner, or utility company concerns, the contract plans will be finalized. To assist the Resident Engineer, we will furnish the Village, as part of our deliverables, detailed information including all design and quantity calculations. We will also prepare a technical memorandum for the RE highlighting any key issues, commitments, or special concerns that arose during the design stage of the project.

B. Final Special Provisions and Contract Book

All comments received pertaining to the pre-final special provisions and bid documents will be addressed and a disposition will be submitted with the final bid documents.

C. Final Quantity Calculations

The quantities will be updated based on changes made to the plans after the pre-final stage.

D. Final Estimate of Cost and Construction Time

The estimates will be updated based on the revised quantities.

E. Final QC/QA Review

Prior to the final submittal, a second QC/QA review of the plans and special provisions will be performed.

4. Project Administration, Coordination and Permits

A. Project Administration

This item includes project setup and monthly invoicing. In addition, this item includes internal project team coordination and sub-consultant coordination.

B. Project Submittals

As noted above, we will make the necessary document submittals and follow through with each agency in regard to their review comments or arrange a review meeting to discuss plan changes necessary to resolve conflicts if possible.

C. Design Review Meetings

We will meet with the Village to discuss any review comments and design issues. The meetings will be scheduled such that all parties will have had an opportunity to review the submittals and provide comments. All meetings will be documented with Meeting Minutes. Any comments provided by the Village will be documented with a disposition of comments narrative. We have anticipated 2 review meetings.

D. Utility Company Coordination

As noted above, we will analyze the project for potential impacts to existing utilities. We will provide the utility companies with a list of areas of potential conflict so that additional information, such as horizontal locates or vertical locates, can be obtained where necessary to further define the extent of conflicts. We will first attempt to address utility conflicts through design modifications while considering the impact those changes will have on the overall improvement.

E. IDOT Coordination

The construction of this project will include the use of the Village's MFT funds, therefore IDOT will need to approve the project. Civiltech will prepare IDOT's Natural Resource Screening and Screening Sheet for Cultural Clearance for approval by IDOT. We will also submit an EcoCAT to confirm that there are no threatened and endangered species within the project limits.

The pre-final contract (plans and specs) will be submitted to IDOT for their review and approval. The project will also be advertised on IDOT's Contactor's Bulletin for the two weeks prior to the bid opening.

F. Bidding Assistance

Since this is an MFT project, the Village will be responsible for letting the project. We have assumed the Village will advertise the project using the QuestCDN platform, similar to the 2025 and 2026 projects. A pre-bid meeting is not anticipated for this project. We will answer all contractor requests for information or questions during the bidding process, and (if necessary) issue an addendum.

We will also review the bid tab prepared by QuestCDN and prepare a recommendation letter to the Village Board. We will also attend the pre-construction meeting to answer questions regarding the design and contract documents.

III. FEE CALCULATION

To calculate our "not-to-exceed" fee, we estimate work hours to complete the individual tasks outlined in the Scope of Services section of this proposal.

Direct costs such as printing, EcoCAT fees, vehicle expenses, and sub-consultant expenses will be billed at their actual cost. Compensation for our work will be based upon actual labor dollars expended times a factor using IDOT's fixed fee formula to cover actual payroll, overhead and indirect costs, payroll burden and fringe benefit costs and profit.

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Wheeling	Civiltech Engineering, Inc.	Cook	26-00102-00-RS

EXHIBIT 2
PROJECT SCHEDULE

Notice to Proceed - August 2026
Preliminary Submittal - October 2026
Pre-Final Submittal - December 2026
Final Submittal - January 2027

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Wheeling	Civiltech Engineering, Inc.	Cook	26-00102-00-RS

Exhibit 3
Qualification Based Selection (QBS) Checklist

The LPA must complete Exhibit 3. If the value meets or will exceed the small dollar threshold in 50 ILCS 510, QBS requirements must be followed.Under the threshold, QBS requirements do not apply. The small dollar threshold is adjusted annually and can be found in IDOT Circular Letters.If the value is under the threshold with federal funds being used, federal small purchase guidelines must be followed.

☐ Form Not Applicable (engineering services less than the threshold)

Items 1-13 are required when using federal funds and QBS process is applicable. Items 14-16 are required when using State funds and the QBS process is applicable.

		No	Yes
1	Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services?	☐	☐
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual?	☐	☐
3	Was the scope of services for this project clearly defined?	☐	☐
4	Was public notice given for this project?	☐	☐
5	Do the written QBS policies and procedures cover conflicts of interest?	☐	☐
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	☐	☐
7	Do the written QBS policies and procedures discuss the methods of evaluation?	☐	☐

Project Criteria	Weighting

8	Do the written QBS policies and procedures discuss the method of selection?	☐	☐

Selection committee (titles) for this project

Top three consultants ranked for this project in order	
1	
2	
3	

9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	☐	☐
10	Were negotiations for this project performed in accordance with federal requirements.	☐	☐
11	Were acceptable costs for this project verified?	☐	☐
12	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval?	☐	☐
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)?	☐	☐
14	QBS according to State requirements used?	☐	☐
15	Existing relationship used in lieu of QBS process?	☐	☒
16	LPA is a home rule community (Exempt from QBS).	☐	☐

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Village of Wheeling	Cook	26-00102-00-RS

Prime Consultant (Firm) Name	Prepared By	Date
Civiltech Engineering, Inc.	Nathan Murphy	7/22/2026

Consultant / Subconsultant Name	Job Number
Civiltech Engineering, Inc.	

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	12	MONTHS	OVERHEAD RATE	134.33%
START DATE	8/1/2026		COMPLEXITY FACTOR	0
RAISE DATE	4/1/2027		% OF RAISE	3.00%
END DATE	7/31/2027			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	8/1/2026	4/1/2027	8	66.67%
1	4/2/2027	8/1/2027	4	34.33%

The total escalation = 1.00%

Local Public Agency	County	Section Number
Village of Wheeling	Cook	26-00102-00-RS

Consultant / Subconsultant Name	Job Number
Civiltech Engineering, Inc.	

PAYROLL RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

MAXIMUM PAYROLL RATE	**90.00**
ESCALATION FACTOR	**1.00%**

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Director of Design Services	$90.00	$90.00
QC/QA Engineer	$80.00	$80.80
Project Manager	$61.00	$61.61
Project Engineer	$50.00	$50.50
Design Engineer	$40.00	$40.40
Surveyor	$47.00	$47.47
Resident Engineer	$68.00	$68.68

Local Public Agency	County	Section Number
Village of Wheeling	Cook	26-00102-00-RS

Consultant / Subconsultant Name	Job Number
Civiltech Engineering, Inc.	

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Rubino Engineering, Inc.		

Total	0.00	0.00

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Local Public Agency	County	Section Number
Village of Wheeling	Cook	26-00102-00-RS

Consultant / Subconsultant Name	Job Number
Civiltech Engineering, Inc.	

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	690	$0.73	$500.25
Vehicle Owned or Leased	$32.50/half day (4 hours or less) or $65/full day			$0.00
Vehicle Rental	Actual Cost (Up to $55/day)			$0.00
Tolls	Actual Cost			$0.00
Parking	Actual Cost			$0.00
Overtime	Premium portion (Submit supporting documentation)			$0.00
Shift Differential	Actual Cost (Based on firm's policy)			$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)	5	$50.00	$250.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			$0.00
Project Specific Insurance	Actual Cost			$0.00
Monuments (Permanent)	Actual Cost			$0.00
Photo Processing	Actual Cost			$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			$0.00
CADD	Actual Cost (Max $15/hour)			$0.00
Web Site	Actual Cost (Submit supporting documentation)			$0.00
Advertisements	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			$0.00
Recording Fees	Actual Cost			$0.00
Transcriptions (specific to project)	Actual Cost			$0.00
Courthouse Fees	Actual Cost			$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
EcoCat Permit		1	$125.00	$125.00
			TOTAL DIRECT COSTS:	**$875.25**

Local Public Agency: Village of Wheeling

County: Cook

Section Number: 26-00102-00-RS

Consultant / Subconsultant Name: Civiltech Engineering, Inc.

Job Number:

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 134.33%

COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Data Collection and Early Coordination		188	9,934	13,345	3,278	15,765	42,322	33.88%
Preliminary and Pre-Final P,S&E		389	19,264	25,878	6,357		51,499	41.23%
Final P, S&E		124	6,323	8,494	2,087		16,904	13.53%
Preojct Admin. and Coordination		87	4,977	6,685	1,642		13,304	10.65%
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Subconsultant DL							$0.00	
Direct Costs Total ===>	$0.00						**$875.25**	0.70%
TOTALS		788	40,498	54,402	13,364	15,765	124,904	100.00%

94,900

BLR 05514 (Rev. 02/06/25)

Local Public Agency
Village of Wheeling

County
Cook

Section Number
26-00102-00-RS

Consultant / Subconsultant Name
Civiltech Engineering, Inc.

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Data Collection and Early Coordination			Preliminary and Pre-Final P,S&E			Final P, S&E			Preojct Admin. and Coordination					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Director of Design Services	90.00	16.0	2.03%	1.83	1	0.53%	0.48	6	1.54%	1.39	4	3.23%	2.90	5	5.75%	5.17			
QC/QA Engineer	80.80	16.0	2.03%	1.64	0			12	3.08%	2.49	4	3.23%	2.61	0					
Project Manager	61.61	144.0	18.27%	11.26	19	10.11%	6.23	59	15.17%	9.34	24	19.35%	11.92	42	48.28%	29.74			
Project Engineer	50.50	270.0	34.26%	17.30	44	23.40%	11.82	150	38.56%	19.47	44	35.48%	17.92	32	36.78%	18.57			
Design Engineer	40.40	282.0	35.79%	14.46	64	34.04%	13.75	162	41.65%	16.82	48	38.71%	15.64	8	9.20%	3.71			
Surveyor	47.47	12.0	1.52%	0.72	12	6.38%	3.03												
Resident Engineer	68.68	48.0	6.09%	4.18	48	25.53%	17.54												
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TOTALS		788.0	100%	$51.39	188.0	100.00%	$52.84	389.0	100%	$49.52	124.0	100%	$50.99	87.0	100%	$57.20	0.0	0%	$0.00

WORKHOURS

Task No.	Task	Personnel & Hours: Director of Design Services	QC/QA Engineer	Project Manager	Project Engineer	Design Engineer	Surveyor	Resident Engineer	Total	% of Hours
1	**Data Collection and Early Coordination**									
A.	Obtain and Review Record Data			2	2	2			6	3.2%
B.	Preliminary Utility Company Coordination			1	4				5	2.7%
C.	Review Pavement Cores and Prepare Recommendations	1		4	12	8			25	13.3%
D.	Preparation of Base Drawings and Plan Sheets			2	8	32			42	22.3%
E.	Field Review			8	16	16		48	88	46.8%
F.	Topographic Survey			2	2	6	12		22	11.7%
	Sub-total Item 1	**1**	**0**	**19**	**44**	**64**	**12**	**48**	**188**	**100.0%**
2	**Preliminary (65%) and Pre-Final (95%) P, S & E**									
A.	Preliminary and Pre-Final Plans									
	Cover Sheet (1 sheet)			1	2	2			5	1.3%
	General Notes, Index of Sheets and List of Highway Standards (2 sheets)			1	1	2			4	1.0%
	Summary of Quantities (5 sheets)			1	1	2			4	1.0%
	Typical Sections (2 sheets)			2	4	12			18	4.6%
	Maintenance of Traffic Notes (1 sheet)			1	2	4			7	1.8%
	Roadway Plans (1"=20'; dual view) (20 sheets)	2		24	72	80			178	45.8%
	ADA Ramp Details (1"=5') (2 sheets)			2	16	8			26	6.7%
	Roadway Construction Details (10 sheets)			1	2	4			7	1.8%
B.	Pre-Final Special Provisions and Contract Book	1		16	16	8			41	10.5%
C.	Pre-Final Quantity Calculations			8	32	40			80	20.6%
D.	Pre-Final Estimate of Cost and Construction Time	1		2	2				5	1.3%
E.	Pre-Final QC/QA Review	2	12						14	3.6%
	Sub-total Item 2	**6**	**12**	**59**	**150**	**162**	**0**	**0**	**389**	**100.0%**
3	**Final (100%) P, S & E**									
A.	Final Plans	2		16	24	32			74	59.7%
B.	Final Special Provisions and Contract Book			4	4				8	6.5%
C.	Final Quantity Calculations			2	16	16			34	27.4%
D.	Final Estimate of Cost and Construction Time			2					2	1.6%
E.	Final QC/QA Review	2	4						6	4.8%
	Sub-total Item 3	**4**	**4**	**24**	**44**	**48**	**0**	**0**	**124**	**100.0%**
4	**Project Administration and Coordination**									
A.	Project Administration	4		12					16	18.4%
B.	Project Submittals			4	4	8			16	18.4%
C.	Design Review Meetings			4	6				10	11.5%
D.	Utility Company Coordination			8	16				24	27.6%
E.	IDOT Coordination	1		12	4				17	19.5%
F.	Bidding Assistance			2	2				4	4.6%
	Sub-total Item 4	**5**	**0**	**42**	**32**	**8**	**0**	**0**	**87**	**100.0%**
	Total Hours:	**16**	**16**	**144**	**270**	**282**	**12**	**48**	**788**	
	% of Hours:	**2.0%**	**2.0%**	**18.3%**	**34.3%**	**35.8%**	**1.5%**	**6.1%**	**100.0%**	

July 15, 2026

To: Nathan E. Murphy, PE
Civiltech Engineering, Inc.
2 Pierce Place | Suite 1400
Itasca, Illinois 60143
P: 630.735.3377

Re: Proposal – Pavement Cores and CCDD
Proposed 2027 MFT Street Resurfacing Program in Village of Wheeling, Illinois.
Various Streets

Proposal No. Q26.382g

Via email: nmurphy@civiltechinc.com

Dear Mr. Murphy,

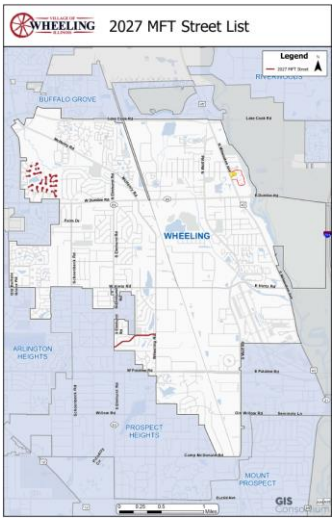
Rubino Engineering, Inc. (Rubino) is pleased to submit the following proposal to provide geotechnical engineering services for the above referenced project. Rubino received a request for proposal from Nathan E. Murphy, PE of Civiltech Engineering, Inc. via email on July 8th, 2026.

PROJECT UNDERSTANDING

Rubino understands that Civiltech Engineering, Inc. is planning to aid in the resurfacing of various streets in the Village of Wheeling as part of the Village of Wheeling's 2027 MFT Street Resurfacing project. There is a possibility of pozzolanic base material along Shadow Bend Drive.

Information received:

- RFP email from Nathan E. Murphy, PE of Civiltech Engineering, Inc. on July 8th, 2026.
- Documents included in RFP email:
  - "2027 MFT Street List.xlsx"
  - Project Location Map : "2027 MFT Street List Map – Rubino.pdf" (shown partially below)



Field Services Scope of Services Summary Additional Scope discussion can be found in subsequent pages of this proposal	
Client Notification Needed prior to mobilization	Please notify Rubino if this is needed upon project authorization
Field Equipment Proposed	Core Machine and Hand Direct Push
Pavement and Soil Sampling and Purpose	**Pavement Cores**: • Core through pavement and subbase • 2 – 3 ft LB push in ROW at each core ○ **Note: Label the ROW Push as "P"** ○ pH Testing (IEPA Lab)
CCDD	662 & 663

Pavement Coring

To obtain data to evaluate subsurface conditions within the proposed pavement reconstruction areas, Rubino proposes to perform the pavement core with a Milwaukee Drill and a two foot diamond-bit core barrel in the pavement core locations.

NUMBER OF CORES W/SUBBASE THICKNESS DETERMINATION	LOCATION	CORE NUMBERS	MAX DEPTH
5	Shadow Bend Drive (Possible Pozz)	C-01 through C-05	2 feet below pavement surface
5	Equestrian Drive	C-06 through C-10	
25	Various Streets – Arlington Club Complex	C-11 through C-35	

35 Total Cores

CCDD Soil Sampling

NUMBER SAMPLES FOR CCDD TESTING	TARGET DEPTH (FEET BEG*)	ANALYTICAL TESTS
35 (Core Locations, in ROW)	2 – 3	pH
1 (E-01, East End of Equestrian)	2 – 3	VOC's, SVOC's, RCRA Metals, pH

*BEG = below existing grade

Should any of the information on which this proposal has been based, including as described above, be inconsistent with the planned construction, Rubino requests to be contacted immediately in order to make any necessary changes to this proposal and scope of work.

SCOPE OF SERVICES DISCUSSION

The following sections outline the scope of services developed based on the information provided by the client and the information listed above in order to provide a geotechnical exploration the planned project. The exploration will be performed in general accordance with both the requested proposal information and Rubino's current understanding of the project.

Site Access

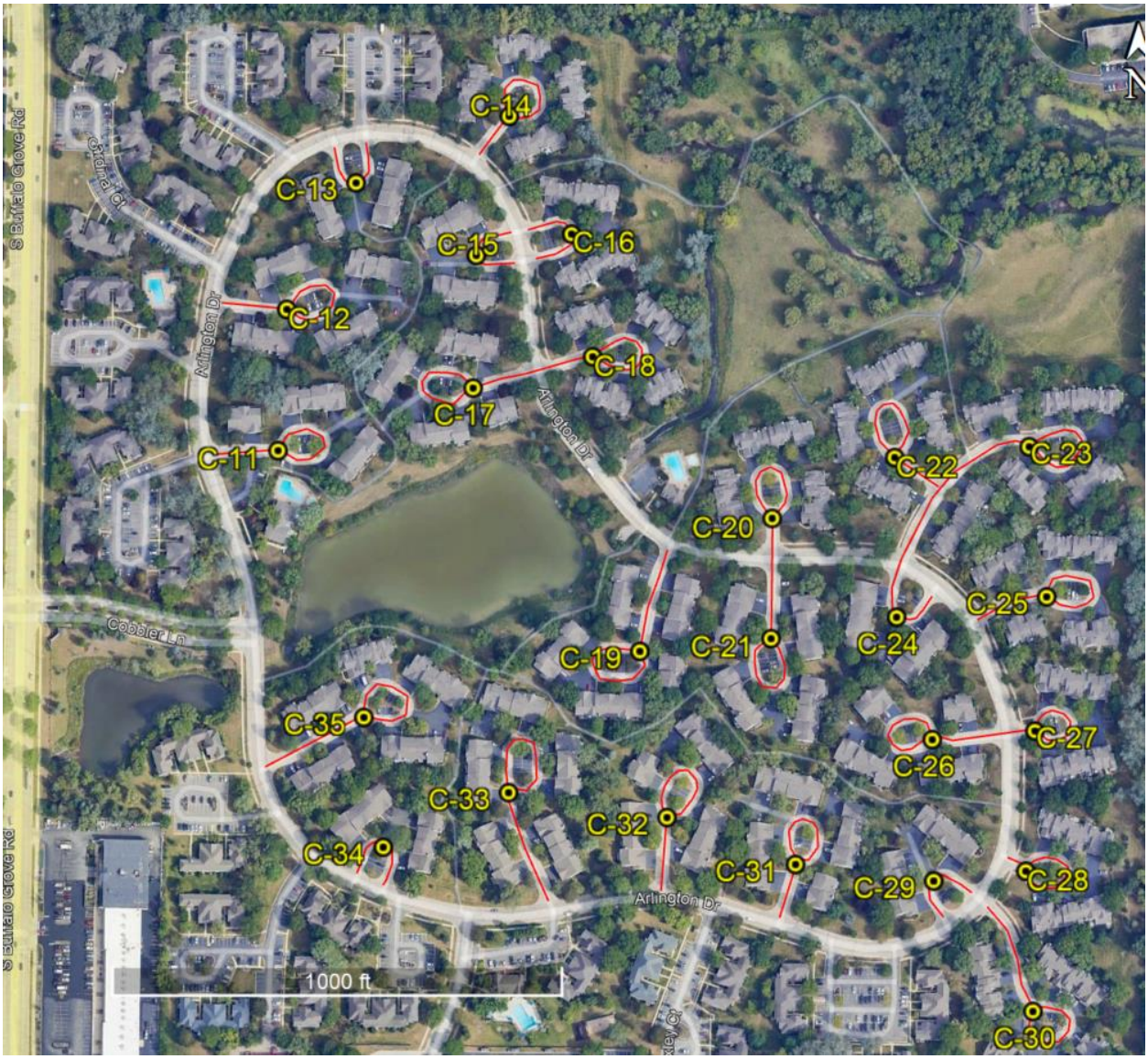
Based on current site topography, surface conditions, and project discussions, Rubino anticipates that the proposed core locations will be within existing paved areas and will therefore be accessible to a pickup truck.

Core Locations

Rubino will locate the cores in the field by measuring distances from known, fixed site features.




N
Pleasant Run Dr
Highgoal Dr
Equestrian Dr
Bridle Trail
Longacre Ln
S Paddock Dr
W Paddock Dr
Wheeling Rd
C-01
C-06
C-07
C-08
C-09
C-10
1000 ft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Cardinal Ct
Arlington Dr
Cobbler Ln
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C-12
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C-35
1000 ft

Completion of Cores

Upon completion of sampling, the cores will be backfilled and capped with Quikrete. Some damage to ground surface may result from the coring operations near the work areas and along ingress/egress pathways. Rubino will attempt to minimize such damage, but no restoration other than backfilling the core holes are included.

It should be noted that over time, some settlement may occur in the core hole or the patch may be damaged by traffic or snow plows. If Rubino is requested to return to the site for the purpose of filling any holes that may have settled, additional time and material charges may apply.

CCDD TESTING – LPC 662 ONLY

Rubino will obtain a "Potential Impacted Property" (PIP) evaluation of the area near the proposed improvements.

If the PIP evaluation indicates no further testing is needed for form LPC-662, Rubino will composite soil samples from each borehole for soil analytical testing in general compliance with the IEPA CCDD requirements.

- PIP Evaluation (Historical & Regulatory)
  - 2 Eris Report
- Soil Analytical Tests:
  - pH (30 total tests)
- P.E. Certification (LPC #662)
- *LPC-662 CCDD Certification, as applicable*

Please note that CCDD certification requirements vary depending on the dump site. The above scope should be reviewed by the proposed dump site to determine compliance with the site's specific requirements.

CCDD TESTING – LPC 663 ONLY

Rubino has obtained a "Potential Impacted Property" (PIP) evaluation of the area near the proposed improvements along Equestrian Dr.

The PIP evaluation indicates further testing is needed for form LPC-663, Rubino will perform PID testing on the soil samples and soil analytical testing in general compliance with the IEPA CCDD requirements. Laboratory testing will be at the discretion of the environmental professional based on knowledge of the location of the borings.

LPC 663 Testing Scope
• PIP Evaluation (Historical & Regulatory) • Soil Analytical Tests **(1 full analytical, 5 pH)**:   ○ Volatile Organic Compounds (VOCs), Semi Volatile Organic Compounds (SVOCs), Polynuclear Aromatic Hydrocarbons (PNAs),

Resource Conservation Recovery Act (RCRA) Metals, pH ○ TCLP / SPLP RCRA Metal (**only if necessary**) • P.E. / P.G. Review & Certification (LPC #663) • *LPC-663 CCDD Certification, as applicable*

If the analytical testing indicates the soils are contaminated, additional testing and an additional disposal source may be necessary (Composite Non-Hazardous Non-Special Waste Analytical for landfill disposal if necessary).

GEO REPORT

Upon completion of field and laboratory work, Rubino will prepare a geotechnical engineering report using the collected data. The geo report will include the following:

- *Summary of client-provided project information and report basis*
- *Core Location Plan*
- *Photo documentation of field conditions and core specimens*
- *Subbase stone thickness*

An electronic copy of the report will be provided. The report will be addressed to Civiltech Engineering, Inc.

PROJECT SCHEDULE

Rubino proposes to initiate work on this project within 5 working days after receiving written authorization to proceed and we will follow the schedule below in order to complete the project:

Task	Number of Working Days
Utility clearance and mobilization	5 – 10
Field work including site layout	3 – 4
CCDD Lab Testing	8 – 12
CCDD and Reporting	5 - 10

Project schedules can be affected by weather conditions and changes in scope. If the report needs to be delivered by a specific day, please notify us as soon as possible. Preliminary verbal recommendations can be made to appropriate parties upon completion of the field investigation and laboratory testing. Rubino will need to receive a signed copy of this proposal intact prior to mobilizing the drill rig.

UTILITY LOCATE AND OUTSIDE SERVICES

Rubino will coordinate contacting the Utility “One-Call” for public utility clearance prior to the start of drilling activities. It is Rubino’s experience that this service does not mark the locations of privately owned utilities. This proposal is based on privately owned utility locates being coordinated by the owner prior to drill rig mobilization.

FEES

Rubino proposes to charge the fee for performance of the outlined scope of services on a lump-sum basis. Based on the scope of services outlined above, the lump-sum fee will be:

Subsurface Exploration	Boring Layout / Utility / PM	$ 1,300.00	Lump sum
	Pavement Cores and CCDD Sampling	$ 8,640.00	Lump sum
Reporting	Preparation of the Summary Report	$ 1,300.00	Lump sum
CCDD 662	pH testing at IEPA accredited lab	$ 750.00	Lump sum
	PIP Evaluation and LPC Form 662:	$ 1,500.00	Lump sum
CCDD 663	pH testing at IEPA accredited lab	$ 125.00	Lump sum
	Soil Analytical Testing	$ 650.00	Lump sum
	PIP Evaluation and LPC Form 662:	$ 1,500.00	Lump sum
		$15,765.00	**Grand Total**

Please see the attached fee schedule for additional unit rates for services requested after issuing the geotechnical report (drawing / spec review, scope or site layout change, etc.).

Scope Limitations

Project services do not include a site evaluation to determine the presence or absence of wetlands, hazardous substances, or toxic materials.

AUTHORIZATION

If this proposal is acceptable to you, Rubino will perform the work in accordance with the attached General Conditions that are incorporated into and made a part of this proposal. Please sign below as notice to proceed and return one copy of this proposal intact to our office. Rubino will proceed with the work upon receipt of authorization.

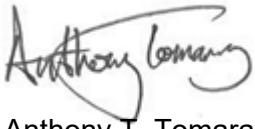
Rubino appreciates the opportunity to offer our services for this project and we look forward to working with your company. Please contact Rubino with questions pertaining to this proposal or requests for additional services.

Respectfully submitted,

RUBINO ENGINEERING, INC.



Michelle A. Lipinski, PE
President
michelle.lipinski@rubinoeng.com



Anthony T. Tomaras, PG
Project Manager
anthony@rubinoeng.com

Prepared By: Jonathan Ignarski, jonathan@rubinoeng.com

RUBINO ENGINEERING, INC. IS:
AN AASHTO-ACCREDITED LABORATORY
IDOT PREQUALIFIED
IDOT DBE-CERTIFIED (100% WOMAN-OWNED)

MAL/file

Attachments: Proposal Acceptance and Data Sheet
Schedule of Services and Fees
General Conditions

**This is an electronic copy. Hard Copies of this proposal are available upon request.

PROPOSAL ACCEPTANCE:

AGREED TO, THIS _____ **DAY OF** _____ **, 202__.**

BY *(please print)*: _____

TITLE: _____

COMPANY: _____

SIGNATURE: _____

PROJECT INFORMATION:

1. Project Name: _____
2. Project Location: _____
3. Your Job No: _____ Purchase Order No.: _____
4. Project Manager: _____ Telephone No.:_____
5. Site Contact:_____ Telephone No.:_____
6. Number and Distribution of Reports:

   ( ) Copies To: _____ ( ) Copies To: _____

   _____ _____

   _____ _____

   Attn: _____ Attn:_____

   Email: _____ **Email:** _____

   ( ) Copies To: _____ ( ) Copies To: _____

   _____ _____

   _____ _____

   Attn: _____ Attn:_____

   Email: _____ **Email:** _____

7. Invoicing Address: _____

   _____

   _____

   Attn: _____

   Email: _____
8. Other Pertinent Information Or Previous Subsurface Information Available:

   _____

   _____

Rubino Engineering, Inc.

2026 Schedule of Geotechnical Services & Fees

ENGINEERING

Professional and Technical Services for site evaluation, field supervision, analysis of test data and engineering recommendations and consultation:

Principal Engineer	Per Hour	$	185.00
Project Engineer/Manager	Per Hour	$	140.00
Engineering Field Technician / Field Engineer / Field Geologist	Per Hour	$	120.00

SUBSURFACE EXPLORATION

Mobilization and moving of truck-mounted drilling equipment and crew (50-mile radius)	Per Trip	$	650.00
Hourly Rate Drilling	Per Hour	$	475.00
Thin Wall Tubes (ASTM D-1587)	Each	$	50.00

LABORATORY TESTING

Moisture Content Test / Visual Classification	Each	$	8.90
Atterberg Limits Determination (LL, PL)	Each	$	65.00
Combined Hydrometer & Sieve Analysis	Each	$	150.00
Sieve Analysis (washed)	Each	$	95.00
Unconfined Compression Test, with Stress-Strain Curve	Each	$	95.00
Density Determination	Each	$	15.00
Specific Gravity Determination	Each	$	65.00
Organic Content Determination Test (loss on ignition)	Each	$	15.00
One-Dimensional Consolidation Test (ASTM D-2435)	Each	$	750.00
Triaxial Testing (TXC-CIU) 3-Point Envelope	Each	$	1,800.00

EQUIPEMENT CHARGES

Vehicle Charge – Round Trip	Per Day	$	95.00

FEE REMARKS

1) All fees and services are provided in accordance with the attached Rubino General Conditions.
2) Unit prices/rates are in effect for 12 months from the date of this proposal and are subject to change without notice thereafter.
3) Overtime rates are applicable for services performed in excess of 8 hours per day Monday through Friday, before 8:00 AM or after 5:00 PM, and for all hours worked on Saturdays, Sundays and holidays. The overtime rate is 1.5 times the applicable hourly rate.
4) All rates are billed on a portal-to-portal basis.
5) Standby time due to delays beyond Rubino's control will be charged at the applicable hourly rate.
6) Transportation and per diem are charged at the applicable rates.
7) Rates involving mileage (including transportation, mobilization, vehicle and trip charges) are subject to change based upon increases in the national average gasoline price.
8) A minimum charge of 4 hours applies to field testing and observation services.
9) Scheduling or cancellation of field testing and observation services is required no less than the working day prior to the date the services are to be performed. Services cancelled without advance and/or inadequate notice will be assessed a minimum charge of 4 hours.
10) For all Rubino services, a project management/engineering review charge will be billed for all reports issued for the scheduling/supervision of personnel and the evaluation/review of data and reports.
11) The minimum billing increment for time is a half hour.
12) A project set-up charge of a minimum of two hours applies to all projects.
13) Professional services rates are exclusive of expert deposition or testimony time.
14) Drilling and field service rates are based on OSHA Level D personnel protection.
15) For sites where drilling is to occur that are not readily accessible to a truck mounted drill rig, rates for rig mobility, site clearing, crew stand-by time, etc. will be charged as applicable.
16) If applicable the prevailing wage fees charged under this agreement will be adjusted if there is any change in the applicable prevailing wage rate established by the Illinois Department of Labor.
17) Services and fees not listed on this schedule may be quoted on request.

Rubino Engineering, Inc.

Client#: 1171577 RUBINENG

ACORD **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY): 10/02/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER USI Insurance Services LLC 2001 Spring Road, Ste 200 Oak Brook, IL 60523 312 442-7200	CONTACT NAME: Laurie Cloninger PHONE (A/C, No, Ext): 630 625-5219 FAX (A/C, No): 610 537-4939 E-MAIL ADDRESS: AEcertificates@usi.com
INSURED Rubino Engineering, Inc. 425 Shepard Dr Elgin, IL 60123	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A: RLI Insurance Company — 13056 INSURER B: Pacific Insurance Company, Limited — 10046 INSURER C: INSURER D: INSURER E: INSURER F:

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:			PSB0003777	09/01/2025	09/01/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $1,000,000 $10,000 $1,000,000 $2,000,000 $2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY			PSA0001881	09/01/2025	09/01/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000 $ $ $
A	UMBRELLA LIAB X OCCUR X EXCESS LIAB CLAIMS-MADE DED RETENTION $			PSE0002142	09/01/2025	09/01/2026	EACH OCCURRENCE AGGREGATE	$5,000,000 $5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N: Y (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		PSW0002789	09/01/2025	09/01/2026	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$1,000,000 $1,000,000 $1,000,000
B	Professional Liability			83OH056719925	09/01/2025	09/01/2026	$2,000,000 each claim / $4,000,000 annual aggr.	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Professional Liability is written on a 'claims made' policy form.

Some or all officers are excluded from Workers Compensation coverage.

THIS CERTIFICATE OF INSURANCE IS INTENDED AS A SPECIMEN COPY ONLY.

CERTIFICATE HOLDER	CANCELLATION
Rubino Engineering, Inc.	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

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ACORD 25 (2016/03) 1 of 1 The ACORD name and logo are registered marks of ACORD
#S51133355/M50716566 SXNAB

GENERAL CONDITIONS

1. PARTIES AND SCOPE OF SERVICES: Rubino Engineering, Inc. shall include said company or its particular division, subsidiary or affiliate performing the services. "Services" means the specific geotechnical, analytical, testing or other service to be performed by Rubino Engineering, Inc. as set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. Additional services ordered by Client shall also be subject to these General Conditions. "Client" refers to the person or business entity ordering the services to be done by Rubino Engineering, Inc. If Client is ordering the services on behalf of another, Client represents and warrants that it is the duly authorized agent of said party for the purpose of ordering and directing said services. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by the client is adequate and sufficient for Client's intended purpose. Client shall communicate these General Conditions to each and every third party to whom Client transmits any part of Rubino Engineering, Inc.'s services. Rubino Engineering, Inc. shall have no duty or obligation to any third party greater than that set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. The ordering of services from Rubino Engineering, Inc., or the reliance on any of Rubino Engineering, Inc.'s work, shall constitute acceptance of the terms of Rubino Engineering, Inc.'s proposal and these General Conditions, regardless of the terms of any subsequently issued document.

2. TESTS AND INSPECTIONS: Client shall cause all tests and inspection of the site, materials and work performed by Rubino Engineering, Inc. or others to be timely and properly performed in accordance with the plans, specifications and contract documents and Rubino Engineering, Inc.'s recommendations. No claims for loss, damage or injury shall by brought against Rubino Engineering, Inc. by Client or any third party unless all tests and inspections have been so performed and unless Rubino Engineering, Inc.'s recommendations have been followed. Client agrees to indemnify, defend and hold Rubino Engineering, Inc., its officers, employees and agents harmless from any and all claims, suits, losses, costs and expenses, including, but not limited to, court costs and reasonable attorney's fees in the event that all such tests and inspections are not so performed or Rubino Engineering, Inc.'s recommendations are not so followed except to the extent that such failure is the result of the negligence, willful or wanton act of omission of Rubino Engineering, Inc., its officers, agents or employees, subject to the limitation contained in paragraph 9.

3. SCHEDULING OF SERVICES: The services set forth in Rubino Engineering, Inc.'s proposal and Client's acceptance will be accomplished in a timely, workmanlike and professional manner by RUBINO ENGINEERING, INC. personnel at the prices quoted. If Rubino Engineering, Inc. is required to delay commencement of the services or if, upon embarking upon its services, Rubino Engineering, Inc. is required to stop or interrupt the progress of its services as a result of changes in the scope of the services requested by Client, to fulfill the requirements of third parties, interruptions in the progress of construction, or other causes beyond the direct reasonable control of Rubino Engineering, Inc., additional charges will be applicable and payable by Client.

4. ACCESS TO SITE: Client will arrange and provide such access to the site as is necessary for Rubino Engineering, Inc. to perform the services. Rubino Engineering, Inc. shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as the result of its services or the use of its equipment; however, Rubino Engineering, Inc. has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires Rubino Engineering, Inc. to restore the site to its former condition, upon written request Rubino Engineering, Inc. will perform such additional services as is necessary to do so and Client agrees to pay Rubino Engineering, Inc. for the cost.

5. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that it has advised Rubino Engineering, Inc. of any known or suspected hazardous materials, utility lines and pollutants at any site at which Rubino Engineering, Inc. is to perform services hereunder, and unless Rubino Engineering, Inc. has assumed in writing the responsibility of locating subsurface objects, structures, lines or conduits. Rubino Engineering, Inc. may use such information in performing its services and is entitled to rely upon the accuracy and completeness thereof. Client agrees to defend, indemnify and save Rubino Engineering, Inc. harmless from all claims, suits, loses costs and expenses, including reasonable attorney's fees as a result of personal injury, death or property damage occurring with respect to Rubino Engineering, Inc.'s performance of its work and resulting to or caused by contact with subsurface of latent objects, structures, lines or conduits where the actual or potential presence and location thereof were not revealed to Rubino Engineering, Inc. by Client and/or by any of Client's subcontractors or sub consultants

6. RESPONSIBILITY: Rubino Engineering, Inc.'s services shall not include determining, supervising or implementing the means, methods, techniques, sequences or procedures of construction. Rubino Engineering, Inc. shall not be responsible for evaluating, reporting or affecting job conditions concerning health, safety or welfare. Rubino Engineering, Inc.'s services or failure to perform same shall not in any way excuse any contractor, subcontractor or supplier from performance of its work in accordance with the contract documents. Rubino Engineering, Inc. has no right or duty to stop the contractor's work.

7. SAMPLE DISPOSAL: Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of Rubino Engineering, Inc.'s report.

8. PAYMENT: Client shall be invoiced once each month for services performed during the preceding period. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to for valid cause in writing with said thirty (30) day period at the rate of eighteen (18) percent per annum (or the maximum interest rate permitted under applicable law), until paid. Client agrees to pay Rubino Engineering, Inc.'s cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees. Rubino Engineering, Inc. shall not be bound by any provision or agreement requiring or providing for arbitration or disputes or controversies arising out of this agreement, any provision wherein Rubino Engineering, Inc. waives any rights to a mechanics' lien, or any provision conditioning Rubino Engineering, Inc.'s right to receive payment for its services upon payment to Client by any third party. These General Conditions are notice, where required, that Rubino Engineering, Inc. shall file a lien whenever necessary to collect past due amounts. Release of such lien shall be given only when payment in full has been received for services duly rendered. Failure to make payment within thirty (30) days of invoice shall constitute a release of Rubino Engineering, Inc. from any and all claims which Client may have, whether in tort, contract or otherwise and whether known or unknown at the time.

9. STANDARD OF CARE: RUBINO ENGINEERING, INC.'S SERVICES WILL BE PERFORMED, ITS FINDINGS OBTAINED AND ITS REPORTS PREPARED IN ACCORDANCE WITH ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, THESE GENERAL CONDITIONS AND WITH GENERALLY ACCEPTED PRINCIPLES AND PRACTICES. IN PERFORMING ITS PROFESSIONAL SERVICES, RUBINO ENGINEERING, INC. WILL USE THAT DEGREE OF CARE AND SKILL ORDINARILY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY MEMBERS OF ITS PROFESSION. RUBINO ENGINEERING, INC. MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, IN CONNECTION WITH ITS SERVICES PROVIDED AS SET FORTH IN ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, AND THESE GENERAL CONDITIONS. STATEMENTS MADE IN RUBINO ENGINEERING, INC. REPORTS ARE OPINIONS BASED UPON ENGINEERING JUDGMENT AND ARE NOT TO BE CONSTRUED AS REPRESENTATIONS OF FACT.

SHOULD RUBINO ENGINEERING, INC. OR ANY OF ITS PROFESSIONAL EMPLOYEES BE FOUND TO HAVE BEEN NEGLIGENT IN THE PERFORMANCE OF ITS WORK, OR TO HAVE MADE AND BREACHED ANY EXPRESSED OR IMPLIED WARRANTY, REPRESENTATION OR CONTRACT, CLIENT, ALL PARTIES CLAIMING THROUGH CLIENT AND ALL PARTIES CLAIMING TO HAVE IN ANY WAY RELIED UPON RUBINO ENGINEERING, INC.'S WORK, AGREE THAT THE MAXIMUM AGGREGATE AMOUNT OF THE LIABILITY OF RUBINO ENGINEERING, INC., ITS OFFICERS, EMPLOYEES AND AGENTS SHALL BE LIMITED TO $10,000.00 OR THE TOTAL AMOUNT OF THE FEE PAID TO RUBINO ENGINEERING, INC. FOR ITS WORK PERFORMED WITH RESPECT TO THE PROJECT, WHICHEVER AMOUNT IS GREATER.

NO ACTION OR CLAIM, WHETHER IN TORT, CONTRACT OR OTHERWISE, MAY BE BROUGHT AGAINST RUBINO ENGINEERING, INC., ARISING FROM OR RELATED TO RUBINO ENGINEERING, INC.'S WORK, MORE THAN TWO (2) YEARS AFTER THE CESSATION OF RUBINO ENGINEERING, INC.'S WORK HEREUNDER.

10. INDEMNITY: To the fullest extent permitted by law, Client and Rubino Engineering, Inc. each agree to indemnify the other party and the other party's officers, directors, partners, employees, and representatives, from and against losses, damages, and judgments arising from claims by third parties, including reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are found to be caused by a negligent act, error, or omission of the indemnifying party or any of the indemnifying party's officers, directors, members, partners, agents, employees, subcontractors, or subconsultants in the performance of services under this Agreement. If claims, losses, damages, and judgments are found to be caused by the joint or concurrent negligence of Client and Rubino Engineering, Inc., they shall be borne by each party in proportion to its negligence.

11. TERMINATION: This Agreement may be terminated by either party upon seven (7) days' prior written notice. In the event of termination, Rubino Engineering, Inc. shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses and for the completion of such services and records as are necessary to place Rubino Engineering, Inc.'s files in order and/or protect its professional reputation. Failure of Client to make payments when due shall be cause for suspension of services or, ultimately, termination, unless and until Rubino Engineering Inc. has been paid in full all amounts due for services, expenses and other related changes.

12. DISPUTE RESOLUTION: In the event of a dispute arising out of or relating to this Agreement or the services to be rendered hereunder, the Client and Rubino Engineering, Inc. agree to attempt to resolve such disputes in the following manner: 1) The parties agree to attempt to resolve any and all unsettled claims, counterclaims, disputes and other matters in question through direct negotiations between the appropriate representatives of each party; 2) If such negotiations are not fully successful, the parties agree to submit any and all remaining unsettled claims, counterclaims, disputes and other matters in question to mediation in accordance with the Construction Industry Mediation Rules of the American Arbitration Association, effective as of the date of this Agreement.

13. WITNESS FEES: Rubino Engineering, Inc.'s employees shall not be retained as expert witnesses except by separate written agreement. Client agrees to pay Rubino Engineering, Inc.'s legal expenses, administrative costs and fees pursuant to Rubino Engineering, Inc.'s then current fee schedule for Rubino Engineering, Inc. to respond to any subpoena.

14. NO HIRE: Client agrees not to hire Rubino Engineering, Inc.'s employees except through Rubino Engineering, Inc. In the event Client hires a Rubino Engineering, Inc. employee, Client shall pay Rubino Engineering, Inc. an amount equal to one-half of the employee's annualized salary, with Rubino Engineering, Inc. waiving other remedies it may have.

15. HAZARDOUS MATERIALS: Nothing contained within this agreement shall be construed or interpreted as requiring Rubino Engineering, Inc. to assume the status of an owner, operator, generator, storer, transporter, treater or disposal facility as those terms appear within RCRA, CERCLA, or within any Federal or State statute or regulation governing the generation, transportation, treatment, storage and disposal of pollutants. Client assumes full responsibility for compliance with the provisions of RCRA, CERCLA, and any other Federal or State statute or regulation governing the handling, treatment, storage and disposal of pollutants.

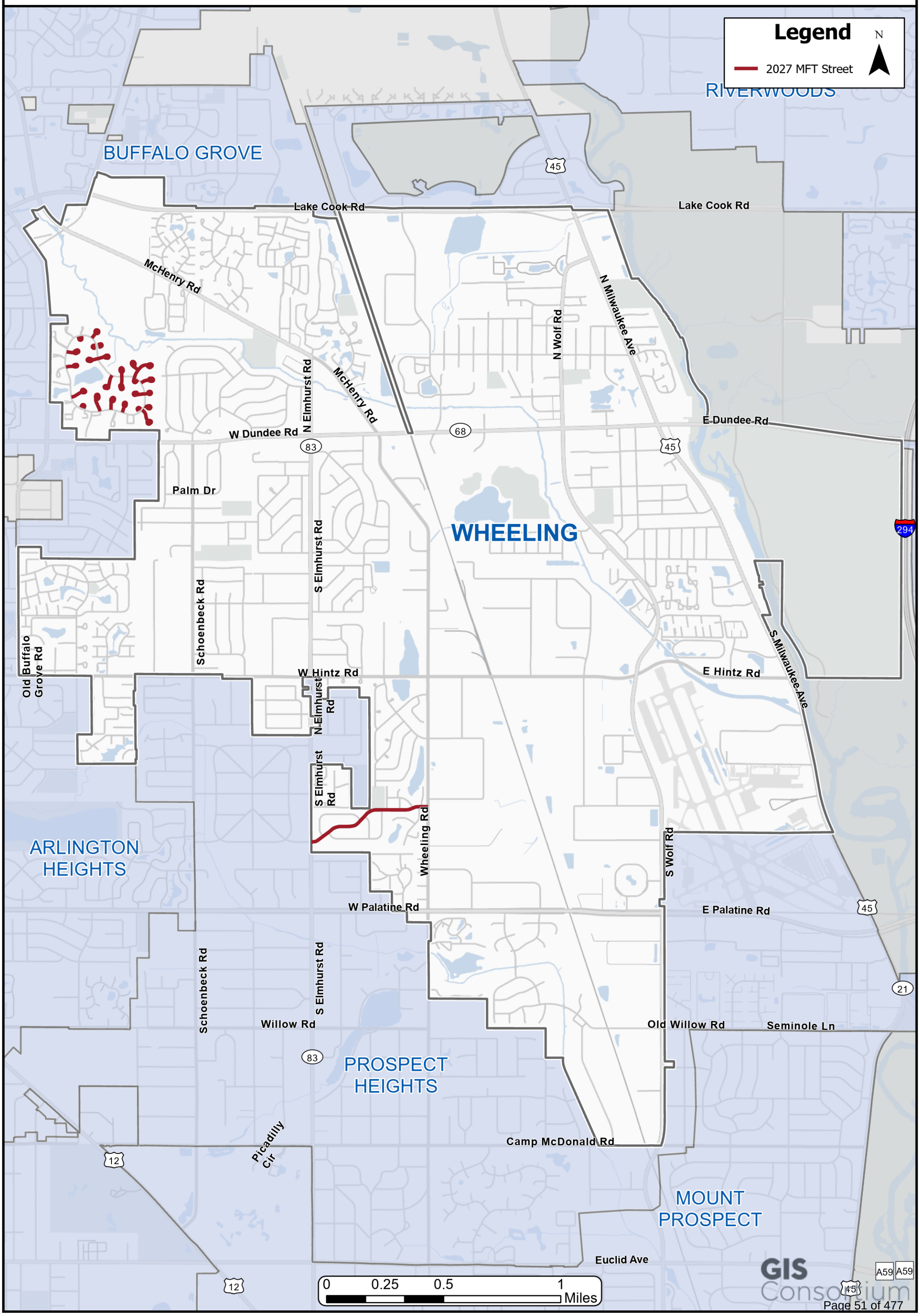
16. PROVISIONS SEVERABLE: The parties have entered into this agreement in good faith and it is the specific intent of the parties that the terms of the General Conditions be enforced as written. In the event any of the provisions of these General Conditions should be found to be unenforceable, it shall be stricken and the remaining provisions shall be enforceable.

17. ENTIRE AGREEMENT: This agreement constitutes the entire understanding of the parties, and there are no representations, warranties or undertakings made other than as set forth herein. This agreement may be amended, modified or terminated only in writing, signed by each of the parties hereto.

Rubino Engineering, Inc.

VILLAGE OF WHEELING ILLINOIS

2027 MFT Street List



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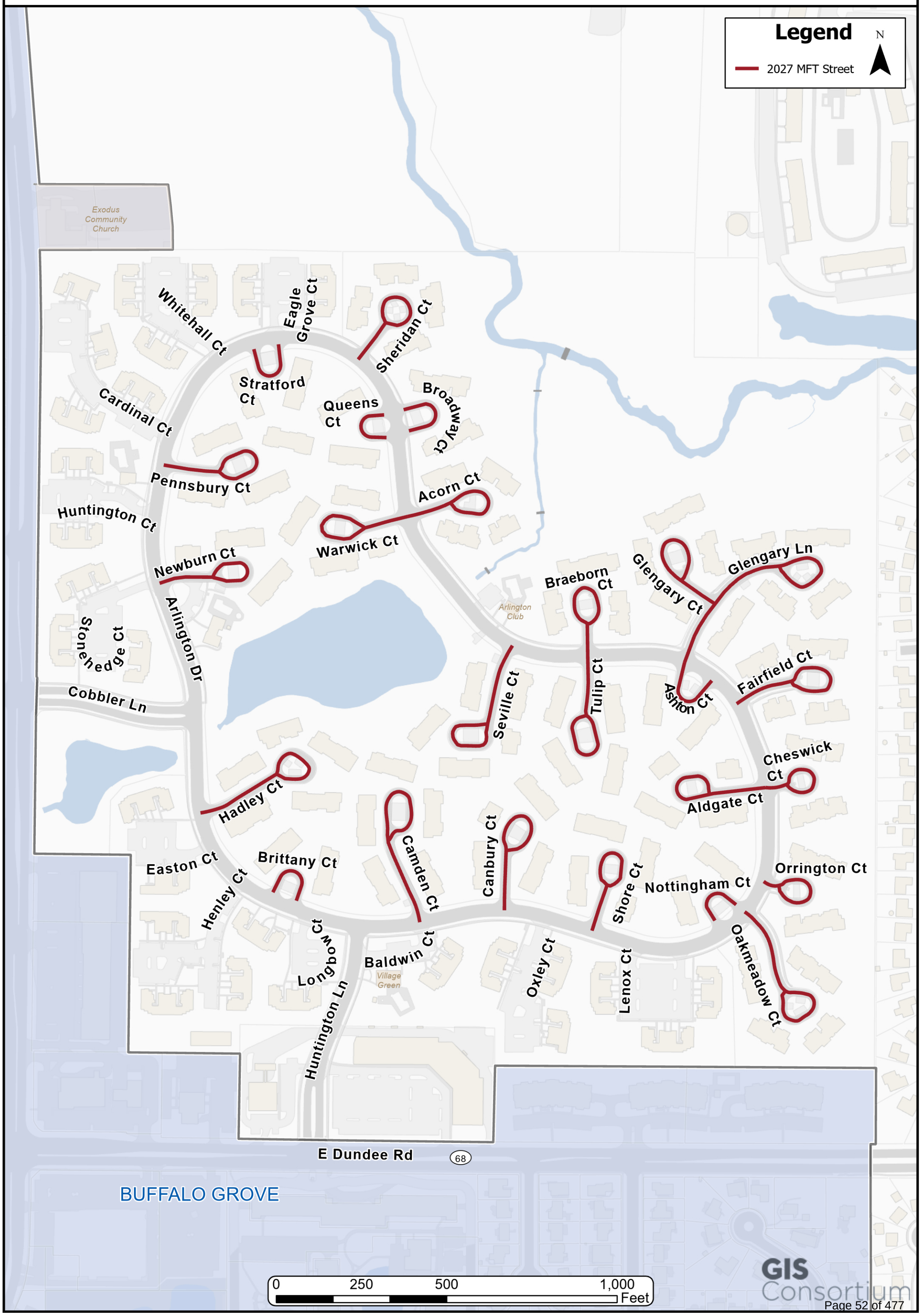
Printed: 7/8/2026

2027 MFT Street List



X:\GISC\Community\Wheeling\Project\20090806_StreetMap\Streets Map

Printed: 7/8/2026

2027 MFT Street List



X:\GISC\Community\Wheeling\Project\20090806_StreetMap\Streets Map

Printed: 7/8/2026

MEMORANDUM

DATE:	August 3, 2026
FROM:	Daniel Kaup, Deputy Village Manager/Public Works Director
SUBJECT:	Resolution Approving Four Utility Easement Agreements between the Village of Wheeling and Waste Management of Illinois Inc.
DOLLAR AMOUNT:	N/A
BUDGETED:	Yes
BUDGET SOURCE:	N/A
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Transportation & Infrastructure

EXECUTIVE SUMMARY

The attached resolution approves four Utility Easement Agreements with Waste Management in order for Village of Wheeling Public Works staff to access Village infrastructure under Sumac Road for maintenance purposes.

MEMO

Background:

The Village of Wheeling annexed Sumac Road from Cook County in 2003. At that time, there were public utilities already installed under Sumac Road, including sanitary sewer main and watermain. When the Village annexed this road, the roadway remained privately owned by multiple landowners along its alignment. Easement agreements are required to allow for the Public Works Department to access and maintain this infrastructure properly.

Discussion:

The Village is working with property owners on Sumac Road to approve landowner agreements and easement grants. These agreements will allow the Village of Wheeling access to the watermain and sanitary sewer main that exist under Sumac Road, which is currently privately owned by these property owners. These easement rights and assurances are set forth in the Easement Agreements which are attached to the Resolution. The Village has previously executed one easement agreement, and this resolution would execute four additional agreements with Waste Management. Staff are currently working with the remaining three property owners and will bring those landowner agreements forward for approval when ready. The four properties for which easement agreements are being approved as part of this resolution are noted below:

1. 230 Sumac Road, PIN 03-13-102-053 (Waste Management)
2. 260 Sumac Road, PIN 03-13-102-026 (Waste Management)
3. 350 Sumac Road, PIN 03-13-102-027 (Waste Management)
4. 360 Sumac Road, PIN 03-13-102-040 (Waste Management)

Budget:

N/A

RESOLUTION NO. 26-_____

RESOLUTION APPROVING UTILITY EASEMENT AGREEMENTS BETWEEN THE VILLAGE OF WHEELING AND WASTE MANAGEMENT OF ILLINOIS, INC.

WHEREAS, the Village of Wheeling ("Village"), Cook and Lake Counties, Illinois, is a home rule unit under subsection (a) of Section 6 of Article VII of the Illinois Constitution of 1970; and

WHEREAS, as provided in said Section, a home rule unit may exercise any power and perform any function pertaining to its government and affairs for the protection of the public health, safety, morals and welfare; and

WHEREAS, the Village Board finds that it is necessary to enter into an Easement Agreement attached hereto as Exhibit A for the purposes of the installation of water, storm, sanitary and drainage facilities.

NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COOK AND LAKE COUNTIES, ILLINOIS, in the exercise of its home rule powers, as follows:

SECTION 1: The Easement Agreements between the Village and Waste Management of Illinois, Inc. for the purposes of the installation of water, storm, sanitary, and drainage facilities attached hereto as EXHIBIT A are hereby approved.

SECTION 2: The Village President and Village Clerk are hereby authorized to execute, attest and seal the Easement Agreements in the form attached to this Resolution.

SECTION 3: This Resolution shall be in full force and effect upon its passage and approval in the manner provided by law.

Trustee _____ moved, second by Trustee _____, that Resolution No. 26- _____ be adopted.

President Horcher _____

Trustee Krueger _____ Trustee Ruffatto _____

Trustee Lang _____ Trustee Vito _____

Trustee Papantos _____ Trustee Vogel _____

ADOPTED this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

ATTEST:

_____
Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

EXHIBIT A

UTILITY EASEMENT AGREEMENTS

THIS INSTRUMENT WAS PREPARED BY:

Village of Wheeling

AFTER RECORDING RETURN TO:

Kyle Goetzelmann
Village of Wheeling
2 Community Boulevard
Wheeling, IL 60090

[The above space for Recorder's Office]

EASEMENT AGREEMENT

THIS EASEMENT AGREEMENT (the "**Agreement**") is made as of the_____day of_____, 2026, by and between WASTE MANAGEMENT OF ILLINOIS, INC. (the **"Grantor"**) and the **VILLAGE OF WHEELING, AN ILLINOIS MUNICIPAL CORPORATION**, whose address is 2 Community Boulevard, Wheeling, IL 60090 (sometimes referred to herein as the **"Village"** or **"Grantee"**). The Grantor and the Grantee collectively referred to herein as the **"Parties"** and singularly as **"Party"**.

Grantor is the property owner of land legally described in **Exhibit A**, attached hereto and made a part hereof (collectively, the **"Grantor's Property"**).

FOR AND IN CONSIDERATION OF the sum of TEN AND 00/100THS DOLLARS ($10.00) paid by the Grantee to Grantor, the receipt and sufficiency of which is hereby acknowledged, Grantor hereby grants unto the Grantee, its successors and assigns, the following easement:

WATER/STORM/SANITARY AND DRAINAGE EASEMENT

A perpetual and non-exclusive easement for underground watermains, storm sewers, sanitary sewers and drainage facilities and related appurtenances (the **"Facilities"**) is hereby granted to the Village of Wheeling and its respective successors and assigns, for the installation, maintenance, relocation, renewal and removal of Facilities, for the purpose of serving the Grantor's Property as well as other property, whether or not contiguous thereto (sometimes referred to herein as the **"Water/Storm/Sanitary and Drainage Easement"** or the "**Easement**") in, over, under, across, along and upon that portion of Grantor's Property described in **Exhibit B** (the "**Easement Area**"), together with the right to cut, trim or remove trees, bushes, roots and saplings and to clear obstructions from the surface and subsurface of the Easement Area as may be reasonably required incident to the rights herein given and the right of reasonable ingress and egress over Grantor's Property, including the Easement Area, in such areas approved by Grantor. At all times, access to the Grantor's Property shall be coordinated with the Grantor at least seventy-two (72) hours in advance. In the event of emergency, Grantee shall be allowed immediate access but shall provide notice to Grantor promptly after such access has

occurred. Above ground Facilities within the Easement Area are subject to Grantor's approval prior to installation, said approval may be withheld at Grantor's sole discretion.

No permanent buildings, structures or obstructions shall be placed in, upon or over the Easement Area without the prior written consent of the Village. Notwithstanding the foregoing, Grantor hereby reserves and retains all other property rights in and to the Easement Area including without limitation, the rights to: (i) use the Easement Area for any purpose whatsoever, so long as such use does not materially and unreasonably interfere with Grantee's rights hereunder, (ii) locate electric, gas and water lines and other utilities in the Easement Area, so long as such line or utility does not materially and unreasonably interfere with Grantee's rights hereunder; and, (iii) place surfacing materials over and across the Easement Area and construct or locate utilities, drainage ditches, roadways and/or driveways across the Easement Area to the extent such use does not interfere with Grantee's Facilities and, is in compliance with applicable federal, state and local laws, rules and/or regulations.

Grantor reserves and retains the right, at Grantor's sole discretion and upon giving at least ninety (90) days prior notice thereof to Grantee, to relocate any one or all of the Easement Area (and all related Grantee Facilities therein) at Grantor's sole cost and expense provided said relocation is accomplished in such a manner as to not materially and unreasonably interfere with Grantee's rights hereunder the Grantee's operations on the Grantee Property and Grantor obtains all approvals therefor. If such relocation is to a place outside of the currently designated Easement Area, Grantee shall execute and deliver to Grantor, promptly upon request, an amendment to this Agreement setting forth the revised Easement Area.

The easements granted above shall survive the vacation by proper authority expressly mentioned in the ordinance of vacation.

TO HAVE AND TO HOLD the above Easements and Easement Parcels and the rights and use thereof as follows:

1. The Easements herein granted shall run with the land and the covenants, agreements, terms, conditions, obligations, rights and interests herein contained or provided shall be likewise binding upon and shall inure to the benefit of the Parties hereto, their respective heirs, executors, successors, grantees, lessees and assigns.

2. The Village, at its cost and expense, shall record this Agreement in the Office of the Recorder of Deeds of Cook County.

3. This Agreement shall be governed, interpreted, construed and enforced in accordance with the laws of the State of Illinois.

4. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

5. [Reserved]

6. The Grantor represents and warrants to the Village that Grantor has full right and authority to enter into this Agreement and that Grantor does not need any additional authority or consent of any other entity or party to obligate and bind Grantor to the terms, provisions and covenants contained in this Agreement.

7. Pursuant to Section 19.12.060 B3 of the Wheeling Municipal Code, the grantee has been advised that if it is not possible or practical to maintain the existing landscaping within and immediately adjacent to the easement area, the elimination of said landscaping is hereby approved as an Administrative Change through the execution and recording of this easement document.

8. Grantee, at Grantee's sole cost and expense, shall cause the surface of the Easement Area to be restored to substantially the same condition as existed prior to Grantee's exercise of any rights pursuant to the terms of this Agreement within thirty days following conclusion of operations on Grantor's Property (**"Restoration"**). The Easement Area shall be left in as clean, smooth and level condition as practicable with no areas of ponding and/or water accumulation. Grantee shall notify Grantor in writing when ninety percent (90%) of the Restoration is completed at which time the Parties shall inspect the Easement Area, and any portion of the Grantor's Property affected by the Grantee's exercise of its rights under the terms of this Agreement, and the Parties shall create a punch-list of Restoration work to be completed. The punch-list and completed Restoration shall meet the approval of Grantor, approval not to be unreasonably withheld, conditioned, or delayed.

9. Grantee shall have the sole responsibility and obligation to obtain and pay for all required permits and approvals that apply to Grantee's intended use or operations on the Easement Area. All costs and expenses incurred in the installation, construction, maintenance, repair and replacement of the Facilities described herein shall be borne solely by Grantee. Grantee shall at all times, at Grantee's sole cost and expense, keep, maintain, repair and restore the Facilities in good and operating condition and in accordance with applicable utility operation and maintenance standards. Grantee shall perform all work, activities and operations on or about Grantor's Property in a good and workmanlike manner, pursuant to sound engineering and construction principles, and in compliance with all laws, rules and regulations applicable thereto. Grantee shall promptly pay and discharge all costs, expenses, damages and other liabilities related to the work performed by Grantee pursuant to this Agreement and shall keep Grantor's Property free from any and all liens arising out of or related thereto. If any such liens or encumbrances are filed against Grantor's Property, then Grantee, after becoming aware of such lien, shall promptly either (a) pay the amount thereof and cause the same to be released of record, or (b) diligently contest such lien or encumbrance and deliver to Grantor bond or other security reasonably satisfactory to Grantor.

10. Grantee shall indemnify, defend, and hold Grantor, its successors and assigns, transferees, employees, agents, lessees, contractors, subcontractors, as well as trustees, beneficiaries, relatives, partners, officers, directors and related or affiliated entities harmless from any and all liability, liens, demands, judgments, suits, attorneys' fees, costs and claims of any kind or character arising out of, in connection with, or relating to Grantee's operations, and/or the operations of its employees, agents, contractors and subcontractors, on Grantor's Property including, but not limited to, claims for injury to or death of any persons, damage, loss or destruction of any property, real or personal, and/or any breach of this Agreement by the indemnifying party. Grantee further covenants and agrees to defend any suits brought against Grantor on any claims, and to pay any judgment against Grantor resulting from any suit or suits arising from Grantee's operations under the terms of this Agreement. It is the intention of Grantee and Grantor that Grantee shall not be liable to Grantor in respect of (and the foregoing indemnity shall not cover) any claim to the extent the same resulted from the gross negligence or willful misconduct of Grantor. This provision shall survive the termination of this Agreement

11. Grantee shall purchase and maintain all insurance required by Applicable Law and, the following minimum insurance, issued by a company licensed to do business in Illinois and shall underwrite all policies required by this provision: (a) Broad form Commercial General Liability insurance policy with a minimum policy limit of $2,000,000 per occurrence, $2,000,000 in the aggregate including construction/excavation and collapse hazard, broad form property damage, independent contractors and personal injury, death or property damage resulting from each occurrence; (b.) Automobile Liability insurance for each automobile owned or leased by Grantee, with a $1,000,000 per occurrence policy limit; and (c) Workers' Compensation/Employer's Liability with statutory coverage with a $1,000,000/accident, $1,000,000/Disease-Policy, $1,000,000/Disease-per employee. The insurance policies in this Section 11 shall be written to protect Grantor and shall provide for thirty (30) days written notification to Grantor prior to its cancellation for any reason including non-payment of premiums. Grantee shall cause Certificates of Insurance evidencing the above coverage to be provided promptly upon request of Grantor. The insurance policies required under this Section 11 shall cover the Grantor and shall reflect that Grantee and its insurers have waived any right of subrogation against Grantor and its insurers. Grantee shall further ensure that this Agreement is included as an "insured contract" with respect to each of its commercial general liability and products/completed operations insurance policies, so that coverage is available under each of those policies for, inter alia, amounts that Grantee must pay as a result of the indemnification obligations set forth herein. The Commercial General Liability and Automobile Liability policies required in this Section shall include the following endorsement: "The insurance afforded to the additional insured is primary insurance. If the additional insured has other insurance which is applicable to the loss on a contributing, excess or contingent basis, the amount of this insurance company's liability under this policy shall not be reduced by the existence of such other insurance. Any insurance carried by the additional insured shall be excess and non-contributing with the insurance provided by the Grantee." Additionally, Grantor may request evidence of commercially reasonable insurance from any contractor, if any, performing work at the direction of the Grantee. This Section 9 shall survive the termination of the Agreement.

12. **Grantor makes no warranty of title and Grantee accepts the property that is the subject of this Agreement** "AS IS, WHERE IS". Grantee agrees that it is accepting the Easement described herein subject to all valid and existing licenses, leases, grants, exceptions, encumbrances, title defects, matters of record, reservations and conditions affecting Grantor's Property and/or affecting access thereto.

13. Grantee may not assign this Agreement without the prior written consent of Grantor.

IN WITNESS WHEREOF, the Parties have signed this Agreement as of the day, month and year first above written.

GRANTOR:

BY:_____
ITS:_____

By: JAMES A. WILSON
Vice President
_____
Name:_____
Title:_____

GRANTEE:
VILLAGE OF WHEELING,
AN ILLINOIS MUNICIPAL CORPORATION

By:_____
Name: Patrick Horcher
Title: Village President

ATTEST:

By:_____
Name: Kathryn M Brady
Title: Village Clerk

[INSERT VILLAGE SEAL ABOVE]

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY, that _____ _____ and JAMES A. WILSON _____, is personally known to me be Vice President _____

Given under my hand and official seal, this 15th day of JULY, 2026.

Vidya Shirish Darshane
Notary Public

OFFICIAL SEAL
VIDYA SHIRISH DARSHANE
Notary Public, State of Illinois
Commission No. 827557
My Commission Expires October 21, 2027

My Commission Expires: OCTOBER 21, 2027

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that the above-named Patrick Horcher and Kathryn M Brady, as the **Village President** and **Village Clerk** respectively of the **VILLAGE OF WHEELING, A MUNICIPAL CORPORATION,** (the **"Village"**) personally known to be the same persons whose names are subscribed to the foregoing instrument, and that they appeared before me this day in person and severally acknowledged that as such **Village President** and **Village Clerk**, they signed and delivered the said instrument as the **Village President** and **Village Clerk** pursuant to authority given by the **Village Board of Trustees**, and as their free and voluntary act, and as the free and voluntary act and deed of the **Village**, for the uses and purposes therein set forth, and that the **Village Clerk**, as custodian of the corporate seal of the **Village**, has caused the seal to be affixed thereto.

GIVEN under my hand and official seal, this_____day of_____, 2026.

_____ _____
Notary Public Commission Expiration

Date: 07/01/2025

Exhibit A

A.L.T.A. COMMITMENT FORM
-Schedule A Continued-

THE WEST 72.66 FEET OF THE SOUTH 367.72 FEET OF THE FOLLOWING DESCRIBED PROPERTY; THAT PART OF THE SOUTH 1320.0 FEET OF THE NORTH HALF 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 HALF OF SECTION 13 AND THE CENTER LINE OF MILWAUKEE AVENUE; THENCE WEST ALONG SAID SOUTH LINE, 831.35 FEET; THENCE SOUTH PERPENDICULAR TO LAST DESCRIBED LINE, 528.0 FEET; THENCE EAST PERPENDICULAR TO LAST DESCRIBED LINE, 581.35 FEET; THENCE NORTH PERPENDICULAR TO THE LAST DESCRIBED LINE, 378.0 FEET; THENCE EAST PERPENDICULAR TO LAST DESCRIBED LINE TO THE CENTER LINE OF MILWAUKEE AVENUE THENCE NORTHERLY ALONG SAID CENTER LINE TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PERMANENT TAX NUMBER(S): 03-13-102-040

ISSUED BY:
Wheatland Title Company
105 W. Veterans Parkway
Yorkville, Illinois 60560

Agent for:
Fidelity National Title Insurance Company

PART OF THE N 1/2 OF SECTION 13, TWP. 42 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDING	PERMANENT EASEMENT AREA	PIN	ADDRESS
0005PE	1.324 Ac±	0.045 Ac±	03-13-102-040	360 SUMAC RD

Exhibit B

N

GRAPHIC SCALE
FEET
SCALE: 1"= 100'

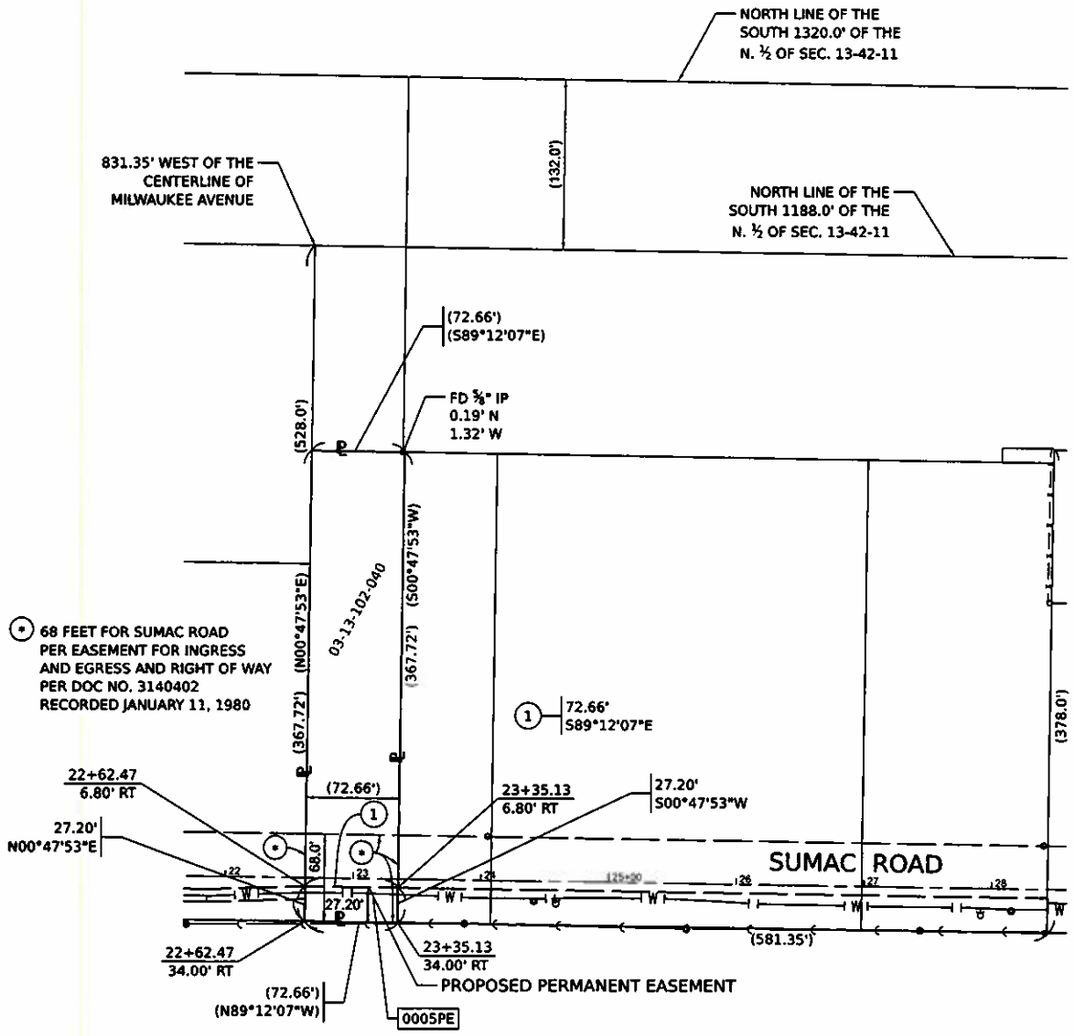
Proposed Utility Easement:

A 27.20-foot-wide public utility easement to the Village of Wheeling, Illinois, over, under and upon the following described parcel of land; The South 27.20 feet of the following Parcel;

The West 72.66 feet of the South 367.72 feet of the following described property:

That part of the South 1320.0 feet of the North Half (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 Half (1/2) of Section 13 and the center line of Milwaukee Avenue, thence West along south line, 831.35 feet; thence South perpendicular to the last described line 528.0 feet; thence East perpendicular to the last described line, 581.35 feet; thence North perpendicular to the last described line 378.0 feet; thence East perpendicular to last described line to the center line of Milwaukee Avenue; thence Northerly along said center line to the Point of Beginning, in Cook County, Illinois.

Said parcel contains 0.045 acres, more or less.



STATE OF ILLINOIS)
)SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, REJENA H. LYON, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PROPERTY SHOWN HEREON IN SECTION 13, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE VILLAGE OF WHEELING, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ___ DAY OF _____ 20 ___ A.D.

_____

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3302
LICENSE EXPIRATION DATE: NOV. 30, 2026

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FIELD WORK COMPLETED: 04/30/2025

REVISION DATE: / / REVISION MADE BY:

PROFESSIONAL LAND SURVEYOR
REJENA H. LYON
035-003302
ELGIN, IL
STATE OF ILLINOIS

LEGEND

	PROPERTY (DEED) LINE
	EXISTING CENTERLINE
	EXISTING RIGHT OF WAY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
W	WATER MAIN
	SANITARY SEWER
129.32'	MEASURED DIMENSION
(129.32')	RECORDED DIMENSION
	EXISTING BUILDING
○	IRON PIPE OR ROD FOUND
⊕	"MAG" NAIL SET
+	CUT CROSS FOUND OR SET
●	5/8" REBAR SET
◘	MANHOLE
♂	FIRE HYDRANT

Hampton, Lenzini and Renwick, Inc.
Civil Engineers · Structural Engineers
Land Surveyors · Environmental Services
1707 N. RANDALL ROAD, SUITE 100
ELGIN, ILLINOIS 60123
847.697.6700 www.hlrengineering.com
ILLINOIS PROFESSIONAL DESIGN FIRM 184.008966 / PS 184.006 CORPORATION

EASEMENT PLAT

SUMAC ROAD
PARCEL 0005PE

SHEET 1 OF 1

VILLAGE OF WHEELING
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090

THIS INSTRUMENT WAS PREPARED BY:

Village of Wheeling

AFTER RECORDING RETURN TO:

Kyle Goetzelmann
Village of Wheeling
2 Community Boulevard
Wheeling, IL 60090

[The above space for Recorder's Office]

EASEMENT AGREEMENT

THIS EASEMENT AGREEMENT (the "**Agreement**") is made as of the_____day of_____, 2026, by and between WASTE MANAGEMENT OF ILLINOIS, INC. (the "**Grantor**") and the **VILLAGE OF WHEELING, AN ILLINOIS MUNICIPAL CORPORATION**, whose address is 2 Community Boulevard, Wheeling, IL 60090 (sometimes referred to herein as the "**Village**" or "**Grantee**"). The Grantor and the Grantee collectively referred to herein as the "**Parties**" and singularly as "**Party**".

Grantor is the property owner of land legally described in **Exhibit A**, attached hereto and made a part hereof (collectively, the "**Grantor's Property**").

FOR AND IN CONSIDERATION OF the sum of TEN AND 00/100THS DOLLARS ($10.00) paid by the Grantee to Grantor, the receipt and sufficiency of which is hereby acknowledged, Grantor hereby grants unto the Grantee, its successors and assigns, the following easement:

WATER/STORM/SANITARY AND DRAINAGE EASEMENT

A perpetual and non-exclusive easement for underground watermains, storm sewers, sanitary sewers and drainage facilities and related appurtenances (the "**Facilities**") is hereby granted to the Village of Wheeling and its respective successors and assigns, for the installation, maintenance, relocation, renewal and removal of Facilities, for the purpose of serving the Grantor's Property as well as other property, whether or not contiguous thereto (sometimes referred to herein as the "**Water/Storm/Sanitary and Drainage Easement**" or the "**Easement**") in, over, under, across, along and upon that portion of Grantor's Property described in **Exhibit B** (the "**Easement Area**"), together with the right to cut, trim or remove trees, bushes, roots and saplings and to clear obstructions from the surface and subsurface of the Easement Area as may be reasonably required incident to the rights herein given and the right of reasonable ingress and egress over Grantor's Property, including the Easement Area, in such areas approved by Grantor. At all times, access to the Grantor's Property shall be coordinated with the Grantor at least seventy-two (72) hours in advance. In the event of emergency, Grantee shall be allowed immediate access but shall provide notice to Grantor promptly after such access has

occurred. Above ground Facilities within the Easement Area are subject to Grantor's approval prior to installation, said approval may be withheld at Grantor's sole discretion.

No permanent buildings, structures or obstructions shall be placed in, upon or over the Easement Area without the prior written consent of the Village. Notwithstanding the foregoing, Grantor hereby reserves and retains all other property rights in and to the Easement Area including without limitation, the rights to: (i) use the Easement Area for any purpose whatsoever, so long as such use does not materially and unreasonably interfere with Grantee's rights hereunder, (ii) locate electric, gas and water lines and other utilities in the Easement Area, so long as such line or utility does not materially and unreasonably interfere with Grantee's rights hereunder; and, (iii) place surfacing materials over and across the Easement Area and construct or locate utilities, drainage ditches, roadways and/or driveways across the Easement Area to the extent such use does not interfere with Grantee's Facilities and, is in compliance with applicable federal, state and local laws, rules and/or regulations.

Grantor reserves and retains the right, at Grantor's sole discretion and upon giving at least ninety (90) days prior notice thereof to Grantee, to relocate any one or all of the Easement Area (and all related Grantee Facilities therein) at Grantor's sole cost and expense provided said relocation is accomplished in such a manner as to not materially and unreasonably interfere with Grantee's rights hereunder the Grantee's operations on the Grantee Property and Grantor obtains all approvals therefor. If such relocation is to a place outside of the currently designated Easement Area, Grantee shall execute and deliver to Grantor, promptly upon request, an amendment to this Agreement setting forth the revised Easement Area.

The easements granted above shall survive the vacation by proper authority expressly mentioned in the ordinance of vacation.

TO HAVE AND TO HOLD the above Easements and Easement Parcels and the rights and use thereof as follows:

1. The Easements herein granted shall run with the land and the covenants, agreements, terms, conditions, obligations, rights and interests herein contained or provided shall be likewise binding upon and shall inure to the benefit of the Parties hereto, their respective heirs, executors, successors, grantees, lessees and assigns.

2. The Village, at its cost and expense, shall record this Agreement in the Office of the Recorder of Deeds of Cook County.

3. This Agreement shall be governed, interpreted, construed and enforced in accordance with the laws of the State of Illinois.

4. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

5. [Reserved]

6. The Grantor represents and warrants to the Village that Grantor has full right and authority to enter into this Agreement and that Grantor does not need any additional authority or consent of any other entity or party to obligate and bind Grantor to the terms, provisions and covenants contained in this Agreement.

7. Pursuant to Section 19.12.060 B3 of the Wheeling Municipal Code, the grantee has been advised that if it is not possible or practical to maintain the existing landscaping within and immediately adjacent to the easement area, the elimination of said landscaping is hereby approved as an Administrative Change through the execution and recording of this easement document.

8. Grantee, at Grantee's sole cost and expense, shall cause the surface of the Easement Area to be restored to substantially the same condition as existed prior to Grantee's exercise of any rights pursuant to the terms of this Agreement within thirty days following conclusion of operations on Grantor's Property ("**Restoration**"). The Easement Area shall be left in as clean, smooth and level condition as practicable with no areas of ponding and/or water accumulation. Grantee shall notify Grantor in writing when ninety percent (90%) of the Restoration is completed at which time the Parties shall inspect the Easement Area, and any portion of the Grantor's Property affected by the Grantee's exercise of its rights under the terms of this Agreement, and the Parties shall create a punch-list of Restoration work to be completed. The punch-list and completed Restoration shall meet the approval of Grantor, approval not to be unreasonably withheld, conditioned, or delayed.

9. Grantee shall have the sole responsibility and obligation to obtain and pay for all required permits and approvals that apply to Grantee's intended use or operations on the Easement Area. All costs and expenses incurred in the installation, construction, maintenance, repair and replacement of the Facilities described herein shall be borne solely by Grantee. Grantee shall at all times, at Grantee's sole cost and expense, keep, maintain, repair and restore the Facilities in good and operating condition and in accordance with applicable utility operation and maintenance standards. Grantee shall perform all work, activities and operations on or about Grantor's Property in a good and workmanlike manner, pursuant to sound engineering and construction principles, and in compliance with all laws, rules and regulations applicable thereto. Grantee shall promptly pay and discharge all costs, expenses, damages and other liabilities related to the work performed by Grantee pursuant to this Agreement and shall keep Grantor's Property free from any and all liens arising out of or related thereto. If any such liens or encumbrances are filed against Grantor's Property, then Grantee, after becoming aware of such lien, shall promptly either (a) pay the amount thereof and cause the same to be released of record, or (b) diligently contest such lien or encumbrance and deliver to Grantor bond or other security reasonably satisfactory to Grantor.

10. Grantee shall indemnify, defend, and hold Grantor, its successors and assigns, transferees, employees, agents, lessees, contractors, subcontractors, as well as trustees, beneficiaries, relatives, partners, officers, directors and related or affiliated entities harmless from any and all liability, liens, demands, judgments, suits, attorneys' fees, costs and claims of any kind or character arising out of, in connection with, or relating to Grantee's operations, and/or the operations of its employees, agents, contractors and subcontractors, on Grantor's Property including, but not limited to, claims for injury to or death of any persons, damage, loss or destruction of any property, real or personal, and/or any breach of this Agreement by the indemnifying party. Grantee further covenants and agrees to defend any suits brought against Grantor on any claims, and to pay any judgment against Grantor resulting from any suit or suits arising from Grantee's operations under the terms of this Agreement. It is the intention of Grantee and Grantor that Grantee shall not be liable to Grantor in respect of (and the foregoing indemnity shall not cover) any claim to the extent the same resulted from the gross negligence or willful misconduct of Grantor. This provision shall survive the termination of this Agreement

11. Grantee shall purchase and maintain all insurance required by Applicable Law and, the following minimum insurance, issued by a company licensed to do business in Illinois and shall underwrite all policies required by this provision: (a) Broad form Commercial General Liability insurance policy with a minimum policy limit of $2,000,000 per occurrence, $2,000,000 in the aggregate including construction/excavation and collapse hazard, broad form property damage, independent contractors and personal injury, death or property damage resulting from each occurrence; (b.) Automobile Liability insurance for each automobile owned or leased by Grantee, with a $1,000,000 per occurrence policy limit; and (c) Workers' Compensation/Employer's Liability with statutory coverage with a $1,000,000/accident, $1,000,000/Disease-Policy, $1,000,000/Disease-per employee. The insurance policies in this Section 11 shall be written to protect Grantor and shall provide for thirty (30) days written notification to Grantor prior to its cancellation for any reason including non-payment of premiums. Grantee shall cause Certificates of Insurance evidencing the above coverage to be provided promptly upon request of Grantor. The insurance policies required under this Section 11 shall cover the Grantor and shall reflect that Grantee and its insurers have waived any right of subrogation against Grantor and its insurers. Grantee shall further ensure that this Agreement is included as an "insured contract" with respect to each of its commercial general liability and products/completed operations insurance policies, so that coverage is available under each of those policies for, inter alia, amounts that Grantee must pay as a result of the indemnification obligations set forth herein. The Commercial General Liability and Automobile Liability policies required in this Section shall include the following endorsement: "The insurance afforded to the additional insured is primary insurance. If the additional insured has other insurance which is applicable to the loss on a contributing, excess or contingent basis, the amount of this insurance company's liability under this policy shall not be reduced by the existence of such other insurance. Any insurance carried by the additional insured shall be excess and non-contributing with the insurance provided by the Grantee." Additionally, Grantor may request evidence of commercially reasonable insurance from any contractor, if any, performing work at the direction of the Grantee. This Section 9 shall survive the termination of the Agreement.

12. **Grantor makes no warranty of title and Grantee accepts the property that is the subject of this Agreement** "AS IS, WHERE IS". Grantee agrees that it is accepting the Easement described herein subject to all valid and existing licenses, leases, grants, exceptions, encumbrances, title defects, matters of record, reservations and conditions affecting Grantor's Property and/or affecting access thereto.

13. Grantee may not assign this Agreement without the prior written consent of Grantor.

IN WITNESS WHEREOF, the Parties have signed this Agreement as of the day, month and year first above written.

GRANTOR:

BY:_____
ITS:_____

By: JAMES A. WILSON
Vice President
_____
Name:_____
Title:_____

GRANTEE:
VILLAGE OF WHEELING,
AN ILLINOIS MUNICIPAL CORPORATION

By:_____
Name: Patrick Horcher
Title: Village President

ATTEST:

By:_____
Name: Kathryn M Brady
Title: Village Clerk

[INSERT VILLAGE SEAL ABOVE]

STATE OF ILLINOIS)
) **SS.**
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY, that _____ and _____ JAMES A. WILSON Vice President _____, is personally known to me be

Given under my hand and official seal, this 15th day of JULY, 2026.

Vidya Shirish Darshane

Notary Public

OFFICIAL SEAL
VIDYA SHIRISH DARSHANE
Notary Public, State of Illinois
Commission No. 827557
My Commission Expires October 21, 2027

My Commission Expires: OCTOBER 21 2027

STATE OF ILLINOIS)
) ss.
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that the above-named Patrick Horcher and Kathryn M Brady, as the **Village President** and **Village Clerk** respectively of the **VILLAGE OF WHEELING, A MUNICIPAL CORPORATION,** (the "**Village**") personally known to be the same persons whose names are subscribed to the foregoing instrument, and that they appeared before me this day in person and severally acknowledged that as such **Village President** and **Village Clerk**, they signed and delivered the said instrument as the **Village President** and **Village Clerk** pursuant to authority given by the **Village Board of Trustees**, and as their free and voluntary act, and as the free and voluntary act and deed of the **Village**, for the uses and purposes therein set forth, and that the **Village Clerk**, as custodian of the corporate seal of the **Village**, has caused the seal to be affixed thereto.

GIVEN under my hand and official seal, this_____day of_____, 2026.

_____ _____
Notary Public Commission Expiration

Date: 07/28/2025

Exhibit A

A.L.T.A. COMMITMENT FORM
-Schedule A Continued-

PARCEL 1:
THE EAST 189.39 FEET OF THE SOUTH 298.0 FEET OF THE FOLLOWING DESCRIBED PROPERTY: THAT PART OF THE NORTH 660 FEET OF THE SOUTH 1320.0 FEET OF THE NORTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTH LINE OF THE SOUTH 1188.0 FEET OF SAID NORTH HALF OF SAID SECTION 13, SAID POINT BEING 1658.01 FEET WEST OF THE CENTER LINE OF MILWAUKEE AVENUE AS MEASURED ALONG THE NORTH LINE OF SAID SOUTH 1188.0 FEET THEREOF; THENCE SOUTH PERPENDICULAR TO SAID NORTH LINE, 528.00 FEET TO THE SOUTH LINE OF THE NORTH 660.0 FEET TO THE NORTH HALF OF SAID SECTION 13; THENCE WEST ALONG SAID LINE, 435.81 FEET; THENCE NORTH PERPENDICULAR TO SAID SOUTH LINE, 660.0 FEET TO THE NORTH LINE OF THE SOUTH 1320.0 FEET OF SAID NORTH HALF OF SAID SECTION 13; THENCE EAST ALONG SAID NORTH LINE 131.27 FEET TO A POINT THAT IS 1361.0 FEET EAST OF THE WEST LINE OF THE NORTH HALF OF SAID SECTION 13, AS MEASURED ALONG THE NORTH LINE; THENCE SOUTH ALONG A LINE THAT IS PARALLEL WITH THE WEST LINE OF SAID NORTH HALF OF SECTION 13, A DISTANCE OF 132.0 FEET TO THE NORTH LINE OF THE SOUTH 1188.0 FEET OF SAID SECTION 13; THENCE EAST ALONG SAID NORTH LINE, 304.54 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PERMANENT TAX NUMBER(S): 03-13-102-053

ISSUED BY:
Wheatland Title Company
105 W. Veterans Parkway
Yorkville, Illinois 60560

Agent for:
Fidelity National Title Insurance Company

PART OF THE N 1/2 OF SECTION 13, TWP. 42 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDING	PERMANENT EASEMENT AREA	PIN	ADDRESS
0001PE	7.255 Ac±	0.138 Ac±	03-13-102-053	230 SUMAC RD

Exhibit B

N

GRAPHIC SCALE FEET

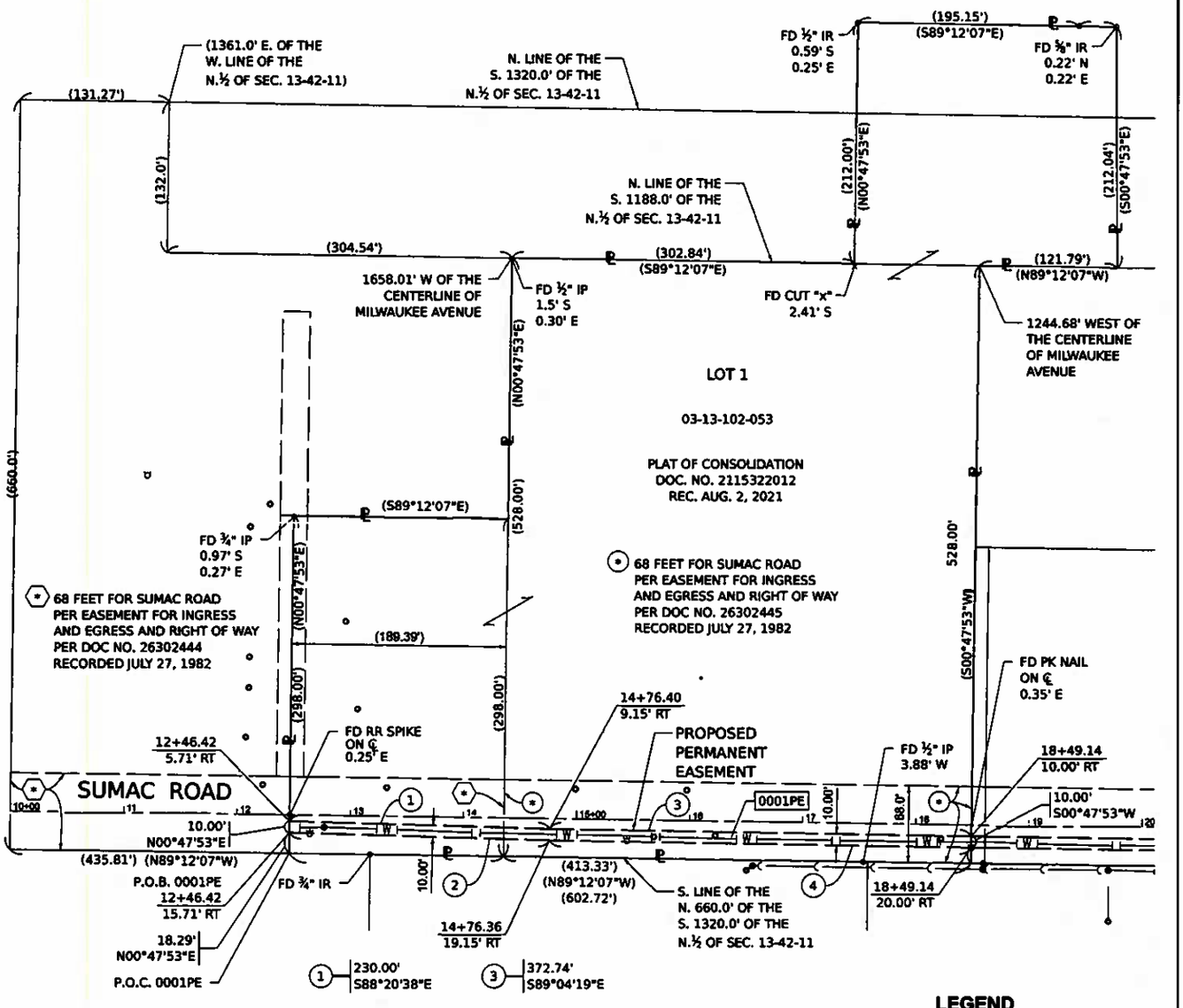
SCALE: 1"= 100'

Proposed Utility Easement:

A 10-foot-wide public utility easement to the Village of Wheeling, Illinois, over, under and upon the following described parcel of land; that part of Lot 1 of the Plat of Consolidation Recorded August 2, 2021, as Document 2115322012, Cook County, Illinois, bearings and distances based on Illinois State Plane Coordinate System, East Zone, NAD83 (2011 Adjustment), described as follows:

Commencing at the southwest corner of said Lot 1; thence along the west line thereof, North 00 degrees 47 minutes 53 seconds East, 18.29 feet to the Point of Beginning; thence continuing along the west line thereof, 10.00 feet; thence South 88 degrees 20 minutes 38 seconds East, 230.00 feet; thence South 89 degrees 04 minutes 19 seconds East, 372.74 feet to the east line of said Lot 1; thence along the east line thereof, South 00 degrees 47 minutes 53 seconds West, 10.00 feet; thence North 89 degrees 04 minutes 19 seconds West, 372.78 feet; thence North 88 degrees 20 minutes 38 seconds West, 229.97 feet to the Point of Beginning.

Said parcel contains 0.138 acres, more or less.



LEGEND

- PROPERTY (DEED) LINE
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- WATER MAIN
- SANITARY SEWER
- 129.32' MEASURED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- MANHOLE
- "MAG" NAIL SET
- 5/8" REBAR SET
- FIRE HYDRANT

STATE OF ILLINOIS)
)SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, REJENA H. LYON, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PROPERTY SHOWN HEREON IN SECTION 13, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE VILLAGE OF WHEELING, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ___ DAY OF _____ 20 ___ A.D.

_____

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3302
LICENSE EXPIRATION DATE: NOV. 30, 2026

PROFESSIONAL LAND SURVEYOR
REJENA H. LYON
035-003302
ELGIN, IL
STATE OF ILLINOIS

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FIELD WORK COMPLETED: 04/30/2025

REVISION DATE: / / REVISION MADE BY:

Hampton, Lenzini and Renwick, Inc.
Civil Engineers · Structural Engineers
Land Surveyors · Environmental Services
1707 N. RANDALL ROAD, SUITE 100
ELGIN, ILLINOIS 60123
847.697.6700 www.hlrengineering.com
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EASEMENT PLAT

SUMAC ROAD
PARCEL 0001PE

SHEET 1 OF 8

VILLAGE OF WHEELING
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090

THIS INSTRUMENT WAS PREPARED BY:

Village of Wheeling

AFTER RECORDING RETURN TO:

Kyle Goetzelmann
Village of Wheeling
2 Community Boulevard
Wheeling, IL 60090

[The above space for Recorder's Office]

EASEMENT AGREEMENT

THIS EASEMENT AGREEMENT (the "**Agreement**") is made as of the_____day of_____, 2026, by and between WASTE MANAGEMENT OF ILLINOIS, INC. (the **"Grantor"**) and the **VILLAGE OF WHEELING, AN ILLINOIS MUNICIPAL CORPORATION**, whose address is 2 Community Boulevard, Wheeling, IL 60090 (sometimes referred to herein as the **"Village"** or **"Grantee"**). The Grantor and the Grantee collectively referred to herein as the **"Parties"** and singularly as **"Party"**.

Grantor is the property owner of land legally described in **Exhibit A**, attached hereto and made a part hereof (collectively, the **"Grantor's Property"**).

FOR AND IN CONSIDERATION OF the sum of TEN AND 00/100THS DOLLARS ($10.00) paid by the Grantee to Grantor, the receipt and sufficiency of which is hereby acknowledged, Grantor hereby grants unto the Grantee, its successors and assigns, the following easement:

WATER/STORM/SANITARY AND DRAINAGE EASEMENT

A perpetual and non-exclusive easement for underground watermains, storm sewers, sanitary sewers and drainage facilities and related appurtenances (the **"Facilities"**) is hereby granted to the Village of Wheeling and its respective successors and assigns, for the installation, maintenance, relocation, renewal and removal of Facilities, for the purpose of serving the Grantor's Property as well as other property, whether or not contiguous thereto (sometimes referred to herein as the **"Water/Storm/Sanitary and Drainage Easement"** or the "**Easement**") in, over, under, across, along and upon that portion of Grantor's Property described in **Exhibit B** (the "**Easement Area**"), together with the right to cut, trim or remove trees, bushes, roots and saplings and to clear obstructions from the surface and subsurface of the Easement Area as may be reasonably required incident to the rights herein given and the right of reasonable ingress and egress over Grantor's Property, including the Easement Area, in such areas approved by Grantor. At all times, access to the Grantor's Property shall be coordinated with the Grantor at least seventy-two (72) hours in advance. In the event of emergency, Grantee shall be allowed immediate access but shall provide notice to Grantor promptly after such access has

occurred. Above ground Facilities within the Easement Area are subject to Grantor's approval prior to installation, said approval may be withheld at Grantor's sole discretion.

No permanent buildings, structures or obstructions shall be placed in, upon or over the Easement Area without the prior written consent of the Village. Notwithstanding the foregoing, Grantor hereby reserves and retains all other property rights in and to the Easement Area including without limitation, the rights to: (i) use the Easement Area for any purpose whatsoever, so long as such use does not materially and unreasonably interfere with Grantee's rights hereunder, (ii) locate electric, gas and water lines and other utilities in the Easement Area, so long as such line or utility does not materially and unreasonably interfere with Grantee's rights hereunder; and, (iii) place surfacing materials over and across the Easement Area and construct or locate utilities, drainage ditches, roadways and/or driveways across the Easement Area to the extent such use does not interfere with Grantee's Facilities and, is in compliance with applicable federal, state and local laws, rules and/or regulations.

Grantor reserves and retains the right, at Grantor's sole discretion and upon giving at least ninety (90) days prior notice thereof to Grantee, to relocate any one or all of the Easement Area (and all related Grantee Facilities therein) at Grantor's sole cost and expense provided said relocation is accomplished in such a manner as to not materially and unreasonably interfere with Grantee's rights hereunder the Grantee's operations on the Grantee Property and Grantor obtains all approvals therefor. If such relocation is to a place outside of the currently designated Easement Area, Grantee shall execute and deliver to Grantor, promptly upon request, an amendment to this Agreement setting forth the revised Easement Area.

The easements granted above shall survive the vacation by proper authority expressly mentioned in the ordinance of vacation.

TO HAVE AND TO HOLD the above Easements and Easement Parcels and the rights and use thereof as follows:

1. The Easements herein granted shall run with the land and the covenants, agreements, terms, conditions, obligations, rights and interests herein contained or provided shall be likewise binding upon and shall inure to the benefit of the Parties hereto, their respective heirs, executors, successors, grantees, lessees and assigns.

2. The Village, at its cost and expense, shall record this Agreement in the Office of the Recorder of Deeds of Cook County.

3. This Agreement shall be governed, interpreted, construed and enforced in accordance with the laws of the State of Illinois.

4. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

5. [Reserved]

6. The Grantor represents and warrants to the Village that Grantor has full right and authority to enter into this Agreement and that Grantor does not need any additional authority or consent of any other entity or party to obligate and bind Grantor to the terms, provisions and covenants contained in this Agreement.

7. Pursuant to Section 19.12.060 B3 of the Wheeling Municipal Code, the grantee has been advised that if it is not possible or practical to maintain the existing landscaping within and immediately adjacent to the easement area, the elimination of said landscaping is hereby approved as an Administrative Change through the execution and recording of this easement document.

8. Grantee, at Grantee's sole cost and expense, shall cause the surface of the Easement Area to be restored to substantially the same condition as existed prior to Grantee's exercise of any rights pursuant to the terms of this Agreement within thirty days following conclusion of operations on Grantor's Property ("**Restoration**"). The Easement Area shall be left in as clean, smooth and level condition as practicable with no areas of ponding and/or water accumulation. Grantee shall notify Grantor in writing when ninety percent (90%) of the Restoration is completed at which time the Parties shall inspect the Easement Area, and any portion of the Grantor's Property affected by the Grantee's exercise of its rights under the terms of this Agreement, and the Parties shall create a punch-list of Restoration work to be completed. The punch-list and completed Restoration shall meet the approval of Grantor, approval not to be unreasonably withheld, conditioned, or delayed.

9. Grantee shall have the sole responsibility and obligation to obtain and pay for all required permits and approvals that apply to Grantee's intended use or operations on the Easement Area. All costs and expenses incurred in the installation, construction, maintenance, repair and replacement of the Facilities described herein shall be borne solely by Grantee. Grantee shall at all times, at Grantee's sole cost and expense, keep, maintain, repair and restore the Facilities in good and operating condition and in accordance with applicable utility operation and maintenance standards. Grantee shall perform all work, activities and operations on or about Grantor's Property in a good and workmanlike manner, pursuant to sound engineering and construction principles, and in compliance with all laws, rules and regulations applicable thereto. Grantee shall promptly pay and discharge all costs, expenses, damages and other liabilities related to the work performed by Grantee pursuant to this Agreement and shall keep Grantor's Property free from any and all liens arising out of or related thereto. If any such liens or encumbrances are filed against Grantor's Property, then Grantee, after becoming aware of such lien, shall promptly either (a) pay the amount thereof and cause the same to be released of record, or (b) diligently contest such lien or encumbrance and deliver to Grantor bond or other security reasonably satisfactory to Grantor.

10. Grantee shall indemnify, defend, and hold Grantor, its successors and assigns, transferees, employees, agents, lessees, contractors, subcontractors, as well as trustees, beneficiaries, relatives, partners, officers, directors and related or affiliated entities harmless from any and all liability, liens, demands, judgments, suits, attorneys' fees, costs and claims of any kind or character arising out of, in connection with, or relating to Grantee's operations, and/or the operations of its employees, agents, contractors and subcontractors, on Grantor's Property including, but not limited to, claims for injury to or death of any persons, damage, loss or destruction of any property, real or personal, and/or any breach of this Agreement by the indemnifying party. Grantee further covenants and agrees to defend any suits brought against Grantor on any claims, and to pay any judgment against Grantor resulting from any suit or suits arising from Grantee's operations under the terms of this Agreement. It is the intention of Grantee and Grantor that Grantee shall not be liable to Grantor in respect of (and the foregoing indemnity shall not cover) any claim to the extent the same resulted from the gross negligence or willful misconduct of Grantor. This provision shall survive the termination of this Agreement

11. Grantee shall purchase and maintain all insurance required by Applicable Law and, the following minimum insurance, issued by a company licensed to do business in Illinois and shall underwrite all policies required by this provision: (a) Broad form Commercial General Liability insurance policy with a minimum policy limit of $2,000,000 per occurrence, $2,000,000 in the aggregate including construction/excavation and collapse hazard, broad form property damage, independent contractors and personal injury, death or property damage resulting from each occurrence; (b.) Automobile Liability insurance for each automobile owned or leased by Grantee, with a $1,000,000 per occurrence policy limit; and (c) Workers' Compensation/Employer's Liability with statutory coverage with a $1,000,000/accident, $1,000,000/Disease-Policy, $1,000,000/Disease-per employee. The insurance policies in this Section 11 shall be written to protect Grantor and shall provide for thirty (30) days written notification to Grantor prior to its cancellation for any reason including non-payment of premiums. Grantee shall cause Certificates of Insurance evidencing the above coverage to be provided promptly upon request of Grantor. The insurance policies required under this Section 11 shall cover the Grantor and shall reflect that Grantee and its insurers have waived any right of subrogation against Grantor and its insurers. Grantee shall further ensure that this Agreement is included as an "insured contract" with respect to each of its commercial general liability and products/completed operations insurance policies, so that coverage is available under each of those policies for, inter alia, amounts that Grantee must pay as a result of the indemnification obligations set forth herein. The Commercial General Liability and Automobile Liability policies required in this Section shall include the following endorsement: "The insurance afforded to the additional insured is primary insurance. If the additional insured has other insurance which is applicable to the loss on a contributing, excess or contingent basis, the amount of this insurance company's liability under this policy shall not be reduced by the existence of such other insurance. Any insurance carried by the additional insured shall be excess and non-contributing with the insurance provided by the Grantee." Additionally, Grantor may request evidence of commercially reasonable insurance from any contractor, if any, performing work at the direction of the Grantee. This Section 9 shall survive the termination of the Agreement.

12. **Grantor makes no warranty of title and Grantee accepts the property that is the subject of this Agreement** "AS IS, WHERE IS". Grantee agrees that it is accepting the Easement described herein subject to all valid and existing licenses, leases, grants, exceptions, encumbrances, title defects, matters of record, reservations and conditions affecting Grantor's Property and/or affecting access thereto.

13. Grantee may not assign this Agreement without the prior written consent of Grantor.

IN WITNESS WHEREOF, the Parties have signed this Agreement as of the day, month and year first above written.

GRANTOR:

BY: _____
ITS: _____

By: JAMES A. WILSON
Vice President
Name: _____
Title: _____

GRANTEE:
VILLAGE OF WHEELING,
AN ILLINOIS MUNICIPAL CORPORATION

By: _____
Name: Patrick Horcher
Title: Village President

ATTEST:

By: _____
Name: Kathryn M Brady
Title: Village Clerk

[INSERT VILLAGE SEAL ABOVE]

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY, that _____ and _____, is personally known to me be JAMES A. WILSON Vice President

Given under my hand and official seal, this 15th day of JULY, 2026.

Vidya Shirish Darshane

Notary Public

OCTOBER 21, 2027

My Commission Expires:

OFFICIAL SEAL
VIDYA SHIRISH DARSHANE
Notary Public, State of Illinois
Commission No. 827557
My Commission Expires October 21, 2027

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that the above-named Patrick Horcher and Kathryn M Brady, as the **Village President** and **Village Clerk** respectively of the **VILLAGE OF WHEELING, A MUNICIPAL CORPORATION,** (the **"Village"**) personally known to be the same persons whose names are subscribed to the foregoing instrument, and that they appeared before me this day in person and severally acknowledged that as such **Village President** and **Village Clerk**, they signed and delivered the said instrument as the **Village President** and **Village Clerk** pursuant to authority given by the **Village Board of Trustees**, and as their free and voluntary act, and as the free and voluntary act and deed of the **Village**, for the uses and purposes therein set forth, and that the **Village Clerk**, as custodian of the corporate seal of the **Village**, has caused the seal to be affixed thereto.

GIVEN under my hand and official seal, this_____day of_____, 2026.

_____ _____
Notary Public Commission Expiration

Exhibit A

A.L.T.A. COMMITMENT FORM
-Schedule A Continued-

THE NORTH 249.0 FEET OF THAT PART OF THE NORTH 528.0 FEET OF THE SOUTH 1188.0 FEET OF THE NORTH HALF (1) OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTH LINE OF SAID NORTH HALF (1) OF SAID SECTION 13, SAID POINT BEING 831.35 FEET WEST OF THE CENTER LINE OF MILWAUKEE AVENUE, AS MEASURED ALONG SAID NORTH LINE; THENCE SOUTH ALONG A LINE DRAWN PERPENDICULAR TO SAID NORTH LINE, 528.0 FEET TO THE SOUTH LINE OF SAID NORTH 528.0 FEET THEREOF; THENCE WEST ALONG SAID SOUTH LINE, 413.33 FEET TO THE POINT PERPENDICULAR TO SAID SOUTH LINE, 528.0 FEET TO THE NORTH LINE OF SAID SECTION 13, THENCE EAST ALONG SAID NORTH LINE, 528.0 FEET TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS, (EXCEPTING THEREFROM THE NORTH 220.0 FEET THEREOF OF THE NORTH HALF (D) OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTH LINE OF THE SOUTH 1188.0 FEET OF SAID NORTH HALF (1) OF SAID SECTION 13, SAID POINT BEING 831.35 FEET WEST OF THE CENTER LINE OF MILWAUKEE AVENUE, AS MEASURED ALONG SAID NORTH LINE; THENCE SOUTH ALONG A LINE DRAWN PERPENDICULAR TO SAID NORTH LINE, 528.0 FEET TO THE SOUTH LINE OF SAID NORTH 528.0 FEET THEREOF; THENCE WEST ALONG SAID SOUTH LINE, 413.33 FEET; THENCE NORTH PERPENDICULAR TO SAID SOUTH LINE, 180.0 FEET TO THE NORTH LINE OF SAID SECTION 13, THENCE EAST ALONG SAID NORTH LINE, 413.33 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

EXCEPT

THAT PART OF THE NORTH 528.0 FEET OF THE SOUTH 1188.0 FEET OF THE NORTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTH LINE OF THE SOUTH 1188.0 FEET OF SAID NORTH HALF OF SECTION 13, SAID POINT BEING 1244.68 FEET WEST OF THE CENTER LINE OF MILWAUKEE AVENUE, AS MEASURED ALONG THE NORTH LINE OF THE SOUTH 1188.0 FEET OF SAID NORTH

Date: 07/29/2025

WTC File Number: HLR-2025CO-24883.0
Order: Sumac Road, Wheeling 25.0243.230
Parcel:

HALF OF SAID SECTION 13; THENCE SOUTH PERPENDICULAR TO THE NORTH LINE OF SAID SECTION 13, A DISTANCE OF 230.0 FEET TO THE POINT OF BEGINNING OF THE PROPERTY INTENDED TO BE DESCRIBED, THENCE CONTINUING SOUTH ALONG LAST DESCRIBED LINE, 298.0 FEET TO THE SOUTH LINE OF THE NORTH 528.0 FEET OF THE SOUTH 1188.0 FEET OF THE NORTH HALF OF SAID SECTION 13; THENCE EAST ALONG SAID SOUTH LINE, 12.0 FEET; THENCE NORTH PERPENDICULAR TO LAST DESCRIBED LINE, 298.0 FEET; THENCE WEST TO POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PERMANENT TAX NUMBER(S): 03-13-102-026

ISSUED BY:
Wheatland Title Company
105 W. Veterans Parkway
Yorkville, Illinois 60560

Agent for:
Fidelity National Title Insurance Company

PART OF THE N 1/2 OF SECTION 13, TWP. 42 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDING	PERMANENT EASEMENT AREA	PIN	ADDRESS
0002PE	2.440 Ac±	0.003 Ac± 120 Sq Ft	03-13-102-026	260 SUMAC RD

Exhibit B

N

GRAPHIC SCALE FEET

SCALE: 1"= 100'

Proposed Utility Easement:

A 10-foot-wide public utility easement to the Village of Wheeling, Illinois, over, under and upon the following described parcel of land; The North 10.00 feet of the South 24.00 feet of the following Parcel;

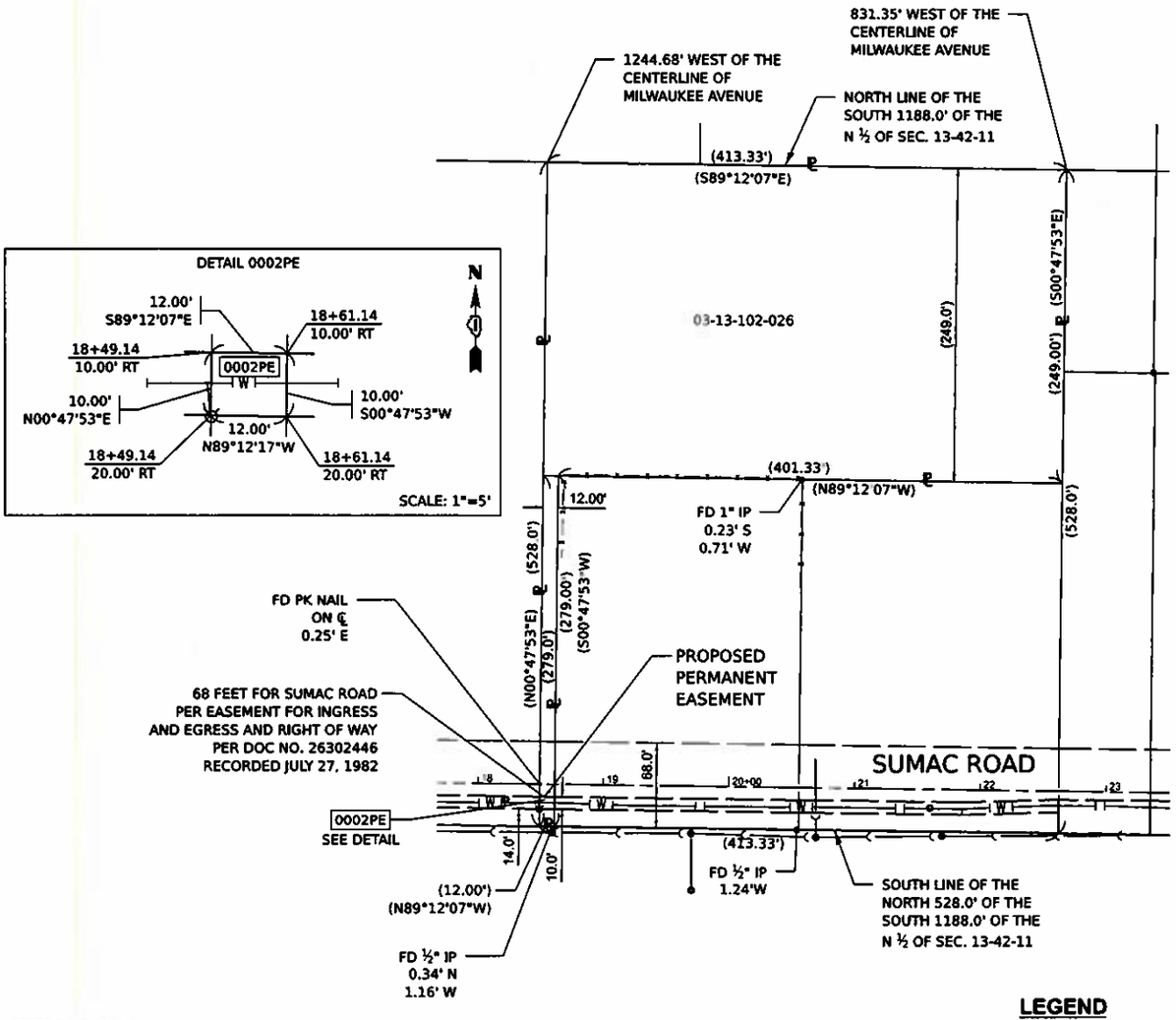
The North 249.0 feet of that part of the North 528.0 feet of the South 1188.0 feet of the North Half (1/2) of Section 13, Township 42 North, Range 11 East of the Third Principal Meridian described as follows:

Beginning at a point on the north line of the South 1188.0 feet of said North Half (1/2) of said Section 13, said point being 831.35 feet West of the center line of Milwaukee Avenue, as measured along said north line; thence South along a line drawn perpendicular to said north line, 528.0 feet to the south line of said North 528.0 feet thereof; thence West along said south line, 413.33 feet; thence North perpendicular to said south line, 528.0 feet to the north line of the South 1188.0 feet thereof; thence East along said north line, 413.33 feet to the Point of Beginning, all in Cook County, Illinois,

Together with the West 12.0 feet of the North 528.0 feet of the South 1188.0 feet (excepting therefrom the North 249.0 feet thereof) of the North Half (1/2) of Section 13, Township 42 North, Range 11, East of the Third Principal Meridian, described as follows:

Beginning at a point on the north line of the South 1188.0 feet of said North Half (1/2) of said Section 13, said point being 831.35 feet West of the center line of Milwaukee Avenue, as measured along said north line; thence South along a line drawn perpendicular to said north line 528.0 feet to the south line of said North 528.0 feet thereof; thence West along said south line; 413.33 feet; thence North perpendicular to said south line 528.0 feet to the north line of the South 1188.0 feet thereof; thence East along said north line, 413.33 feet to the Point of Beginning, in Cook County, Illinois.

Said parcel contains 0.003 acres (120 sq ft), more or less.



LEGEND

℄	PROPERTY (DEED) LINE
	EXISTING CENTERLINE
	EXISTING RIGHT OF WAY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
W	WATER MAIN
	SANITARY SEWER
129.32'	MEASURED DIMENSION
(129.32')	RECORDED DIMENSION
	EXISTING BUILDING
○	IRON PIPE OR ROD FOUND
⊕	"MAG" NAIL SET
+	CUT CROSS FOUND OR SET
●	5/8" REBAR SET
◎	MANHOLE
♉	FIRE HYDRANT

STATE OF ILLINOIS)
)SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, REJENA H. LYON, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PROPERTY SHOWN HEREON IN SECTION 13, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE VILLAGE OF WHEELING, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ___ DAY OF _____ 20 ___ A.D.

_____

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3302
LICENSE EXPIRATION DATE: NOV. 30, 2026

PROFESSIONAL LAND SURVEYOR
REJENA H. LYON
035-003302
ELGIN, IL
STATE OF ILLINOIS

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FIELD WORK COMPLETED: 04/30/2025

REVISION DATE: / / REVISION MADE BY:

Hampton, Lenzini and Renwick, Inc.
Civil Engineers · Structural Engineers
Land Surveyors · Environmental Services
1707 N. RANDALL ROAD, SUITE 100
ELGIN, ILLINOIS 60123
847.697.6700 www.hlrengineering.com
ILLINOIS PROFESSIONAL DESIGN FIRM LB / PS / SE CORPORATION

EASEMENT PLAT

SUMAC ROAD
PARCEL 0002PE

SHEET 2 OF 8

VILLAGE OF WHEELING
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090

THIS INSTRUMENT WAS PREPARED BY:

Village of Wheeling

AFTER RECORDING RETURN TO:

Kyle Goetzelmann
Village of Wheeling
2 Community Boulevard
Wheeling, IL 60090

[The above space for Recorder's Office]

EASEMENT AGREEMENT

THIS EASEMENT AGREEMENT (the "**Agreement**") is made as of the_____day of_____, 2026, by and between WASTE MANAGEMENT OF ILLINOIS, INC. (the **"Grantor"**) and the **VILLAGE OF WHEELING, AN ILLINOIS MUNICIPAL CORPORATION**, whose address is 2 Community Boulevard, Wheeling, IL 60090 (sometimes referred to herein as the **"Village"** or **"Grantee"**). The Grantor and the Grantee collectively referred to herein as the **"Parties"** and singularly as **"Party"**.

Grantor is the property owner of land legally described in **Exhibit A**, attached hereto and made a part hereof (collectively, the **"Grantor's Property"**).

FOR AND IN CONSIDERATION OF the sum of TEN AND 00/100THS DOLLARS ($10.00) paid by the Grantee to Grantor, the receipt and sufficiency of which is hereby acknowledged, Grantor hereby grants unto the Grantee, its successors and assigns, the following easement:

WATER/STORM/SANITARY AND DRAINAGE EASEMENT

A perpetual and non-exclusive easement for underground watermains, storm sewers, sanitary sewers and drainage facilities and related appurtenances (the **"Facilities"**) is hereby granted to the Village of Wheeling and its respective successors and assigns, for the installation, maintenance, relocation, renewal and removal of Facilities, for the purpose of serving the Grantor's Property as well as other property, whether or not contiguous thereto (sometimes referred to herein as the **"Water/Storm/Sanitary and Drainage Easement"** or the **"Easement"**) in, over, under, across, along and upon that portion of Grantor's Property described in **Exhibit B** (the **"Easement Area"**), together with the right to cut, trim or remove trees, bushes, roots and saplings and to clear obstructions from the surface and subsurface of the Easement Area as may be reasonably required incident to the rights herein given and the right of reasonable ingress and egress over Grantor's Property, including the Easement Area, in such areas approved by Grantor. At all times, access to the Grantor's Property shall be coordinated with the Grantor at least seventy-two (72) hours in advance. In the event of emergency, Grantee shall be allowed immediate access but shall provide notice to Grantor promptly after such access has

occurred. Above ground Facilities within the Easement Area are subject to Grantor's approval prior to installation, said approval may be withheld at Grantor's sole discretion.

No permanent buildings, structures or obstructions shall be placed in, upon or over the Easement Area without the prior written consent of the Village. Notwithstanding the foregoing, Grantor hereby reserves and retains all other property rights in and to the Easement Area including without limitation, the rights to: (i) use the Easement Area for any purpose whatsoever, so long as such use does not materially and unreasonably interfere with Grantee's rights hereunder, (ii) locate electric, gas and water lines and other utilities in the Easement Area, so long as such line or utility does not materially and unreasonably interfere with Grantee's rights hereunder; and, (iii) place surfacing materials over and across the Easement Area and construct or locate utilities, drainage ditches, roadways and/or driveways across the Easement Area to the extent such use does not interfere with Grantee's Facilities and, is in compliance with applicable federal, state and local laws, rules and/or regulations.

Grantor reserves and retains the right, at Grantor's sole discretion and upon giving at least ninety (90) days prior notice thereof to Grantee, to relocate any one or all of the Easement Area (and all related Grantee Facilities therein) at Grantor's sole cost and expense provided said relocation is accomplished in such a manner as to not materially and unreasonably interfere with Grantee's rights hereunder the Grantee's operations on the Grantee Property and Grantor obtains all approvals therefor. If such relocation is to a place outside of the currently designated Easement Area, Grantee shall execute and deliver to Grantor, promptly upon request, an amendment to this Agreement setting forth the revised Easement Area.

The easements granted above shall survive the vacation by proper authority expressly mentioned in the ordinance of vacation.

TO HAVE AND TO HOLD the above Easements and Easement Parcels and the rights and use thereof as follows:

1. The Easements herein granted shall run with the land and the covenants, agreements, terms, conditions, obligations, rights and interests herein contained or provided shall be likewise binding upon and shall inure to the benefit of the Parties hereto, their respective heirs, executors, successors, grantees, lessees and assigns.

2. The Village, at its cost and expense, shall record this Agreement in the Office of the Recorder of Deeds of Cook County.

3. This Agreement shall be governed, interpreted, construed and enforced in accordance with the laws of the State of Illinois.

4. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

5. [Reserved]

6. The Grantor represents and warrants to the Village that Grantor has full right and authority to enter into this Agreement and that Grantor does not need any additional authority or consent of any other entity or party to obligate and bind Grantor to the terms, provisions and covenants contained in this Agreement.

7. Pursuant to Section 19.12.060 B3 of the Wheeling Municipal Code, the grantee has been advised that if it is not possible or practical to maintain the existing landscaping within and immediately adjacent to the easement area, the elimination of said landscaping is hereby approved as an Administrative Change through the execution and recording of this easement document.

8. Grantee, at Grantee's sole cost and expense, shall cause the surface of the Easement Area to be restored to substantially the same condition as existed prior to Grantee's exercise of any rights pursuant to the terms of this Agreement within thirty days following conclusion of operations on Grantor's Property (**"Restoration"**). The Easement Area shall be left in as clean, smooth and level condition as practicable with no areas of ponding and/or water accumulation. Grantee shall notify Grantor in writing when ninety percent (90%) of the Restoration is completed at which time the Parties shall inspect the Easement Area, and any portion of the Grantor's Property affected by the Grantee's exercise of its rights under the terms of this Agreement, and the Parties shall create a punch-list of Restoration work to be completed. The punch-list and completed Restoration shall meet the approval of Grantor, approval not to be unreasonably withheld, conditioned, or delayed.

9. Grantee shall have the sole responsibility and obligation to obtain and pay for all required permits and approvals that apply to Grantee's intended use or operations on the Easement Area. All costs and expenses incurred in the installation, construction, maintenance, repair and replacement of the Facilities described herein shall be borne solely by Grantee. Grantee shall at all times, at Grantee's sole cost and expense, keep, maintain, repair and restore the Facilities in good and operating condition and in accordance with applicable utility operation and maintenance standards. Grantee shall perform all work, activities and operations on or about Grantor's Property in a good and workmanlike manner, pursuant to sound engineering and construction principles, and in compliance with all laws, rules and regulations applicable thereto. Grantee shall promptly pay and discharge all costs, expenses, damages and other liabilities related to the work performed by Grantee pursuant to this Agreement and shall keep Grantor's Property free from any and all liens arising out of or related thereto. If any such liens or encumbrances are filed against Grantor's Property, then Grantee, after becoming aware of such lien, shall promptly either (a) pay the amount thereof and cause the same to be released of record, or (b) diligently contest such lien or encumbrance and deliver to Grantor bond or other security reasonably satisfactory to Grantor.

10. Grantee shall indemnify, defend, and hold Grantor, its successors and assigns, transferees, employees, agents, lessees, contractors, subcontractors, as well as trustees, beneficiaries, relatives, partners, officers, directors and related or affiliated entities harmless from any and all liability, liens, demands, judgments, suits, attorneys' fees, costs and claims of any kind or character arising out of, in connection with, or relating to Grantee's operations, and/or the operations of its employees, agents, contractors and subcontractors, on Grantor's Property including, but not limited to, claims for injury to or death of any persons, damage, loss or destruction of any property, real or personal, and/or any breach of this Agreement by the indemnifying party. Grantee further covenants and agrees to defend any suits brought against Grantor on any claims, and to pay any judgment against Grantor resulting from any suit or suits arising from Grantee's operations under the terms of this Agreement. It is the intention of Grantee and Grantor that Grantee shall not be liable to Grantor in respect of (and the foregoing indemnity shall not cover) any claim to the extent the same resulted from the gross negligence or willful misconduct of Grantor. This provision shall survive the termination of this Agreement

11. Grantee shall purchase and maintain all insurance required by Applicable Law and, the following minimum insurance, issued by a company licensed to do business in Illinois and shall underwrite all policies required by this provision: (a) Broad form Commercial General Liability insurance policy with a minimum policy limit of $2,000,000 per occurrence, $2,000,000 in the aggregate including construction/excavation and collapse hazard, broad form property damage, independent contractors and personal injury, death or property damage resulting from each occurrence; (b.) Automobile Liability insurance for each automobile owned or leased by Grantee, with a $1,000,000 per occurrence policy limit; and (c) Workers' Compensation/Employer's Liability with statutory coverage with a $1,000,000/accident, $1,000,000/Disease-Policy, $1,000,000/Disease-per employee. The insurance policies in this Section 11 shall be written to protect Grantor and shall provide for thirty (30) days written notification to Grantor prior to its cancellation for any reason including non-payment of premiums. Grantee shall cause Certificates of Insurance evidencing the above coverage to be provided promptly upon request of Grantor. The insurance policies required under this Section 11 shall cover the Grantor and shall reflect that Grantee and its insurers have waived any right of subrogation against Grantor and its insurers. Grantee shall further ensure that this Agreement is included as an "insured contract" with respect to each of its commercial general liability and products/completed operations insurance policies, so that coverage is available under each of those policies for, inter alia, amounts that Grantee must pay as a result of the indemnification obligations set forth herein. The Commercial General Liability and Automobile Liability policies required in this Section shall include the following endorsement: "The insurance afforded to the additional insured is primary insurance. If the additional insured has other insurance which is applicable to the loss on a contributing, excess or contingent basis, the amount of this insurance company's liability under this policy shall not be reduced by the existence of such other insurance. Any insurance carried by the additional insured shall be excess and non-contributing with the insurance provided by the Grantee." Additionally, Grantor may request evidence of commercially reasonable insurance from any contractor, if any, performing work at the direction of the Grantee. This Section 9 shall survive the termination of the Agreement.

12. **Grantor makes no warranty of title and Grantee accepts the property that is the subject of this Agreement** "AS IS, WHERE IS". Grantee agrees that it is accepting the Easement described herein subject to all valid and existing licenses, leases, grants, exceptions, encumbrances, title defects, matters of record, reservations and conditions affecting Grantor's Property and/or affecting access thereto.

13. Grantee may not assign this Agreement without the prior written consent of Grantor.

IN WITNESS WHEREOF, the Parties have signed this Agreement as of the day, month and year first above written.

GRANTOR:

BY:_____
ITS:_____

By: JAMES A. WILSON
Vice President
Name:_____
Title:_____

GRANTEE:
VILLAGE OF WHEELING,
AN ILLINOIS MUNICIPAL CORPORATION

By:_____
Name: Patrick Horcher
Title: Village President

ATTEST:

By:_____
Name: Kathryn M Brady
Title: Village Clerk

[INSERT VILLAGE SEAL ABOVE]

STATE OF ILLINOIS)
) SS.
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY, that _____ and _____, is personally known to me be ~~JAMES A. WILSON Vice President~~

Given under my hand and official seal, this 15th day of JULY, 2026.

Vidya Shirish Darshane
Notary Public

My Commission Expires: OCTOBER 21, 2027

OFFICIAL SEAL
VIDYA SHIRISH DARSHANE
Notary Public, State of Illinois
Commission No. 827557
My Commission Expires October 21, 2027

STATE OF ILLINOIS)
)
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that the above-named Patrick Horcher and Kathryn M Brady, as the **Village President** and **Village Clerk** respectively of the **VILLAGE OF WHEELING, A MUNICIPAL CORPORATION,** (the **"Village"**) personally known to be the same persons whose names are subscribed to the foregoing instrument, and that they appeared before me this day in person and severally acknowledged that as such **Village President** and **Village Clerk**, they signed and delivered the said instrument as the **Village President** and **Village Clerk** pursuant to authority given by the **Village Board of Trustees**, and as their free and voluntary act, and as the free and voluntary act and deed of the **Village**, for the uses and purposes therein set forth, and that the **Village Clerk**, as custodian of the corporate seal of the **Village**, has caused the seal to be affixed thereto.

GIVEN under my hand and official seal, this_____day of_____, 2026.

_____ _____
Notary Public Commission Expiration

Date: 07/29/2025

Exhibit A

A.L.T.A. COMMITMENT FORM
-Schedule A Continued-

THE EAST 413.33 FEET OF THE WEST 2492.2 FEET OF LOT 1 (EXCEPTING THEREFROM THE NORTH 249 FEET THEREOF AND ALSO EXCEPTING THE WEST 206.66 FEET (EXCEPT THE NORTH 249 FEET THEREOF) IN THE SUBDIVISION OF THE NORTH ¼ OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 20, 1888, AS DOCUMENT NUMBER 994521; ALSO DESCRIBED AS FOLLOWS: THAT PART OF THE NORTH 528 FEET OF THE SOUTH 1188 FEET (EXCEPTING THEREFROM THE NORTH 249 FEET THEREOF AND EXCEPTING THEREFROM THE WEST 206.66 FEET THEREOF (EXCEPT THE NORTH 249 FEET THEREOF) OF THE NORTH ¼ OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTH LINE OF THE SOUTH 1188 FEET OF SAID NORTH ¼ OF SAID SECTION 13, POINT BEING 831.35 FEET WEST OF THE CENTER LINE OF MILWAUKEE AVENUE, AS MEASURED ALONG SAID NORTH LINE; THENCE SOUTH ALONG A LINE DRAWN PERPENDICULAR TO SAID NORTH LINE, 528 FEET TO THE SOUTH LINE OF SAID NORTH 528 FEET THEREOF; THENCE WEST ALONG SAID SOUTH LINE, 413.33 FEET; THENCE NORTH PERPENDICULAR TO SAID SOUTH LINE, 528 FEET TO THE NORTH LINE OF THE SOUTH 1188 FEET THEREOF; THENCE EAST ALONG SAID NORTH LINE, 413.33 FEET TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS.

PERMANENT TAX NUMBER(S): 03-13-102-027

ISSUED BY:
Wheatland Title Company
105 W. Veterans Parkway
Yorkville, Illinois 60560

Agent for:
Fidelity National Title Insurance Company

PART OF THE N 1/2 OF SECTION 13, TWP. 42 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDING	PERMANENT EASEMENT AREA	PIN	ADDRESS
0004PE	1.324 Ac±	0.047 Ac±	03-13-102-027	350 SUMAC RD

Exhibit B

N

GRAPHIC SCALE FEET

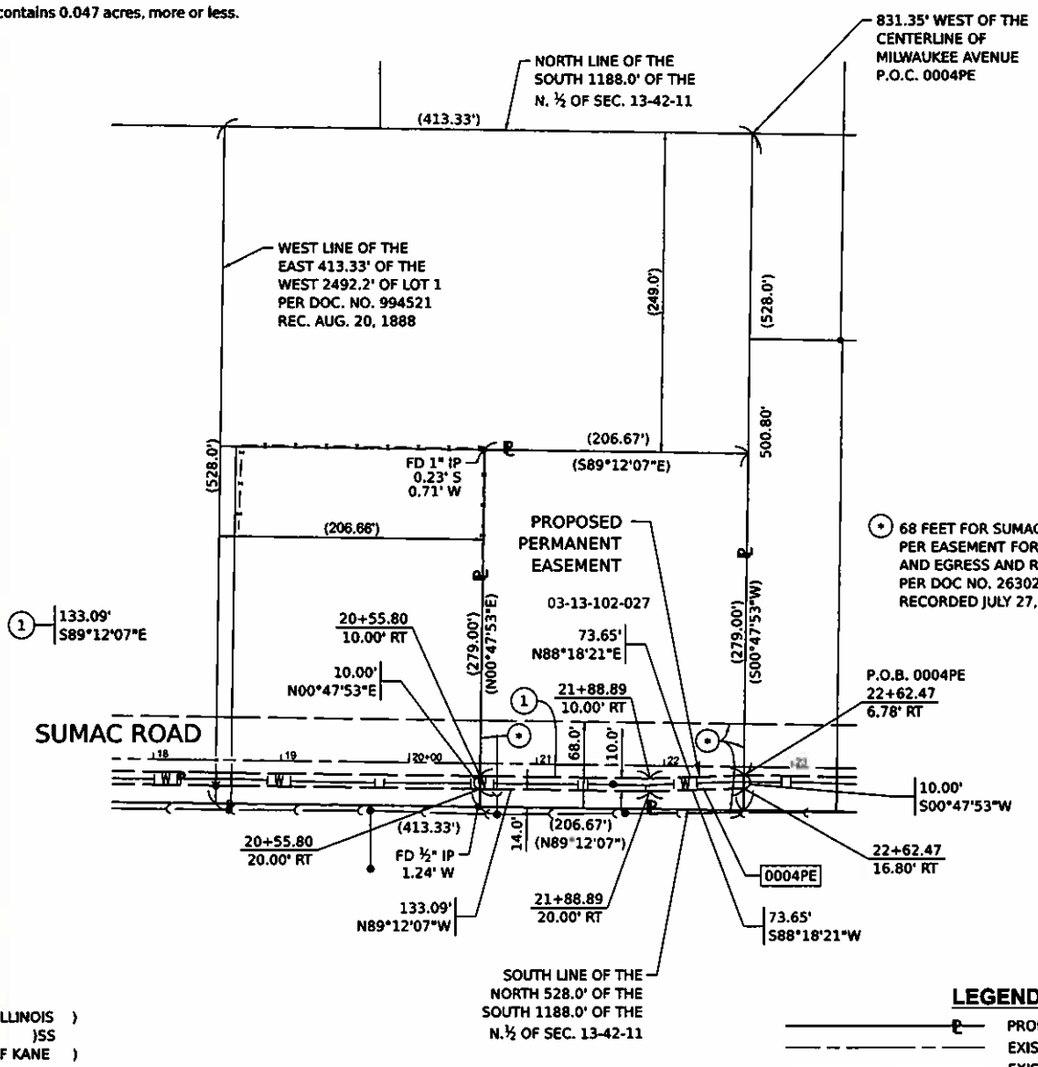
SCALE: 1"= 100'

Proposed Utility Easement:

A 10-foot-wide public utility easement to the Village of Wheeling, Illinois, over, under and upon the following described parcel of land; that part of The East 413.33 feet of the West 2492.2 feet of Lot 1 (excepting therefrom the North 249 feet thereof and also excepting the West 206.66 feet (except the North 249 feet thereof) in the Subdivision of the North Half (½) of Section 13, Township 42 North, Range 11, East of the Third Principal Meridian, according to the Plat thereof recorded August 20, 1888, as Document Number 994521; also described as follows: That part of the North 528 feet of the South 1188 feet (excepting therefrom the North 249 feet thereof and excepting therefrom the West 206.66 feet thereof (except the North 249 feet thereof) of the North Half (½) of Section 13, Township 42 North, Range 11, East of the Third Principal Meridian, described as follows: Beginning at a point on the north line of the South 1188 feet of said North Half (½) of said Section 13, point being 831.35 feet west of the center line of Milwaukee Avenue, as measured along said north line; thence South along a line drawn perpendicular to said north line, 528 feet to the south line of said North 528 feet thereof; thence West along said south line, 413.33 feet; thence North perpendicular to said south line, 528 feet to the north line of the South 1188 feet thereof; thence East along said north line, 413.33 feet to the Point of Beginning, all in Cook County, Illinois, bearings and distances based on Illinois State Plane Coordinate System, East Zone, NAD83 (2011 Adjustment), described as follows:

Commencing at a point being 831.35 feet west of the center line of Milwaukee Avenue, as measured along the north line of the South 1188.00 feet of the North Half (1/2) of Section 13, Township 42 North, Range 11, East of the Third Principal Meridian; thence South along line drawn perpendicular to said north line, South 00 degrees 47 minutes 53 seconds West, 500.80 feet to the Point of Beginning; thence continuing along the same bearing, 10.00 feet; thence South 88 degrees 18 minutes 21 seconds West, 73.65 feet; thence North 89 degrees 12 minutes 07 seconds West, 133.09 feet; thence North 00 degrees 47 minutes 53 seconds East, 10.00 feet; thence South 89 degrees 12 minutes 07 seconds East, 133.09 feet; thence North 88 degrees 18 minutes 21 seconds East, 73.65 feet to the Point of Beginning.

Said parcel contains 0.047 acres, more or less.



STATE OF ILLINOIS)
)SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, REJENA H. LYON, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PROPERTY SHOWN HEREON IN SECTION 13, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE VILLAGE OF WHEELING, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ___ DAY OF _____ 20 ___ A.D.

_____

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3302
LICENSE EXPIRATION DATE: NOV. 30, 2026

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FIELD WORK COMPLETED: 04/30/2025

REVISION DATE: / / REVISION MADE BY:

PROFESSIONAL LAND SURVEYOR
REJENA H. LYON
035-003302
ELGIN, IL
STATE OF ILLINOIS

LEGEND

- PROPERTY (DEED) LINE
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- W — WATER MAIN
- SANITARY SEWER
- 129.32' MEASURED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING
- O IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- MANHOLE
- FIRE HYDRANT

Hampton, Lenzini and Renwick, Inc.
Civil Engineers · Structural Engineers
Land Surveyors · Environmental Services
1707 N. RANDALL ROAD, SUITE 100
ELGIN, ILLINOIS 60123
847.697.6700 www.hlrengineering.com
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PS / SN CORPORATION

EASEMENT PLAT

SUMAC ROAD
PARCEL 0004PE

SHEET 4 OF 8

VILLAGE OF WHEELING
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090

MEMORANDUM

DATE:	August 3, 2026
FROM:	Daniel Kaup, Deputy Village Manager/Public Works Director
SUBJECT:	Resolution Adopting the Stormwater Master Plan Update as a Continuation of the Village's Current Plan to Reduce Local Flooding in Wheeling
DOLLAR AMOUNT:	N/A
BUDGETED:	Yes
BUDGET SOURCE:	N/A
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Residential Life

EXECUTIVE SUMMARY

This resolution adopts the attached Stormwater Master Plan update as a continuation of the Village's current plan. The updates are consistent with the draft plan, which was presented to the Village Board at the July 20, 2026, Regular Board meeting.

MEMO

Discussion:

In an effort to continue to reduce the negative impacts of localized flooding in the Village, staff recommends adoption of the attached Stormwater Master Plan update. The plan details areas of the community that continue to be affected by rain events, outlines infrastructure improvement projects to alleviate flooding impacts from the rain events, and identifies cost estimates associated with each of the projects outlined in the plan update.

Background:

At the July 20, 2026, regular board meeting, staff presented the attached Stormwater Master Plan update to the Board of Trustees. The plan update is the culmination of a collaborative work effort between Public Works and Engineering staff and Christopher B Burke Engineering, a local civil engineering consultant and engineering firm that assisted in the construction of the original Stormwater Master Plan adopted in 2015.

In the ten years since the adoption of the original plan, the Village has completed many of the major projects identified as necessary to alleviate community flooding issues. In 2025, the Village recognized the need to update the plan to assess the effectiveness of the completed projects, identify areas of the Village that still experience negative stormwater impacts due to rain events, and develop a new set of projects and associated cost estimates to further reduce community flooding problems. The result of the work effort is the attached plan. The discussion that resulted from the July 20 presentation culminated in the overall approval of the draft plan. As such, staff recommends approval of the attached resolution, which will adopt the plan as an update to the Village's current Stormwater Master Plan.

Budget:

There is no cost component for this adoption of the Stormwater Master Plan.

RESOLUTION NO. 26 - _____

RESOLUTION ADOPTING THE STORMWATER MASTER PLAN UPDATE AS A CONTINUATION OF THE VILLAGE'S CURRENT PLAN TO REDUCE LOCAL FLOODING IN WHEELING

WHEREAS, in an effort to continue to reduce the negative impacts of local flooding in the Village, staff recommends adoption of the attached Stormwater Master Plan ("Plan") update; and

WHEREAS, the Plan details areas of the community that continue to be affected by rain events, outlines infrastructure improvement projects to alleviate flooding impacts from the rain events, and identifies cost estimates associated with each of the projects outlined in the Plan update; and

WHEREAS, the Plan update is the culmination of a collaborative work effort between Public Works and Engineering staff and Christopher B Burke Engineering, a local civil engineering consultant which was the engineering firm that assisted in the construction of the original stormwater master plan adopted in 2015; and

WHEREAS, in the ten years since the adoption of the original Plan, the Village has completed many of the major projects identified as necessary to alleviate community flooding issues; and

WHEREAS, in 2025, the Village recognized the need to update the Plan to ascertain the effectiveness of the completed projects, to identify areas of the Village that still experienced negative stormwater impacts due to rain events, and to develop a new set of projects and associated cost estimates to further reduce community flooding problems; and

WHEREAS, it is in the best interest of the Village to adopt the Stormwater Master Plan update; and

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COUNTIES OF COOK AND LAKE, STATE OF ILLINOIS, that the Village President and Board of Trustees are hereby authorized to accept and adopt the attached Stormwater Master Plan update.

Trustee _____ moved, second by Trustee _____, that Resolution No. 26- _____ be adopted.

President Horcher _____

Trustee Krueger _____ Trustee Ruffatto _____

Trustee Lang _____ Trustee Vito _____

Trustee Papantos _____ Trustee Vogel _____

ADOPTED this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

ATTEST: _____
Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

Wheeling Stormwater Master Plan

Phase 2

Wheeling, IL

Village of Wheeling, IL
2 Community Boulevard
Wheeling, IL 60090

May 11, 2026

Prepared by

Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600
Rosemont, IL 60018

CBBEL Project No. 25-0120

TABLE OF CONTENTS

Table of Contents i
List of Tables iii
List of Figures iii
List of Exhibits iv
Appendices v
Executive Summary 2
Chapter 1 Project Overview 4
1.1 Introduction 4
1.2 Previous Studies 4
1.3 Purpose and Scope 6
Chapter 2 Study Development 9
2.1 Village Staff and Public Involvement 9
2.2 Data Collection 9
Chapter 3 Description of Existing Drainage System 11
Chapter 4 Hydrologic and Hydraulic Model Development 12
Chapter 5 Existing Level of Service 14
5.1 Critical Duration and Design Storms 14
Chapter 6 Jackson Drive & Schoenbeck Road Study Area 16
6.1 Jackson Drive & Shoenbeck Road analysis approach 17
6.2 Jackson Drive & Schoenbeck Road Existing Conditions 17
6.3 Jackson Drive & Schoenbeck Road Proposed Conditions 18
Chapter 7 West Jeffery Avenue & West Manchester Drive Study Area 20
7.1 West Jeffery Avenue & West Manchester Drive Analysis Approach 21
7.2 West Jeffery Avenue & West Manchester Drive Existing Conditions 21
7.3 West Jeffery Avenue & West Manchester drive proposed Conditions 21
Chapter 8 East Jeffery Avenue & East Manchester Drive Study Area 23
8.1 East Jeffery Avenue & East Manchester Drive Analysis Approach 24
8.2 East Jeffery Avenue & East Manchester Drive Existing Conditions 24
8.3 East Jeffery Avenue & East Manchester drive proposed Conditions 24
Chapter 9 1st Street & Deborah Lane Study Area 26
9.1 1st Street & Deborah Lane Analysis Approach 27

9.2 1st Street & Deborah Lane Existing Conditions 27
9.3 1st Street & Deborah Lane Proposed Conditions 27
Chapter 10 Dunhurst Study Area 29
10.1 Modeling Approach 30
10.2 Dunhurst Existing Conditions 31
10.2.1 East Dunhurst 32
10.2.2 West Dunhurst 34
10.2.3 South Dunhurst 35
10.2.4 North Wheeling Road 35
10.2.5 South Wheeling Road 36
10.3 Dunhurst Proposed Conditions 36
10.3.1 Alternative 1 – East Dunhurst Proposed Overflow Outlet 36
10.3.2 Alternative 2 – South Dunhurst Proposed Sewer Conveyance and Storage 37
10.3.3 Alternative 3 – As-Built Eastchester Relief Storm Sewer 37
10.3.4 Alternative 4 – Raise North Wheeling Road 38
10.3.5 Alternative 5 –As-Built South Wheeling Road Proposed Relief Sewer 38
Chapter 11 Echo Lake & Ridgefield Study Area 39
11.1 Modeling Approach 40
11.2 Echo Lake & Ridgefield Existing Conditions 41
11.3 Alternative 6 – Echo Lake & Ridgefield South Flood Storage and Conveyance Improvements 43
11.4 Alternative 7 – Echo Lake & Ridgefield Comprehensive Flood Storage and Coneyance Improvements 44
11.5 Echo Lake & Ridgefield 2024 CBBEL Water Quality Assessment 45
11.6 Echo Lake & Ridgefield Toberman Water Quality Analysis and Improvement Project 46
11.7 Echo Lake & Ridgefield 2014 Evaluation 47
11.8 Echo Lake & Ridgefield Proposed Water Quality Improvements 48
11.8.1 Alternative 7A 48
11.8.2 Alternative 7B 50
Chapter 12 Private Property Drainage Issues 51
Chapter 13 Hollywood Ridge Drainage Issues 54
Chapter 14 Financing of Stormwater Improvement Projects 57

LIST OF TABLES

Table 1. Executive Summary Table 3
Table 2. Modeled Study Areas Stormwater Problem Summary 8
Table 3. Design Storm Statistical Probabilities 14
Table 4. ISWS Rainfall Values for 2-Hour Storm 14
Table 5. Alternative 2 Summary – South Dunhurst 37
Table 6. Calibration Summary – Echo Lake & Ridgefield Study Area 40
Table 7. Existing Conditions Summary – Echo Lake & Ridgefield Study Area 42
Table 8. Alternative 6 Proposed Conditions Summary – Echo Lake & Ridgefield Study Area 43
Table 9. Alternative 7 Proposed Conditions Summary – Echo Lake & Ridgefield Study Area 45
Table 10. Echo Lake & Ridgefield Study Area 2024 Pond Assessment Summary 45
Table 11. Hollywood Ridge Outfall Capacity 55
Table 12. Hollywood Ridge Existing Level-of-Service (LOS) 56
Table 13. Hollywood Ridge Outfall Capacity Required for 10-year, 30-minute Storm 56

LIST OF FIGURES

Figure 1. Problem Location Map from 2016 Stormwater Master Plan 5
Figure 2. SWMP Phase 2 Problem Location Map 7
Figure 3. Village of Wheeling Topography 11
Figure 4. Jackson and Schoenbeck Study Area 16
Figure 5. Jackson and Schoenbeck Proposed Storm Sewer Improvements 19
Figure 6. West Jeffery and West Manchester Study Area 20
Figure 7. West Jeffery and West Manchester Proposed Storm Sewer Improvements 22
Figure 8. East Jeffery and East Manchester Study Area 23
Figure 9. East Jeffery and East Manchester Proposed Storm Sewer Improvements 25
Figure 10. 1st and Deborah Study Area 26
Figure 11. 1st and Deborah Proposed Storm Sewer Improvements 28
Figure 12. Dunhurst Study Area 30
Figure 13. Dunhurst 100-YR Flood Map 32
Figure 14. East Dunhurst Flood Problem 33
Figure 15. East Dunhurst Trunk Sewer Profile 34
Figure 16. West Dunhurst Flood Problem 34
Figure 17. South Dunhurst Flood Problem 35
Figure 18. Echo Lake & Ridgefield Study Area 39
Figure 19. Echo Lake Drainage Area 41
Figure 20. Sandpebble & Bridle Trail Flood Problem (100 Year Storm) 42
Figure 21. Alternative 7A Bank Stabilization Schematic 49
Figure 22. Alternative 7A Bank Stabilization Schematic 50
Figure 23. Private Property Drainage Issues Area – Orchard Lake 51
Figure 24. Orchard Lake Potential Ponding Area 52

Figure 25. Hollywood Ridge Outfalls..... 54
Figure 26. Hollywood Ridge Outfall Tributary Areas..... 55

LIST OF EXHIBITS

1. Jackson Drive and Schoenbeck Road Subbasins Map
2. Jackson Drive and Schoenbeck Road Existing 10-Year Storm Inundation Map
3. Jackson Drive and Schoenbeck Road Existing 100-Year Storm Inundation Map
4. Jackson Drive and Schoenbeck Road Proposed Improvements Map
5. Jackson Drive and Schoenbeck Road Proposed Storm Sewer Routing Through Early Learning Center Development
6. Jackson Drive and Schoenbeck Road Proposed 10-Year Storm Inundation Map
7. Jackson Drive and Schoenbeck Road Proposed 100-Year Storm Inundation Map
8. West Jeffery Avenue and West Manchester Drive Subbasins Map
9. West Jeffery Avenue and West Manchester Drive Existing 10-Year Storm Inundation Map
10. West Jeffery Avenue and West Manchester Drive Existing 100-Year Storm Inundation Map
11. West Jeffery Avenue and West Manchester Drive Proposed Improvements Map
12. West Jeffery Avenue and West Manchester Drive Proposed 10-Year Storm Inundation Map
13. West Jeffery Avenue and West Manchester Drive Proposed 100-Year Storm Inundation Map
14. East Jeffery Avenue and East Manchester Drive Subbasins Map
15. East Jeffery Avenue and East Manchester Drive Existing 10-Year Storm Inundation Map
16. East Jeffery Avenue and East Manchester Drive Existing 100-Year Storm Inundation Map
17. East Jeffery Avenue and East Manchester Drive Proposed Improvements Map
18. East Jeffery Avenue and East Manchester Drive Proposed 10-Year Storm Inundation Map
19. East Jeffery Avenue and East Manchester Drive Proposed 100-Year Storm Inundation Map
20. 1ST Street and Deborah Lane Subbasins Map
21. 1ST Street and Deborah Lane Existing 10-Year Storm Inundation Map
22. 1ST Street and Deborah Lane Existing 100-Year Storm Inundation Map
23. 1ST Street and Deborah Lane Proposed Improvements Map
24. 1ST Street and Deborah Lane Proposed 10-Year Storm Inundation Map
25. 1ST Street and Deborah Lane Proposed 100-Year Storm Inundation Map
26. Dunhurst Subbasin Map
27. Dunhurst Existing 100-Year Storm Inundation Map
28. Dunhurst Alternative 1 – East Dunhurst
29. Dunhurst Alternative 1 Proposed 100-Year Storm Inundation Map
30. Dunhurst Alternative 2 – South Dunhurst
31. Dunhurst Alternative 2 Proposed 100-Year Storm Inundation Map
32. Dunhurst As-Built Alternative 3 – Eastchester Sewer
33. Dunhurst As-Built Alternative 3 100-Year Storm Inundation Map
34. Dunhurst Proposed Alternative 4 – Raise N Wheeling Rd
35. Dunhurst Proposed Alternative 5 – S Wheeling Rd Relief Sewer
36. Echo Lake / Ridgefield Subbasin Map
37. Echo Lake / Ridgefield Existing 100-Year Storm Inundation Map

38. Echo Lake / Ridgefield Alternative 6 – South Ridgefield Pond Improvements
39. Echo Lake / Ridgefield Alternative 6 Proposed 100-Year Storm Inundation Map
40. Echo Lake / Ridgefield Alternative 7 – Comprehensive Ridgefield Pond Improvements
41. Echo Lake / Ridgefield Alternative 7 Proposed 100-Year Storm Inundation Map

APPENDICES

1. Cost Estimates
2. Plan Sets Used for Supplemental Information

EXECUTIVE SUMMARY

The original Stormwater Master Plan (SWMP) for the Village of Wheeling (Village) was completed in 2016 to address stormwater issues and flooding throughout the Village. The purpose of the SWMP was to present the findings of detailed analyses, provide justification for stormwater improvement projects in a prioritized manner, and provide documentation to the Village to initiate a stormwater utility fee to help fund stormwater projects. The SWMP focused on issues with local storm sewer systems, riverine floodplains, and water quality.

With many of the projects from the original SWMP complete, and the onset of new, higher rainfall from the Illinois State Water Survey (ISWS) Bulletin 75 to reflect changing weather patterns, the Village retained Christopher B. Burke Engineering, Ltd. to prepare a SWMP Phase 2. New drainage issues since the original SMWP were modeled and new concept improvement projects were developed. Previously modeled flood problem areas were reassessed with Bulletin 75 rainfall to understand the increased flood risk and effectiveness of both constructed and previously proposed concept improvement projects.

The SWMP is intended to be an all-inclusive stormwater resource for the Village's use when addressing stormwater issues. The SWMP identifies proposed improvement projects to be used for reference when funding opportunities become available. Stormwater improvement projects are located within problem areas identified by Village Staff. The recent assessment of the Village's stormwater problems revealed eight (8) individual study areas to be addressed in the SWMP Phase 2. Two study areas were previously modeled in the 2016 SWMP – Dunhurst Subdivision and Echo Lake / Ridgefield Drainage area. Four new study areas were identified as critical repeat flooding problems which required detailed hydrologic and hydraulic modeling analyses:

- Jackson Drive and Schoenbeck Road
- West Jeffery Avenue and West Manchester Drive
- East Jeffery Avenue and West Manchester Drive
- 1st Street and Deborah Lane

A high-level analysis of two study areas – Hollywood Ridge and Orchard Lake – were completed. All eight (8) study areas can be seen in **Figure 2**.

The methodology for analyzing stormwater issues varies depending on the size and severity of the problem area. The study areas were assessed with various stormwater analyses. These analyses include evaluation of previous conceptual modeling of flood reduction improvements, PCSWMM hydrologic and hydraulic modeling, and hydrologic and hydraulic calculations. All modeled study areas include at least one recommendation for flood improvements and an estimated cost for each project. Because the Village experienced multiple storm events approximately equivalent to the 100-year storm event, the improvement projects are designed to protect for the 100-year storm where possible, but 10-year storm designs were provided at locations where cost considerations or standard engineering practice were drivers. **Table 1** summarizes the projects evaluated and associated costs, in no particular order.

Table 1. Executive Summary Table

Flood Area	Stormwater Issue	Description	Recommended Improvement Alternative	Estimated Cost	Project Status
Jackson Drive and Schoenbeck Road	Residential and Street Flooding	Houses along Jackson Drive have flooded on several occasions due to overland flow from west to east through residential yards.	Resize existing storm network along Jackson Drive and install lateral storm sewer to drain the area the existing drain tile drains. Reroute storm sewer to accommodate future development in the northeast corner of Jackson Drive and Hintz Road.	$2.6 million	
West Jeffery Avenue and West Manchester Drive	Street Flooding	Poor residential sewer drainage between Jeffery Avenue and Manchester Drive resulting in street flooding.	Construct new storm sewer system along West Manchester Drive with outfall to Wheeling Drainage Ditch. Construct new storm sewer in the corner of Meadowbrook Lane with outfall to Wheeling Drainage Ditch.	$3.1 million	
East Jeffery Avenue and East Manchester Drive	Street Flooding	Poor residential sewer drainage between Jeffery Avenue and Manchester Drive resulting in street flooding.	Construct new storm sewer along East Manchester Drive and Marvin Place and a new 3 ac-ft storage vault on the north side of Manchester Drive.	$7.2 million	
1st Street and Deborah Lane	Street Flooding	Poor residential sewer drainage along Deborah Lane resulting in street flooding.	Construct new horizontal ellipse pipe, upsize existing pipe, and add an outlet from the intersection of 1st Street and Deborah Lane to drain ponding along Deborah Lane to the retention pond to the north.	$266,000	
East Dunhurst	Residential and Street Flooding	A depressional area along Wayne Place and Bridget Place results in residential and street flooding.	Alternative 1: Acquire 1 residential parcel to provide overland flow route to drain depressional flood area during large storms.	$1.5 million	
South Dunhurst	Residential and Street Flooding	Depressional flooding and overland flow through houses occurs on Audrey Court, Isa Drive, Bernice Court, Green Drive, and Merle Lane.	Alternative 2: Construct new sewer system and flood storage at Mark Twain Elementary School to reduce flooding for the 100-year storm. Project is partially built as of January 2026.	-	Completed
Eastchester	Residential and Street Flooding	A depressional area originating at Hastings Road and Garth Road.	Alternative 3: Eastchester Relief Sewer was identified after the 2016 SWMP. A 30-inch relief storm sewer was constructed from the problem area to Echo Lake.	-	Completed
North Wheeling Road	Street Flooding (2 locations)	Wheeling Road overtops frequently north of Mercantile Ct during storm events when Buffalo Creek is high.	Alternative 4: Raise Wheeling Road 2 feet from current low spot to prevent tailwater flooding from Buffalo Creek.	$2.9 million	In Design
South Wheeling Road	Street Flooding	A depressional flood area exists on Wheeling Road south of Exchange Court.	Alternative 5: Provide relief sewer with backwater prevention that drains to Echo Lake to prevent water ponding on Wheeling Road.	$700,000	Completed
Echo Lake and Ridgefield	Pond Overtopping, Street Flooding, Water Quality Concerns	The three ponds south of Echo Lake are interconnected flowing south to north into Echo Lake. Past storm events result in these ponds overtopping their banks and flooding nearby residential streets. Bank erosion during storm events has resulted in pond sedimentation.	Alternative 6: Provide 10-year flood reduction at the Sandpebble Apartments and Polo Run Pond with storm sewer and pond improvements Alternative 7: Reduce flooding for the 100-year storm by creating 20 acre-feet of flood storage by lowering the NWL in Polo Run Pond, the North and South Ridgefield Ponds, and excavate a new storage volume at the Sandpebble Apartments. Stabilize pond banks in the North and South Ridgefield Ponds.	Alt 6: $3.5 million Alt 7: $10.4 million	
Orchard Lake	Rear Yard Flooding	Several rear yard areas have experienced routine flooding due to poor rear yard drainage structures.	Install PVC pipe in rear yards connected to existing storm sewer. Further analysis needed.	-	Detailed analysis required for cost estimate
Hollywood Ridge	Residential and Street Flooding, Undersized Culverts	Routine Flooding due to undersized outfalls and storm sewer network.	Upsize outfalls and storm sewer network. Further analysis needed.	-	Detailed analysis required for cost estimate

CHAPTER 1 PROJECT OVERVIEW

1.1 INTRODUCTION

The Village of Wheeling (Village) mainly consists of residential, industrial, and commercial properties with a total area of 8.8 square miles and a population of approximately 39,000 people. The Village began seeing an increase in manufacturing plants in the 1960s which led to the development of residential neighborhoods. Most residential subdivisions in the Village were constructed with separate storm and sanitary sewer systems. This report focuses on stormwater issues in the Village and does not address sanitary issues.

The Village is dedicated to addressing the management of stormwater quality and quantity. Stormwater management falls under the Village's Engineering Division with necessary approval for new stormwater projects granted by the Board of Trustees. The Village encourages progressive engineering design to manage stormwater quantity while enforcing pollution prevention to improve stormwater quality.

To address these priorities, the Village retained Christopher B. Burke Engineering, Ltd. (CBBEL) to develop a Stormwater Master Plan in 2016. In 2025, the Village retained CBBEL again to develop a SWMP Phase 2 to reflect the latest priorities for stormwater management in the Village and reassess some of the projects proposed or built since 2016. The SWMP Phase 2 addresses existing and anticipated problems related to stormwater runoff and localized flooding with detailed stormwater modeling, concept improvement development, and cost estimates for capital planning.

1.2 PREVIOUS STUDIES

A comprehensive Stormwater Master Plan was created for the Village in 2016. This plan focused on 11 different study areas, identified the flooding issues that occur during large storm events, and presented proposed improvements for each. However, there has been an increase in large storm events resulting in more frequent flooding throughout the Village and Northeast Illinois. This rainfall increase is reflected in the recent Bulletin 75 precipitation frequency study completed by the Illinois State Water Survey (ISWS) in 2020. This updated analysis utilizes the ISWS Bulletin 75 rainfall depths to identify combined sewer deficiencies.

The location of problem areas identified as part of the 2016 SWMP is shown in **Figure 1**.

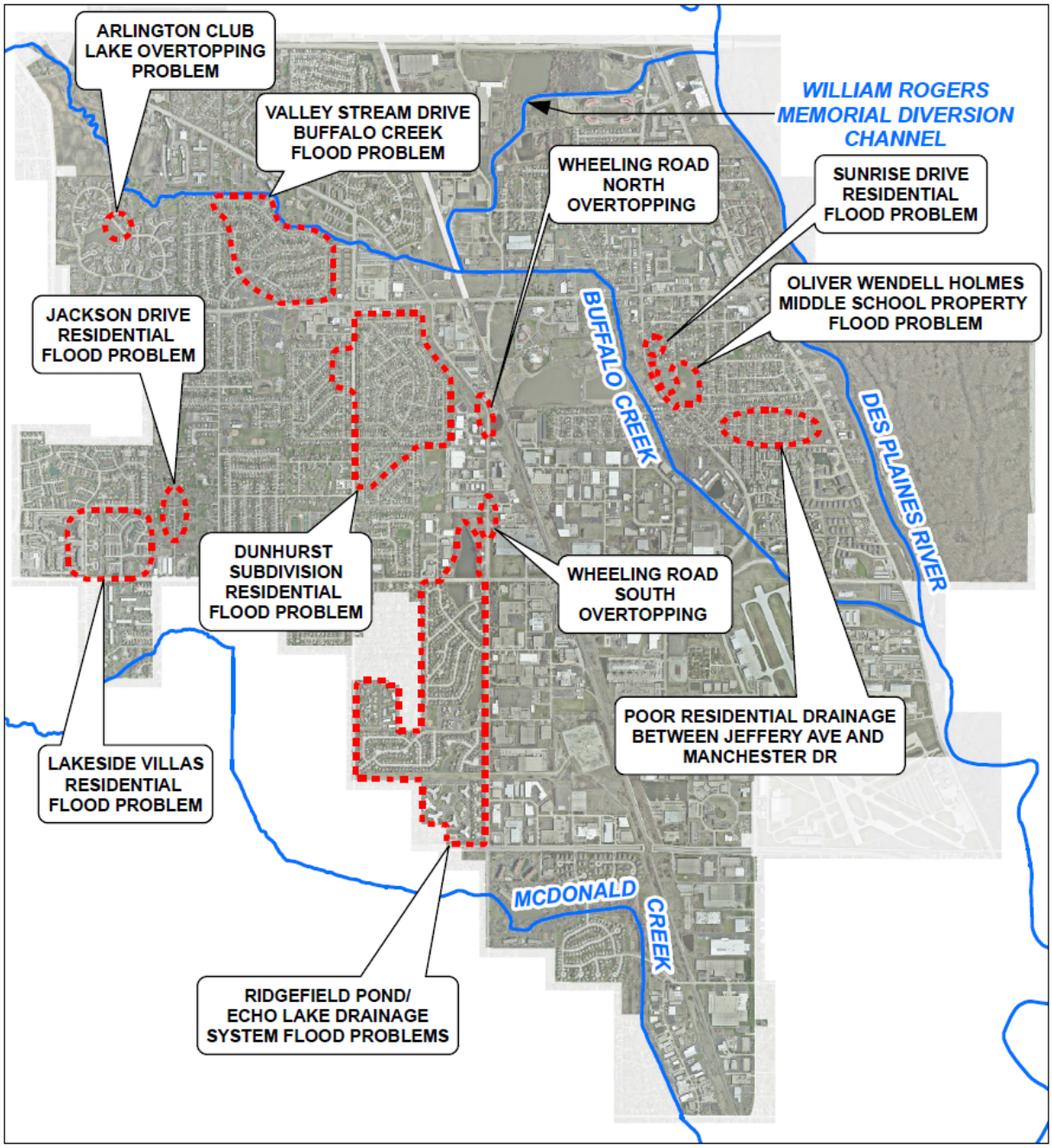


Figure 1. Problem Location Map from 2016 Stormwater Master Plan

1.3 PURPOSE AND SCOPE

The purpose of the original SWMP was to develop and analyze stormwater improvement projects, and provide recommendations that will:

- Mitigate existing flood/drainage problems,
- Prevent or minimize future flood damages,
- Help preserve the natural and beneficial function of the drainage system, and
- Help preserve and enhance stormwater quality.

The goal of the original SWMP was to provide a framework which the Village can use to develop a stormwater utility fee, and implement a stormwater improvement program, which have since been accomplished. The SWMP Phase 2 builds on the original SWMP with the analysis of detailed modeling analysis of additional flood issues throughout the Village and addresses nuisance drainage issues as well. An analysis of each problem was performed to identify potential improvement projects. The location of all problem areas identified as part of the SWMP Phase 2 is shown in **Figure 2**. The methodology to analyze each problem area varies based on the size and severity of the stormwater issues at that location. **Table 2** provides a brief description of the stormwater issue at each study area and the methodology to analyze the problem.

The SWMP Phase 2 provides detailed modeling analyses for the Jackson Drive and Schoenbeck Road, West Jeffery Avenue and Manchester Drive, East Jeffery Avenue and Manchester Road, and 1st Street and Deborah Lane study areas which all experience repeated flood events. These areas have been analyzed using PCSWMM 2D modeling. The detailed modeling is used to identify optimal locations and sizes for drainage improvements to reduce flood damages.

The original SWMP included two detailed modeling analyses of the Dunhurst and Echo Lake / Ridgefield study areas. The modeling was completed using lower ISWS Bulletin 70 rainfall values, which were effective at the time of the study. These modeling analyses were completed using XPSWMM 2D modeling. Since the original SWMP, several projects were constructed and are re-analyzed as part of the SWMP Phase 2 to assess their effectiveness with the higher Bulletin 75 rainfall. The SWMP Phase 2 also re-assesses projects that have not been completed and provides updated concept cost estimates based on current construction unit prices.

The SWMP Phase 2 identifies concept proposed improvement projects to be completed when grant or funding opportunities become available and for developing the appropriate stormwater utility fee. Chapters of this SWMP can be used to supplement funding requests or grant applications as they become available.

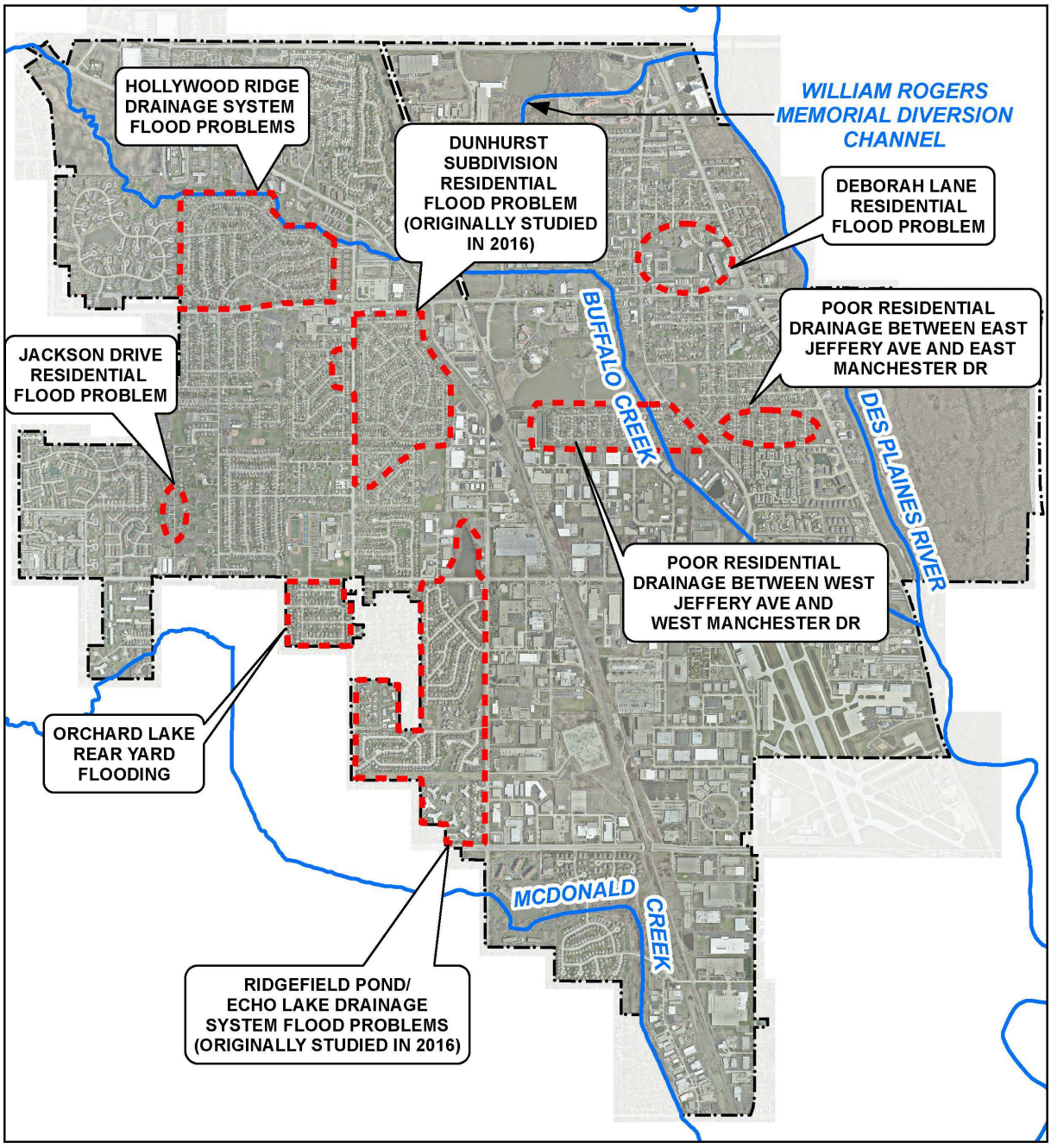


Figure 2. SWMP Phase 2 Problem Location Map

Table 2. Modeled Study Areas Stormwater Problem Summary

Flood Area	Stormwater Issue	Description	Analysis Methodology
Jackson Drive and Schoenbeck Road	Residential and Street Flooding	Houses along Jackson Drive have flooded on several occasions due to overland flow from west to east through residential yards.	PCSWMM Modeling
West Jeffery Avenue and West Manchester Drive	Street Flooding	Poor residential sewer drainage between Jeffery Avenue and Manchester Drive resulting in street flooding.	PCSWMM Modeling
East Jeffery Avenue and East Manchester Drive	Street Flooding	Poor residential sewer drainage between Jeffery Avenue and Manchester Drive resulting in street flooding.	PCSWMM Modeling
1st Street and Deborah Lane	Street Flooding	Poor residential sewer drainage along Deborah Lane resulting in street flooding.	PCSWMM Modeling
Dunhurst	Residential and Street Flooding	Previously studied in 2016 SWMP. The large residential area south of Dundee Rd and west of Wheeling Rd has poor stormwater drainage resulting in multiple flood events. Streets and homes impacted in three defined problem areas (East Dunhurst, West Dunhurst, & South Dunhurst)	XPSWMM Modeling
Echo Lake and Ridgefield	Pond Overtopping, Street Flooding, Water Quality Concerns	Previously studied in 2016 SWMP. The three ponds south of Echo Lake are interconnected flowing south to north into Echo Lake. Past storm events result in these ponds overtopping their banks and flooding nearby residential streets. Bank erosion during storm events has resulted in pond sedimentation.	XPSWMM Modeling
Orchard Lake	Rear Yard Flooding	Several rear yard areas have experienced routine flooding due to poor rear yard drainage and lack of inlet structures.	Topographic Analysis
Hollywood Ridge	Residential and Street Flooding, Undersized Culverts	Routine Flooding due to undersized outfalls and storm sewer network.	Hydrologic and Hydraulic Calculations

CHAPTER 2 STUDY DEVELOPMENT

2.1 VILLAGE STAFF AND PUBLIC INVOLVEMENT

Participation from Village staff, decision-makers, and the public is essential to understanding the flooding and drainage issues and to craft improvements to effectively address these problems. A project team consisting of members of Village Staff, including the Public Works and Engineering Department, and CBBEL met throughout the development of the SWMP. The primary role of the project team was to provide input identifying drainage issues and complaints experienced throughout the Village. The extent and nature of known flooding problems in the Village were identified through discussions with Village staff based on the their records of flooding and drainage complaints.

2.2 DATA COLLECTION

The data collection phase was integral to the model development to create an accurate baseline condition for the SWMP. Updated storm sewer system data was obtained for each of the study areas. The main data source for the sewer system was the Village's GIS sewer atlas, supplemented with field verifications and Village-provided plans. The following were provided in the Village's GIS sewer atlas:

- Sewers (9193)
- Inlets (2973)
- Catch basins (2740)
- Manholes (2593)
- Flared End Sections (557)
- Sewer Discharge Points (306)

The sewer shapefile includes ownership and who maintains it. It also includes pipe diameters for the sewers on Village owned property. Field work was performed which determined these measurements to be generally accurate with minor discrepancies. Additional survey was done by CBBEL to measure pipes that had no diameter listed. Some of the existing storm sewer pipes were located incorrectly or were missing, but the field data was used to update the models. Invert elevations were provided for 1209 out of the 9169 structures. Surface elevations were provided for all structures. In addition to the Village's GIS sewer atlas, CBBEL utilized 14 design or as-built engineering plans provided by the Village. The plan sets are titled as follows:

- Early Learning Center Site Plan Exhibit, Cage Civil Engineering – April 3, 2025
- Jackson Drive Lift Station, Hager Engineering – July 9, 2015
- 1st Street and Deborah Lane Existing Conditions – January 14, 2025
- Drainage and Utilities Wolf Road, Baxter and Woodman – January 10, 2020

- Dunhurst Relief Storm Sewer Improvement Plans, Hager Engineering – February 21, 2020
- Bridget and Wayne Storm Sewer Improvements, Village of Wheeling – March 27, 2018
- Cambridge on the Lake Lift Station Reconstruction As-Built Plans, Ciorba Group – July 14, 2023
- 2020 MFT Street Improvement Program, Hager Engineering – March 6, 2020
- Proposed Shoreline Stabilization & Pond/Bank Improvements, Norman J. Toberman & Associates, LLC. Consulting Engineers & Surveyors – July 12, 2016
- South Dunhurst Stormwater Improvements Phase 1 As-Built Plans, Berger Contractors – October 28, 2025
- South Dunhurst Stormwater Improvements Phase 2 Engineering Plans, Baxter & Woodman – February 3, 2025
- South Dunhurst Stormwater Improvements Phase 2 As-Built Plans, Martam Construction – January 15, 2026
- South Wheeling Road Drainage Improvements, Ciorba Group, July 23, 2018
- Eastchester Relief Storm Sewer, Hager Engineering – March 26, 2020

To further supplement the data now available, CBBEL spent multiple days doing field work obtaining missing invert data (doing dips) while also checking structures of known data to verify the accuracy of the sewer atlas and plan set data. The field checks proved the data was within reasonable range. During the data collection process, CBBEL reviewed the engineering project data from the 2016 SWMP. This data provided supplemental information helpful for model development. When there was conflicting data, the most recent was used.

CHAPTER 3 DESCRIPTION OF EXISTING DRAINAGE SYSTEM

The Village is serviced by separate storm sewers that ultimately discharge into the Des Plaines River, either directly or through the Buffalo Creek tributary. In 2001, the Village constructed the 7300-foot William Rogers Memorial Diversion Channel which diverts flood water from Buffalo Creek to the Des Plaines River. Generally, stormwater drains from the west to the east toward the Des Plaines River, following the general topography shown in **Figure 3**.

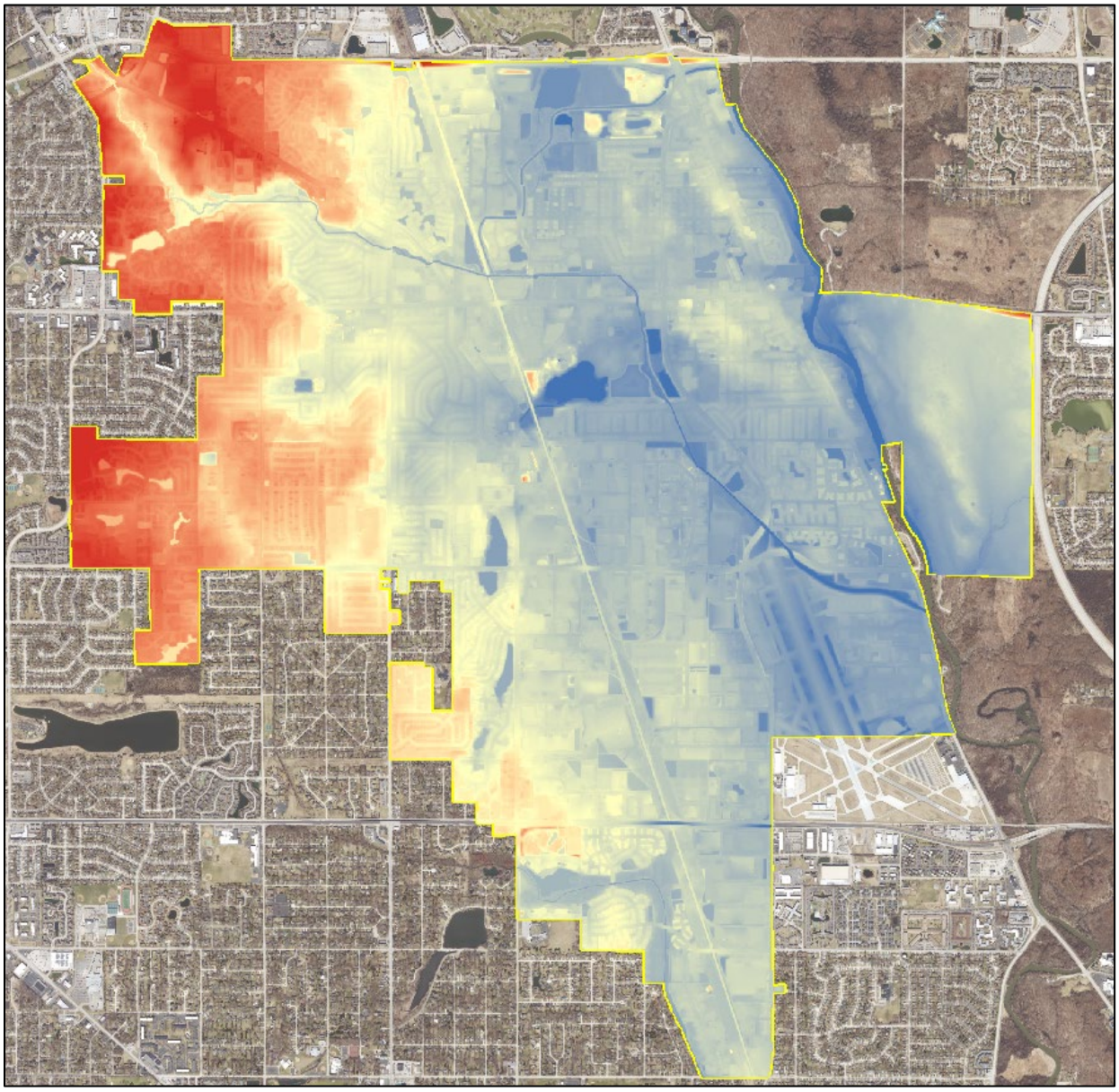


Figure 3. Village of Wheeling Topography

CHAPTER 4 HYDROLOGIC AND HYDRAULIC MODEL DEVELOPMENT

The four areas analyzed using PCSWMM computer software are Jackson Drive and Schoenbeck Road, West Jeffery Avenue and West Manchester Drive, East Jeffery Avenue and East Manchester Drive, and 1st Street and Deborah Lane. PCSWMM is an advanced modeling software for stormwater, wastewater, and watershed systems based on the US Environmental Protection Agency's (EPA) Storm Water Management Model (SWMM). PCSWMM is a 2D dynamic hydrologic and hydraulic modeling program that is ideal for analyzing urban stormwater management systems. PCSWMM simulates rainfall-runoff responses for the user specified storm events (hydrologic component) and analyzes the performance of the stormwater management system (hydraulic component).

The drainage area for each study area was broken down into smaller subbasins. In total, forty-eight (48) subbasins were delineated using the 2022 Cook County 1-foot aerial topography and the existing storm sewer network. The hydrologic parameters that define each subbasin were determined based on methodology outlined in *TR-55: Urban Hydrology for Small Watersheds* (U.S. Department of Agriculture, 1986). In the PCSWMM model, the following information was input for each subbasin:

- Drainage Area
- SCS Curve Number (CN)
- Time of Concentration (Tc)

The CN was defined based on the current land use using Village provided aerial photography for each of the subbasins. The CN value calculated for each subbasin is based on the ratio of impervious to pervious area in each subbasin. The Tc is a calculation of the longest time it takes a drop of water to reach the outlet of the subbasin. Hydrologic maps with subbasin delineations and hydrologic parameters are shown in **Exhibits 1**, **8**, **14**, **20, 26**, and **36**.

The hydraulic elements of the model, including storm sewer diameters, lengths, materials, slopes, etc. were obtained from the Village's GIS database. Other sources were used to supplement any information that was missing in the database including:

- Manhole invert depths obtained by CBBEL staff
- Design and As-built drawings (**Appendix 2**)
- Field investigations performed by CBBEL staff

The majority of the model setup was performed in GIS. The following parameters were assigned to GIS polylines and points which were converted to PCSWMM conduits and junctions using the import feature in PCSWMM.

Sewers: GIS Polylines -> PCSWMM Conduits

- Diameter
- Upstream invert elevation
- Downstream invert elevation

Structures: GIS Points -> PCSWMM Junctions

- Ground/rim elevation (from Cook County DTM)
- Invert elevation
- Depth
- Curve Number
- Time of Concentration (Tc)

In addition to the sewer network, overland flow and depressional storage that can cause flooding must be modeled. If a sewer does not have sufficient capacity to convey the tributary runoff, the system surcharges out of the manhole rim. To effectively analyze the interaction between the sewer system and the overland element of the model, PCSWMM 2D modeling was utilized. The hydrology and subsurface hydraulics are analyzed using the standard 1D methods while the catch basins act as the connection between the 1D and 2D surface interface. The surface is modeled using a Digital Terrain Model (DTM) created from a detailed Lidar dataset. From this, 2D nodes, outfalls, and conduits are generated to imitate the overland flow of water. When the storm sewers exceed capacity, the excess stormwater enters the 2D model surface and flood water moves naturally as determined by the DTM. This method provides a more accurate analysis of flood depths and limits along overland flow routes and depressional storage areas as well as providing vivid graphics for presentation of flooding.

CHAPTER 5 EXISTING LEVEL OF SERVICE

5.1 CRITICAL DURATION AND DESIGN STORMS

A critical duration analysis was completed using the existing PCSWMM model. The critical duration was determined for the Village's sewer system in the different study areas utilizing rainfall depths published in the 2020 Precipitation Frequency Study for Illinois (aka Bulletin 75) prepared by the ISWS and Huff rainfall distributions. The critical duration refers to the duration of a storm that produces maximum water surface elevations, flood depths or flow rates. For example, the 100-year critical duration analysis included executing the PCSWMM model for the 30-minute through 3-hour duration storm events. The storm event producing the highest flood elevation is the critical duration storm event, and all proposed improvements are then designed for the critical duration storm. For the 1st and Deborah, East Jeffery and Manchester, and Jackson and Schoenbeck, the 2-hour duration design storm is the critical duration. For the West Jeffery and Manchester study area, the 1-hour duration design storm is the critical duration. Upon completion of the critical duration analysis, the PCSWMM model was run for the 10-year and 100-year return intervals for the critical storm duration.

The term "10-year storm" is used to define a rainfall event recurrence interval that statistically has the same 10% chance of occurring in any given year. **Table 3** shows the recurrence and statistical probability of a storm happening in a given year.

Table 3. Design Storm Statistical Probabilities

Recurrence Interval in Years	Probability of Occurrence in any Given Year	Percent Chance of Occurrence in any Given Year
100	1 in 100	1
10	1 in 10	10
5	1 in 5	20
2	1 in 2	50

The first SWMP implemented by the Village in 2016 intended to achieve a 10-year level of service (LOS) for the effective ISWS Bulletin 70 rainfall values which are significantly lower than the current design rainfall values. **Table 4** shows the 2-hour ISWS Bulletin 70 and Bulletin 75 rainfall values for various recurrence intervals that were simulated with the model.

Table 4. ISWS Rainfall Values for 2-Hour Storm

Recurrence Interval	Rainfall Depth (B70)	Rainfall Depth (B75)
10-Year	2.64"	2.99"
100-Year	4.47"	4.97"

After discussions with Village engineering staff, the desired goal of the SWMP was to identify areas with less than 10-year LOS and develop capital concept improvement projects to bring the area up to standard.

CHAPTER 6 JACKSON DRIVE & SCHOENBECK ROAD STUDY AREA

This study area is located between Jackson Drive and Schoenbeck Road west of Elmhurst Road as shown on **Figure 4**. This study area was analyzed due to frequent rear yard flooding from failing drain tiles.

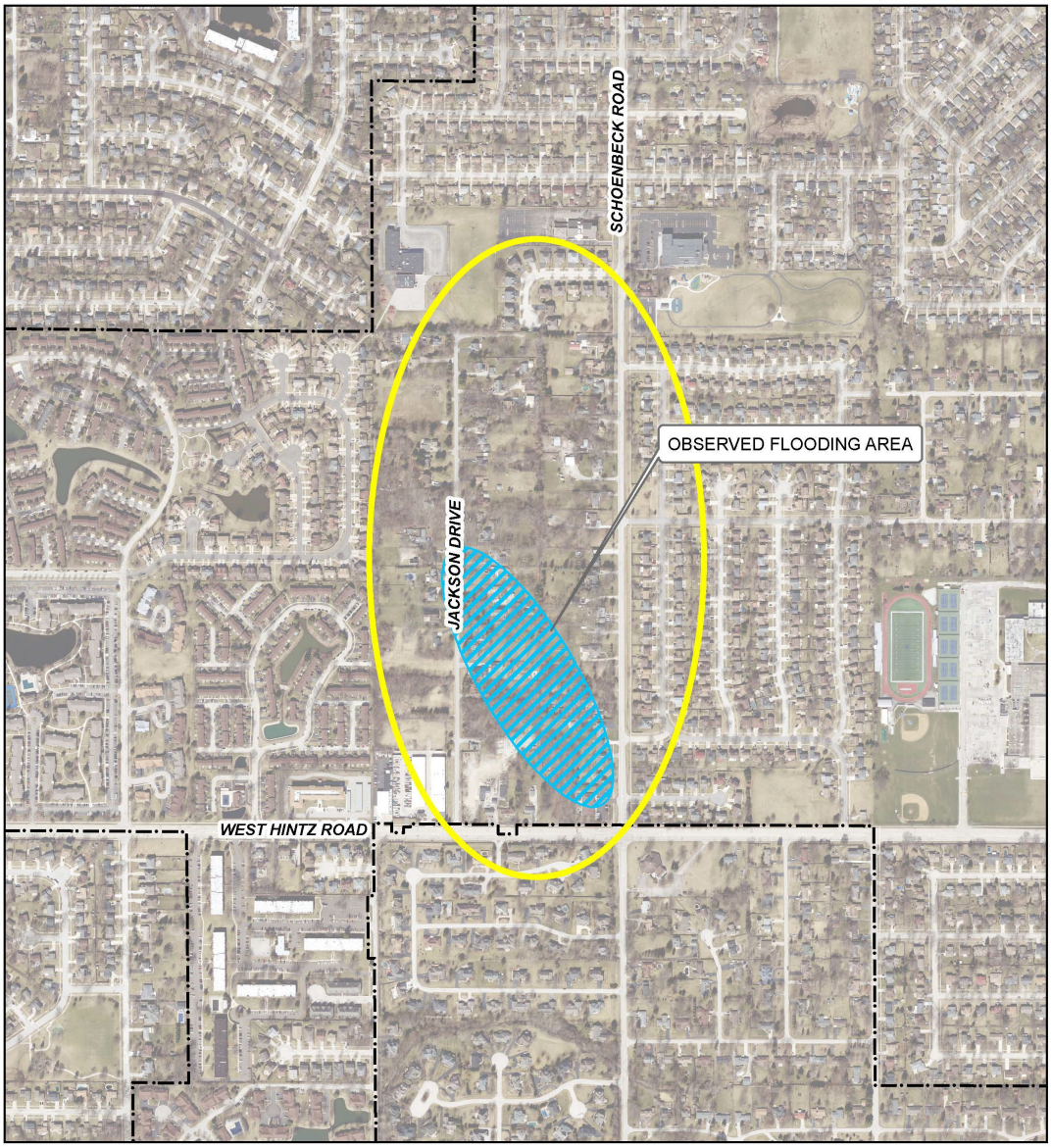


Figure 4. Jackson and Schoenbeck Study Area

6.1 JACKSON DRIVE & SHOENBECK ROAD ANALYSIS APPROACH

The Jackson Drive and Schoenbeck Road flooding area is located within the Village; however, the watershed drains areas from the Villages of Arlington Heights, Buffalo Grove, and unincorporated Cook County. The watershed draining to Schoenbeck Road includes the following developments:

- Tahoe Village
- Malibu Cove Subdivision
- Mallard Lake (Zale's Subdivision)
- Lakeside Villas
- Jackson Drive
- Cambridge subdivision of Arlington Heights
- Cambridge subdivision of Buffalo Grove (University Drive area)

The study area extends downstream to Elmhurst Road where a drain tile from Jackson Drive connects to the storm sewer system. Approximately 540 acres are tributary to Elmhurst Road.

The Jackson and Schoenbeck study area was divided into 16 subbasins with the average subbasin area of 33.7 acres. The average CN is 87, and the average time of concentration of the subbasins is 50 minutes. PCSWMM was used to analyze the existing and proposed sewer system to drain the problem areas. Bulletin 75 rainfall data was used in this study to evaluate the proposed projects. Existing sewer data was provided by the Village and additional survey of this area was conducted. Based on the survey, provided sewer data, and county spatial data, an existing conditions analysis was performed. The critical duration storm was determined to be the 2-hour storm.

6.2 JACKSON DRIVE & SCHOENBECK ROAD EXISTING CONDITIONS

The overland flow and sewers in this study area generally drains from west to east, with several retention areas throughout. The retention areas cascade into one another with storm sewers to drain water from west to east. There is a pump station draining a large basin at the north end of Jackson Drive and pump station flowrates were determined from engineering plans provided by the Village and input into the model. The overland flow paths are generally well defined except for the rear yards of the houses along Jackson Drive where there are drain tiles. The drain tiles from Jackson Drive to Schoenbeck are in poor condition and contribute to routine flooding in the rear yards of homes. There are sections where they have been replaced. The sewer system and subbasin delineation are shown in **Exhibit 1**.

Modeling the existing conditions analysis in PCSWMM confirmed that there is rear yard flooding in the depressional area behind the houses along the east side of Jackson Drive and the west

side of Schoenbeck Road. The maximum water surface elevation (WSEL) in this area during the 100-year storm is 663.2 ft. The proposed Early Learning Center development, located at the northeast corner of Hintz Road and Jackson Drive, overlaps with this flood area, so the 100-year WSEL will need to be accounted for during design and grading. To construct the proposed sewer on the new development, an easement is required. The existing conditions for the 10-year 2-hour storm and 100-year 2-hour storm are shown in **Exhibits 2** and **3,** respectively. The proposed sewer network was designed so the overland flow path through the rear yards can maintain the 10-year LOS as the existing drain tiles.

6.3 JACKSON DRIVE & SCHOENBECK ROAD PROPOSED CONDITIONS

A proposed conditions model was developed in PCSWMM to size a new storm sewer system for the study area to replace the drain tiles and meet or exceed the existing capacity while not negatively impacting downstream properties. Storm sewers in the proposed condition were designed to flow in the direction of existing overland flow routes. The proposed catch basins were designed to collect overland flow.

The proposed project upsizes the existing 24-inch pipe flowing south that runs along the east side of Jackson Road to a 42-inch pipe with two lateral pipes conveying water from the depressional area to the main sewer. The 42-inch sewer then flows to the east and eventually connects back to the existing storm sewer on the east side of Schoenbeck Road. These improvements will replace the failing drain tiles that are difficult to access with an alternative that is better suited for perpetual maintenance. **Exhibit 4** and **Figure 5** show the proposed storm sewer system improvements.



Figure 5. Jackson and Schoenbeck Proposed Storm Sewer Improvements

A preliminary plan was provided for an Early Learning Center development that is located at the northeast corner of East Hintz Road and Jackson Drive. The proposed sewer line was designed to run underneath the driveway and parking lot of the proposed development, allowing it to collect runoff. However, the development conflicts with both the existing and proposed flood elevations since it overlaps with the depressional area. In the proposed conditions 100-year, 2-hour storm model, the maximum WSEL that conflicts with the building is 663.2feet. This should be taken into consideration when setting the finished floor for the building. **Exhibit 5** shows the proposed routing of the sewer through the Early Learning Center development.

The proposed 10-year and 100-year inundation maps can be found in **Exhibit 6** and **Exhibit 7**, respectively. **The estimated cost of the proposed project is $2.63 million.**

CHAPTER 7 WEST JEFFERY AVENUE & WEST MANCHESTER DRIVE STUDY AREA

This study area is located between West Jeffrey Avenue and West Manchester Drive west of Wolf Road and east of Wheeling Road as shown in **Figure 6**. This study area was analyzed due to frequent structure and street flooding from lack of adequate storm sewer drainage.

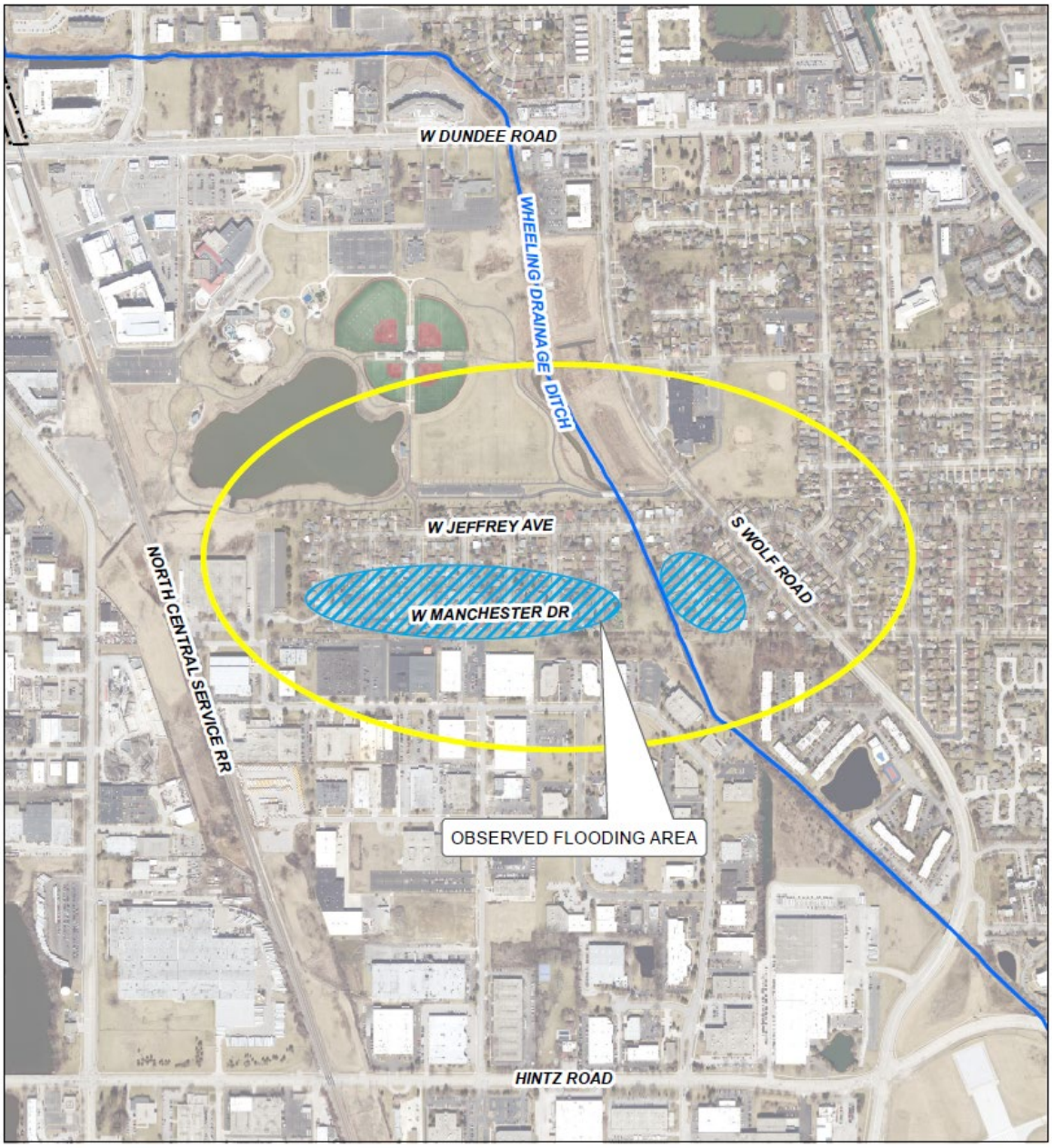


Figure 6. West Jeffery and West Manchester Study Area

7.1 WEST JEFFERY AVENUE & WEST MANCHESTER DRIVE ANALYSIS APPROACH

The West Jeffery Avenue study area was divided into 8 different subbasins with the average subbasin area of 5.4 acres. The average CN is 90, and the average time of concentration of the subbasins is 17.5 minutes. PCSWMM was used to analyze the existing and proposed sewer system to drain the problem areas. Existing sewer data was provided by the Village and additional survey of this area was conducted. Based on the survey, provided sewer data, and county spatial data, an existing conditions analysis was performed. The critical duration storm was determined to be the 1-hour storm.

7.2 WEST JEFFERY AVENUE & WEST MANCHESTER DRIVE EXISTING CONDITIONS

Overland flow in the study area west of the Wheeling Drainage Ditch generally drains north to south and west to east along the roadways. The study area generally has well defined overland flow routes except for two depressions at the southwest corner of West Manchester Drive and Sunset Lane and at West Manchester Drive and Melvin Place. Intermittent lateral sewers drain south to an 18-inch trunk sewer flowing east behind the houses along the southern side of Manchester Drive draining east to the Wheeling Drainage Ditch as seen in **Exhibit 8**.

Overland flow in the study area east of the Wheeling Drainage Ditch drains from north to south and east to west. There is one 10-inch pipe that drains this area directly to the Wheeling Drainage Ditch.

The existing conditions analysis showed there is significant street flooding along West Manchester Drive and West Jeffery Avenue with street flooding over 1 foot in depth during the 10-year storm and over 2 feet in depth during the 100-year storm. The existing conditions inundation area for the 10-year 1-hour storm and 100-year 1-hour storm are shown in **Exhibits 9** and **10**, respectively. The proposed sewer network was designed for the study area to provide 10-year LOS with no roadway flooding.

7.3 WEST JEFFERY AVENUE & WEST MANCHESTER DRIVE PROPOSED CONDITIONS

The standard for residential stormwater design is that the 10-year storm event runoff can be conveyed entirely with storm sewers. Overland flow routes are designed to handle any excess runoff up to the 100-year storm event. A proposed conditions PCSWMM model was developed to size a new storm sewer system for the study area based on this standard. Storm sewers in the proposed condition were designed to flow in the direction of existing overland flow routes. Catch basins for the proposed sewer network were located to collect overland stormwater along the streets at every intersection along West Manchester Drive.

On the west side, the proposed trunk sewer flows from west to east along West Manchester and outlets through a 42-inch storm sewer to the Wheeling Drainage Ditch. On the east side, the existing pipes will be upsized at the corner of Meadowbrook Lane, carrying flow from east

to west. The east area will outlet through a 21-inch storm sewer to the Wheeling Drainage Ditch. The proposed outlet storm sewers will have backflow preventers to minimize riverine flooding and tailwater effects on the proposed sewer system. **Exhibit 11** and **Figure 7** show the proposed storm sewer system improvements.

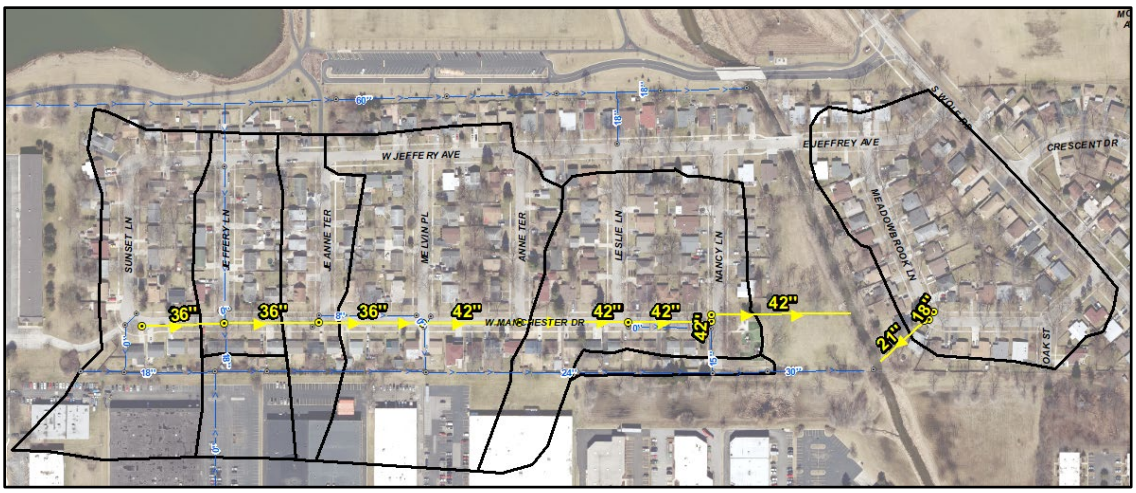


Figure 7. West Jeffery and West Manchester Proposed Storm Sewer Improvements

The proposed 10-year and 100-year inundation maps can be found in **Exhibit 12** and **Exhibit 13**, respectively. This project would benefit 14 homes within the West Jeffery and Manchester watershed.

The estimated cost of the proposed project is $3.12 million.

CHAPTER 8 EAST JEFFERY AVENUE & EAST MANCHESTER DRIVE STUDY AREA

This study area is located between East Jeffrey Avenue and East Manchester Drive west of Milwaukee Avenue and east of Wolf Road as shown in **Figure 8**. This study area was analyzed due to frequent street flooding from lack of adequate storm sewer drainage.



Figure 8. East Jeffery and East Manchester Study Area

8.1 EAST JEFFERY AVENUE & EAST MANCHESTER DRIVE ANALYSIS APPROACH

The east Jeffery Avenue study area was divided into 17 different subbasins with the average subbasin area of 7.3 acres. The average CN is 89.3, and the average time of concentration of the subbasins is 16.8 minutes. PCSWMM was used to analyze the existing and proposed sewer system to drain the problem areas. Existing sewer data was provided by the Village and additional survey of this area was conducted. The Village also provided plans for the IDOT Wolf Road Reconstruction Project to show updated sewer information. Based on the survey, provided sewer data, and county spatial data, an existing conditions analysis was performed. The critical duration storm was determined to be the 2-hour storm.

8.2 EAST JEFFERY AVENUE & EAST MANCHESTER DRIVE EXISTING CONDITIONS

Overland flow in the study area generally drains north to south and east to west along the roadways. The study area generally has well defined overland flow routes except for one depression at the southeast corner of the study area along Manchester Drive. Intermittent lateral sewers drain south to a trunk sewer flowing east on Manchester Drive beginning at Crescent Drive and draining to the Des Plaines River as seen in **Exhibit 14**. A townhouse complex to the south also drains to the trunk sewer along Manchester Drive. The trunk sewer is a 42-inch pipe as it exits the study area collecting flow from storm sewers along Milwaukee Avenue before its ultimate outlet to the Des Plaines River.

After performing the existing conditions analysis, it was shown that there is significant street flooding along East Manchester Drive and Jeffery Avenue with street flooding over 1 foot in depth during the 10-year, 2-hour storm and over 2 feet in depth during the 100-year, 2-hour storm. The existing conditions for the 10-year, 2-hour storm and 100-year, 2-hour storm are shown in **Exhibits 15** and **16**, respectively. The proposed sewer network was designed for the study area based on the 10-year LOS.

8.3 EAST JEFFERY AVENUE & EAST MANCHESTER DRIVE PROPOSED CONDITIONS

The standard for residential stormwater design is that that 10-year storm event runoff be conveyed entirely within storm sewers, and overland flow routes are designed to handle any excess runoff up to the 100-year storm event. A proposed conditions model was developed in PCSWMM to size a new storm sewer system for the study area based on this standard. Storm sewers in the proposed condition were designed to flow in the direction of existing overland flow routes. Catch basins for the proposed sewer network were located to collect overland stormwater along the streets at every intersection along West Manchester Drive.

The proposed trunk sewer flows from west to east along the south side of East Manchester Drive and outlets through a 36-inch storm sewer to a proposed underground storage vault. The storage vault will be installed under a parking lot and have the capacity to store 3-acre feet of

stormwater. The vault outlets through a 6-inch pipe to the existing trunk sewer along East Manchester Drive and eventually outlets to the Des Plaines River. **Exhibit 17** and **Figure 9** show the proposed storm sewer system improvements.



Figure 9. East Jeffery and East Manchester Proposed Storm Sewer Improvements

The proposed 10-year and 100-year inundation maps can be found in **Exhibit 18** and **Exhibit 19**, respectively.

The estimated cost of the proposed project is $7.2 million.

CHAPTER 9 1ST STREET & DEBORAH LANE STUDY AREA

This study area is located between Mayer Avenue and Dundee Road west of Milwaukee Avenue and east of Wolf Road as shown in **Figure 10**. This study area was analyzed due to frequent street flooding at the 1st Street and Deborah Lane intersection from lack of adequate storm sewer drainage.

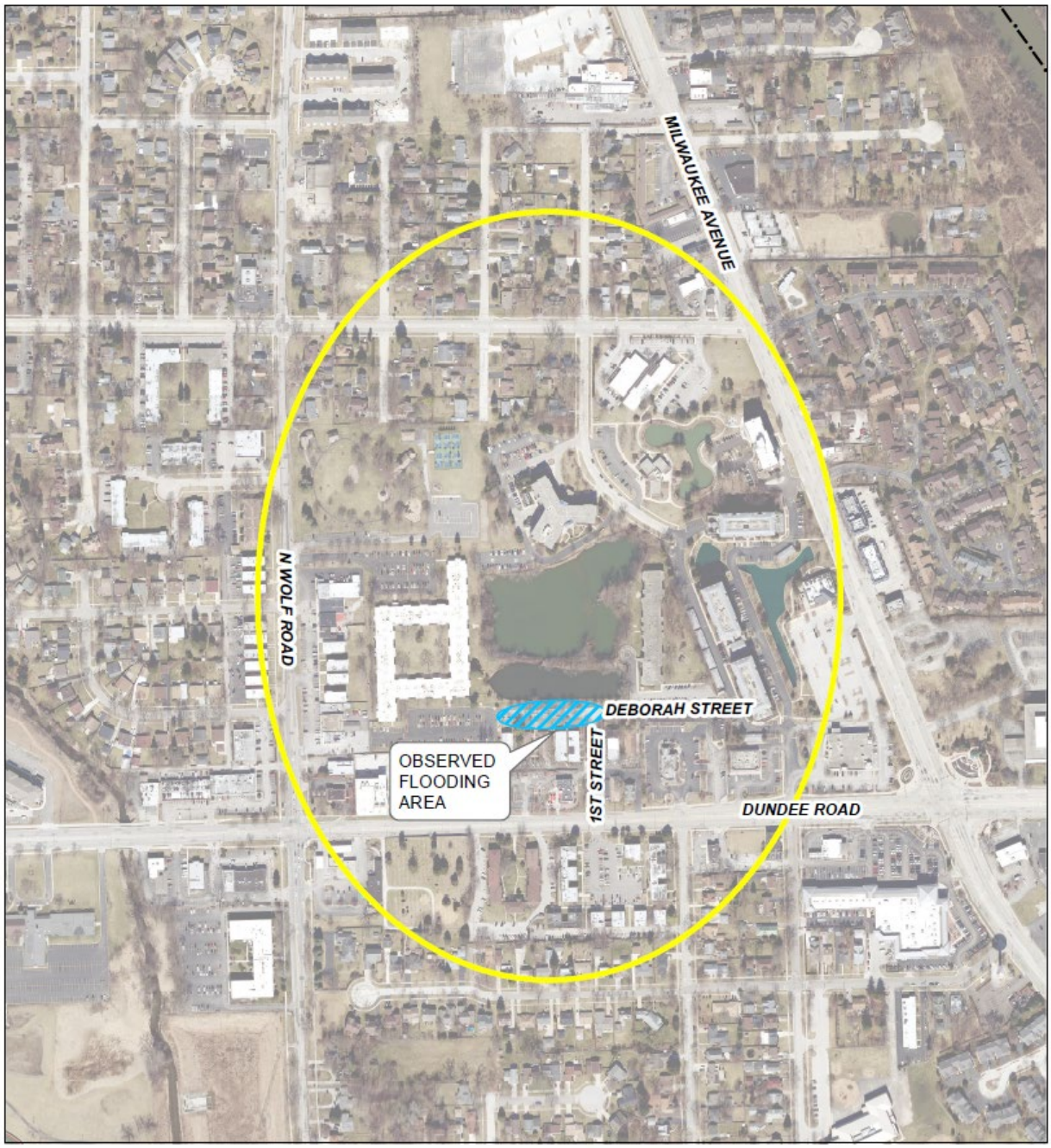


Figure 10. 1st and Deborah Study Area

9.1 1ST STREET & DEBORAH LANE ANALYSIS APPROACH

The 1st Street and Deborah Lane study area was divided into 9 different subbasins with the average subbasin area of 7.1 acres. The average CN is 89, and the average time of concentration of the subbasins is 15.1 minutes. PCSWMM was used to analyze the existing and proposed sewer system to drain the problem areas. Existing sewer data from GIS and plan sets was provided by the Village, and additional survey of this area was conducted. Based on the survey, provided sewer data, and county spatial data, an existing conditions analysis was performed. The critical duration storm was determined to be the 2-hour storm.

9.2 1ST STREET & DEBORAH LANE EXISTING CONDITIONS

The study area generally drains toward the center where the two adjacent retention ponds are located, just north of Deborah Lane. There is a depressional area on the west side of 1st and Deborah, along Deborah Lane, that experiences frequent flooding. Sewers from the different commercial areas drain to the retention ponds. The two ponds are connected through a deteriorated equalizer pipe. Each pond outlets through a pipe. The north pond outlets to an 18-inch pipe flowing northwest. The south pond outlets to an 18-inch pipe that flows north and eventually discharges into the Wolf Road trunkline sewer, as seen in **Exhibit 20**.

After performing the existing conditions analysis, it was shown that there is significant street flooding along Deborah Lane. The 10-year, 2-hour water depth is 0.5 feet and the 100-year, 2-hour peak flood depth is 1 foot. The existing conditions for the 10-year 2-hour storm and 100-year 2-hour storm are shown in **Exhibits 21** and **22**, respectively. The proposed sewer network was designed for the study area based on the 100-year LOS since the overland route to the pond is blocked by high ground.

9.3 1ST STREET & DEBORAH LANE PROPOSED CONDITIONS

The proposed conditions PCSWMM model developed for the 1st Street and Deborah Lane study area is designed so the 100-year storm event runoff can be conveyed within the storm sewers. Storm sewers in the proposed condition were designed to flow in the direction of existing overland flow routes into the retention ponds. Catch basins for the proposed sewer network were designed to collect overland stormwater in the depressional area along Deborah Lane and convey it to the pond.

The proposed improvements include of a new horizontal 14-inch by 23-inch elliptical sewer that drain water from the depressional area on Deborah Lane to the pond. The storm sewer along 1st Street will all connect to a 12-inch pipe that outlets to the pond at the 1st Street and Deborah Lane intersection. Two catch basins at low points in the intersection will also be installed to convey water that drains to the intersection. **Exhibit 23** and **Figure 11** show the proposed storm sewer system improvements.



Figure 11. 1st and Deborah Proposed Storm Sewer Improvements

The proposed 10-year and 100-year inundation maps can be found in **Exhibit 24** and **Exhibit 25**, respectively.

The estimated cost of the proposed project is $266,000.

CHAPTER 10 DUNHURST STUDY AREA

The Dunhurst study area was previously studied in the 2016 SWMP and was reanalyzed in the SWMP Phase 2 with updated Bulletin 75 rainfall. The location of the Dunhurst study area is shown in **Figure 12**. The purpose of the 2016 SWMP was to reduce the likelihood of structure flooding for the critical 100-year flood event with concept improvements. When reanalyzing the Dunhurst study area with Bulletin 75 rainfall the approximate increase in the 100-year WSEL in the various ponding areas was between 0.1 and 0.3 feet compared the lower Bulletin 70 rainfall values. Previously recommended improvement alternatives were reanalyzed and are still provide significant flood reduction benefits.

The Dunhurst subdivision drainage area is generally located south of Dundee Road and west of Wheeling Road. The drainage area at the outlet under the CNRR is approximately 378 acres and is located entirely within the Village limits. There are multiple sewer systems located within the Dunhurst study area that ultimately combine to outlet to Heritage Park through 60-inch and 48-inch reinforced concrete pipes (RCP) under the CNRR. The frequent flooding problems in this study area are located in residential areas and west of Wheeling Road. Residential flooding for this study area is the result of inadequate sewer capacity and lack of overland flow routes during large storm events. The outlet for the drainage area is also subject to tailwater effects from Buffalo Creek, limiting flow out of the system when the creek is high. An XPSWMM model was developed to analyze this study area for existing conditions and the development of improvement alternatives. The Dunhurst Study Area was divided into the following five sub-areas: East Dunhurst, West Dunhurst, South Dunhurst, North Wheeling Road, and South Wheeling Road.

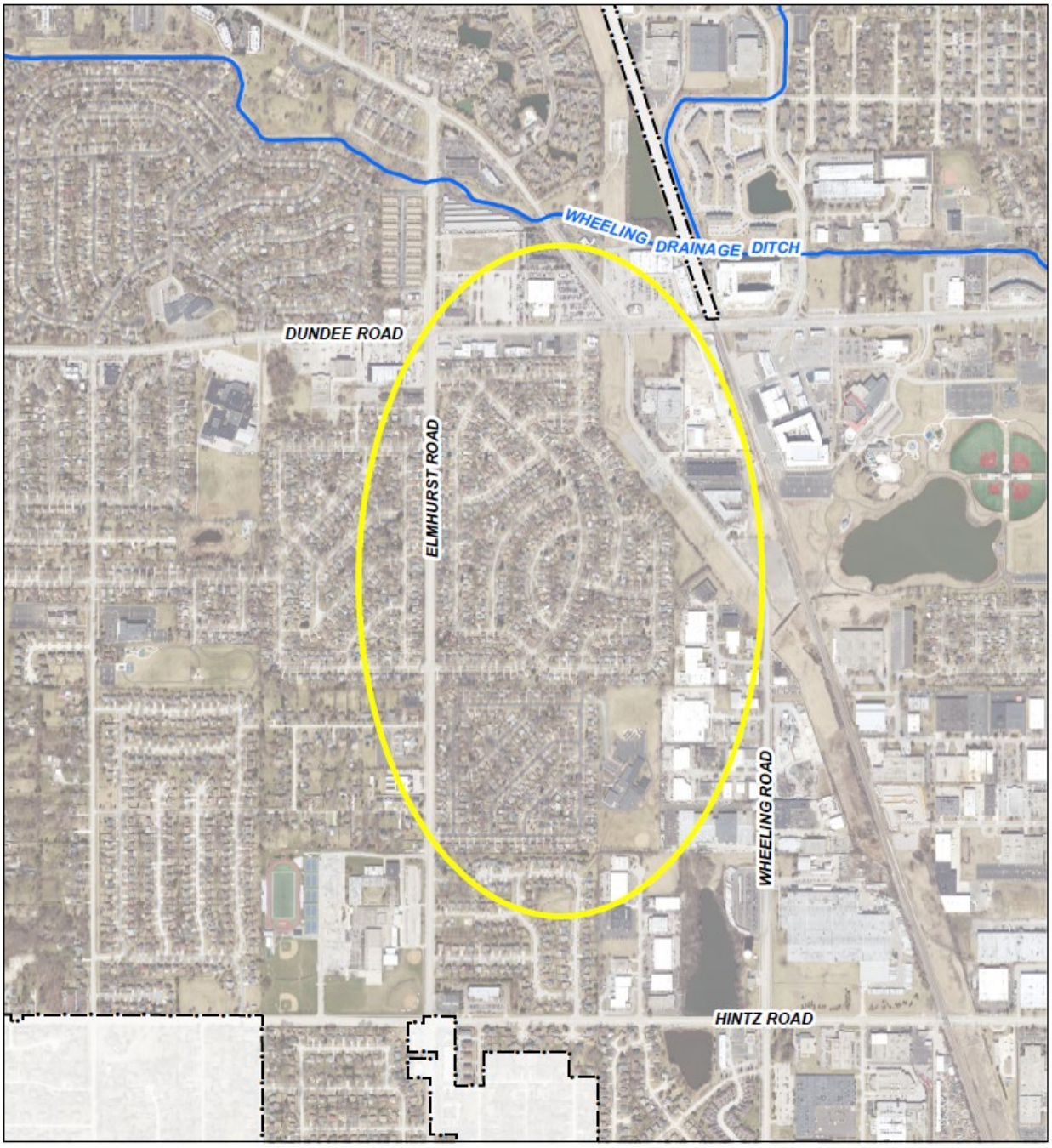


Figure 12. Dunhurst Study Area

10.1 MODELING APPROACH

The Dunhurst study area was analyzed using XPSWMM computer software, which is a proprietary program based on the US Environmental Protection Agency's (EPA) Storm Water Management Model (SWMM). XPSWMM is a dynamic hydrologic and hydraulic modeling program that is ideal for analyzing urban stormwater management systems. XPSWMM simulates rainfall-runoff

responses for user specified storm events (hydrologic component) and analyzes the performance of the stormwater management system (hydraulic component).

The drainage area for the entire study area was broken down into smaller subbasins. 48 subbasins were delineated using the Village's 1-foot aerial topography. The average area for the subbasins is eight acres. A hydrologic map with subbasin delineations and hydrologic parameters is included as **Exhibit 26**.

10.2 DUNHURST EXISTING CONDITIONS

Due to the limited capacity of the existing storm sewer and lack of designated overland flow routes, there are five known flooding locations within the Dunhurst study area. Three flood areas are located within residential neighborhoods and the other two are depressions on Wheeling Road that results in ponding during large storm events. Based on existing conditions modeling, the Dunhurst study area has between the 2- and 5-year storm event level of flood protection. The critical duration for the Dunhurst watershed was determined to be the 2-hour storm event. The 100-year 2-hour event has a rainfall depth of 4.47 inches which is very similar to the July 22-23, 2011 storm event when 4.96 inches of rain fell over 2.5 hours. Village staff agreed that the flooding seen for the July 22-23, 2011 closely matched the existing conditions depicted in **Figure 13** and **Exhibit 27**. The five problem areas within the Dunhurst study area were each analyzed independently. Each is discussed separately below, and at least one improvement was developed to help mitigate flooding in each area.

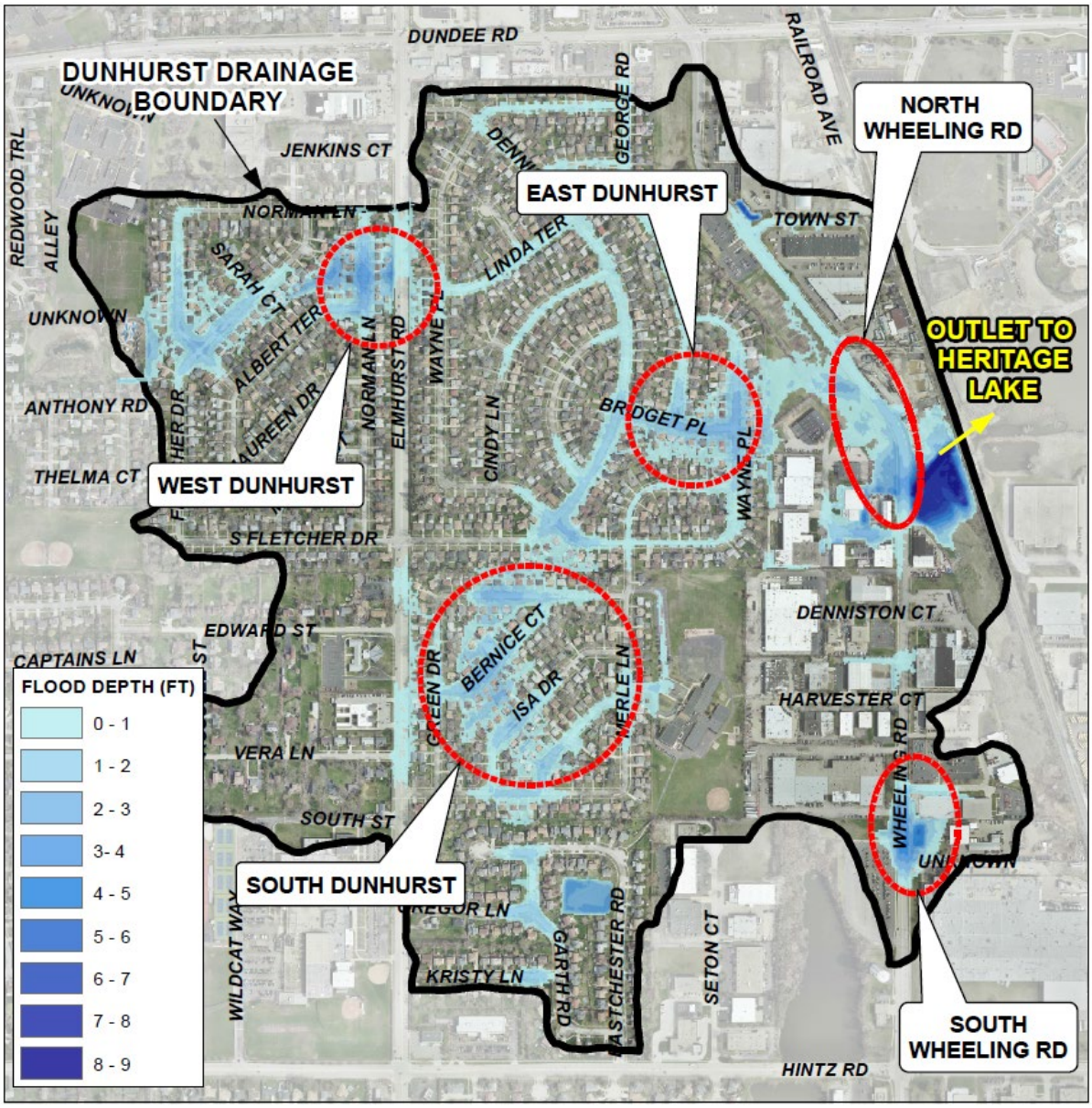


Figure 13. Dunhurst 100-YR Flood Map

10.2.1 East Dunhurst

One of the critical flooding problems in the Dunhurst study area exists at a depression at the intersection of Wayne Place and Bridget Place. A back-pitched 36-inch trunk sewer flows west to east down Bridget Place and continues east through the side yard of two residences along Wayne Place. Once past the residential parcels, the 36-inch sewer enlarges to a 48-inch sewer and flows south, then east and outlets to the ditch on ComEd property on the east side of Wheeling Rd. The ditch then flows to the 2 culvert pipes under the CNRR into Heritage Lake.

From the modeling analysis, the 36-inch storm sewer at Wayne Place surcharges for events greater than and including the 5-year storm. The overland flow route from the Wayne Place flood area is between the houses east of the road as seen in **Figure 14**. The spill crest for the overland flow is approximately 2 feet higher than the catch basin rim elevation along Wayne Place. During the 100-year storm this depression fills to a depth of approximately 3.1 feet at the catch basin, making the road impassable and also risks flooding the nearby residences. There are approximately 31 at-risk residences in the Wayne Place flood area. An "at-risk" structure is defined as having the majority of the structure within the 100-year inundation area as defined by 1-foot aerial topography. For this study, the number of at-risk structures was estimated based only on 1-foot aerial topography. As the Village proceeds with implementing the projects, low entry or first floor elevations can be surveyed as required and compared to the WSEL in the model to make an accurate assessment.

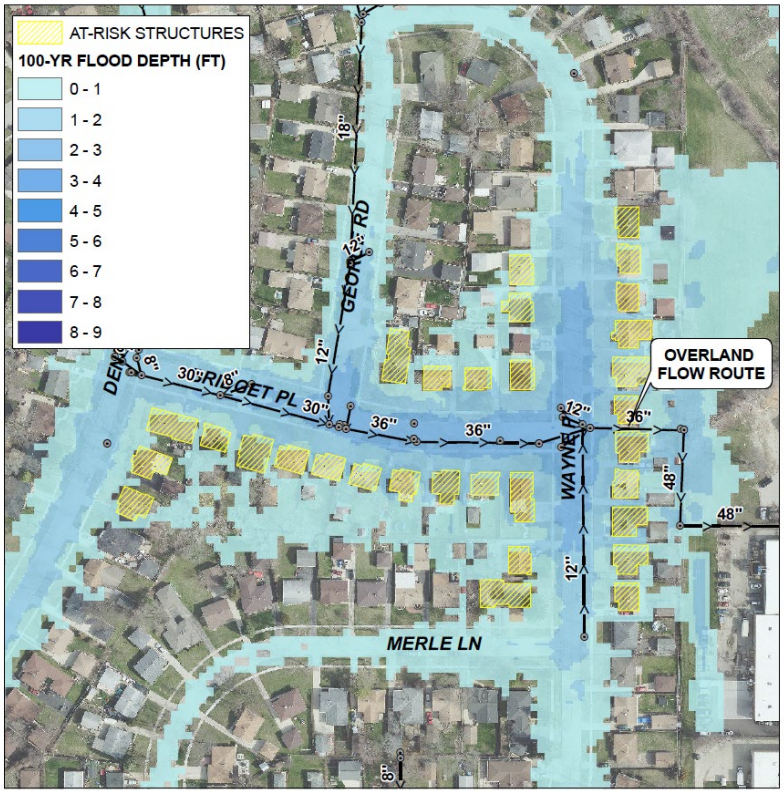


Figure 14. East Dunhurst Flood Problem

Storm sewer conveyance from the Wayne Place depression can also be limited by tailwater effects from Heritage Lake when Buffalo Creek is high. According to the FEMA Flood Insurance Study (FIS) for Cook County, the 10- and 100-year floodplain elevations for Buffalo Creek at Heritage Lake are 640.5 and 642.6, respectively. The catch basin rim elevation draining the depressional flood area on Wayne Place is elevation 642.5. The 10- and 100-year Buffalo Creek tailwater is above the crown of the trunk sewer draining Wayne Place as depicted in **Figure 15**. If local rainfall is occurring during the tailwater condition, the only flow from the problem area is driven by head. Head is the difference between two WSELs that are hydraulically connected.

The Village has made recent storm sewer improvements in East Dunhurst since the original SWMP. One improvement includes high capacity inlets installed at Wayne Place and Bridget Place as documented in a 2018 Village As-Built Plan. A second improvement includes new storm sewer along Merle Lane and Wayne place as documented in a 2020 engineering plan prepared by Haeger Engineering. These improvements provide drainage enhancements for more frequent storm events.

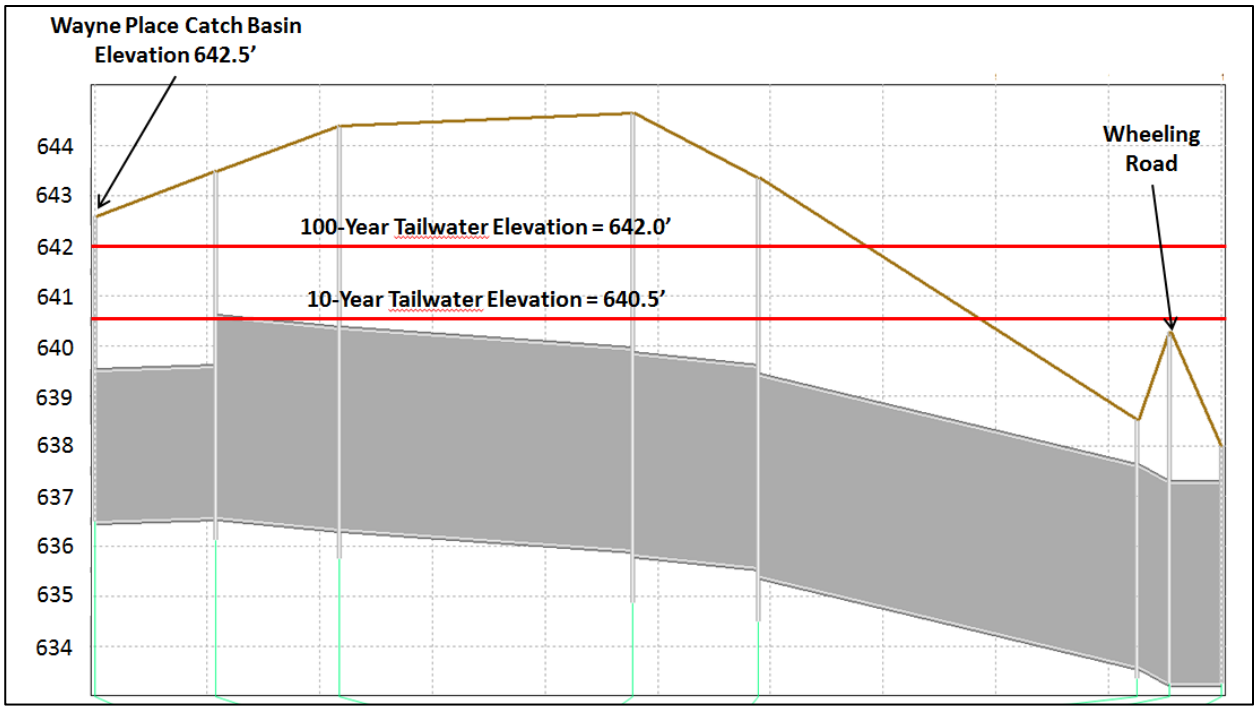


Figure 15. East Dunhurst Trunk Sewer Profile

10.2.2 West Dunhurst

Another area affected by depressional flooding is west of Elmhurst Road along Norman Lane just north of Albert Terrace. A 54-acre drainage area to Elmhurst Road in northwest portion of the Dunhurst watershed drains to the east through a system of storm sewers. The storm sewers in this area drain to a junction on Norman Lane just north of Albert Terrace. From there, the runoff drains to the east between two houses through a single 33-inch storm sewer. During large storm events when the storm sewer exceeds its capacity, water ponds at the depression along Norman Lane as depicted in **Figure 16**. During the 100-year

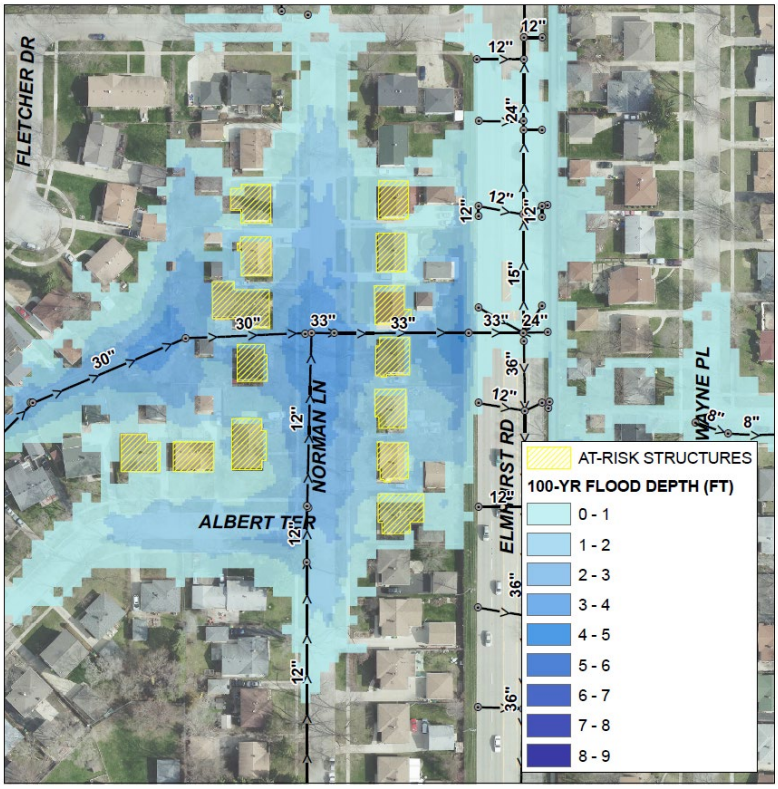


Figure 16. West Dunhurst Flood Problem

critical storm, water overflows to the east between the houses, and ponding depths in the road exceed 3 feet making the road impassible. There are approximately 14residences at-risk of flooding during the 100-year storm event.

A relief sewer was analyzed to address this area in the 2016 SWMP. Due to the remote location of this flood problem area relative to the nearest stormwater outlet, the relief sewer was cost prohibitive relative to the number of homes benefitted.

10.2.3 South Dunhurst

The South Dunhurst problem area consists of depressional flooding locations along Audrey Court, Isa Drive, Bernice Court, and Green Drive. The storm sewer draining the South Dunhurst area runs northwest, perpendicular to the streets with depressional flood areas. The overland flow path for this study area follows the existing sewer alignment, flowing between houses adjacent to the storm sewer as shown on **Figure 17**. In addition to the floodwater generated in the South Dunhurst study area, a 48-inch storm sewer along Elmhurst Road surcharges contributing additional overland flow east to Bernice Court. The 48-inch Elmhurst Road storm sewer is owned by IDOT and flows into a smaller 33-inch storm sewer heading east as seen in **Exhibit 27**. We assume that this storm sewer has been designed to provide storage and limit flow into the Village owned storm sewer flowing west to east through the rear yards. Approximately 27 cfs (100-year, 2-hour) flows into the South Dunhurst problem area from the surcharging IDOT storm sewer contributing the depressional flooding. During the 100-year storm event, depressional flooding in South Dunhurst makes most roads impassable and poses a flood threat to approximately 34 residences.

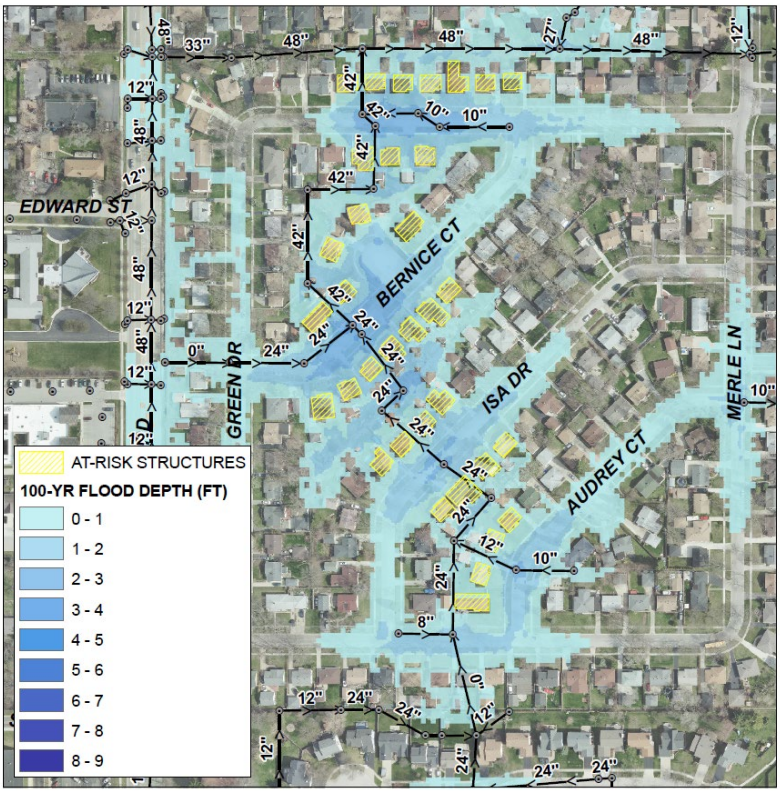


Figure 17. South Dunhurst Flood Problem

10.2.4 North Wheeling Road

There is a sag along Wheeling Road just north of the intersection with Mercantile Ct. The low point along the sag is located in the same area where the 48-inch culvert under Wheeling Road discharges to the open channel, upstream of the railroad crossing. Flooding at this sag can be

caused by two different sources: overland flow from the East Dunhurst study area and tailwater from Heritage Lake. As previously mentioned, Heritage Lake drains to Buffalo Creek through a 60-inch pipe. When Buffalo Creek rises, this hydraulic connection causes Heritage Lake to rise, and in turn, causes a rise in the open channel on ComEd property. The low point in the sag is at elevation 640.3, while the 10- and 100-year WSELs in Buffalo Creek at this location are 640.5 and 642.6, respectively, according to the FEMA FIS. These high tailwater elevations, compounded by local flooding, have resulted in multiple closures of Wheeling Road at this location.

10.2.5 South Wheeling Road

Another sag exists along Wheeling Road just south of Exchange Street. This area drains solely by storm sewer because the bottom of the sag is 5-feet lower than the nearest overflow location. The storm sewer conveys runoff north along Wheeling Road eventually discharging to the open channel adjacent to the North Wheeling Road flood problem. During the 100-year storm, the sewer is limited in its capacity to convey runoff downstream and water ponds at the sag. Results from the XPSWMM model show that flooding can reach 4-feet deep from the lowest point during the 100-year storm. During past large historical storm events, the combination of the North and South Wheeling Road flooding has resulted in the closure of a stretch of 1500-foot roadway between the two areas. **Exhibit 27** shows the extent of flooding at the two Wheeling Road flooding areas.

10.3 DUNHURST PROPOSED CONDITIONS

Improvement projects were developed to address the local flooding at five problem locations by providing a 100-year level of protection. The drainage improvements proposed in the Dunhurst study area consist of: upsizing of existing storm sewers, constructing relief sewers, backflow prevention measures, and creating gravity drained flood storage in open space. The sections below outline the improvement alternatives proposed for each problem area.

10.3.1 Alternative 1 – East Dunhurst Proposed Overflow Outlet

Alternative 1 provides 100-year flood benefits by increasing conveyance from the problem area by providing an overflow outlet. Based on the existing grade along Wayne Place, this alternative requires the buyout of one of five residential parcels to construct the overflow outlet. For storms greater than the 5-year storm event, the overflow outlet will be utilized, providing relief to the existing 36-inch storm sewer currently draining the problem area. The overflow will drain east into a grassed channel for 1,150 feet. The channel is proposed with 3:1 sideslopes to minimize its width on ComEd property. The channel flows east into ComEd property and is collected at a proposed culvert inlet west of Wheeling Rd. **Exhibit 28** shows the proposed layout of Alternative 1 and **Exhibit 29** shows the resultant reduced flood map. The Village will have to obtain permission from ComEd to construct the channel through their property. The 2016 SWMP proposed new culverts under Wheeling Road and the Railroad for enhanced flood reduction

benefits. They are not included in the current concept alternative because there is significant flood reduction benefits with the overland swale alone.

The estimated cost of Alternative 1 is $1.5 million

10.3.2 Alternative 2 – South Dunhurst Proposed Sewer Conveyance and Storage

Alternative 2 provides 100-year flood reduction benefits to the South Dunhurst problem area with a proposed storm sewer system and stormwater storage. Engineering design for this project was completed by Baxter & Woodman, and the project was completed in 2025. Proposed storm sewer sizes for this alternative range from 24-inch pipes at the laterals to a 72-inch pipe discharging into the proposed stormwater storage basin. The stormwater storage displaces most of the flood volume on Bernice Court, Isa Drive, Audrey Court, and Merle Lane.

A restricted 24-inch outlet pipe with a backflow preventer allows the stormwater storage basin to fill to the design High Water Level (HWL) elevation of 645.5, providing 15 acre-feet of storage volume. The existing ground has an average elevation of 649.5 feet, which requires excavation of 5 feet of overburden to the HWL and an additional 6 feet to a flat wetland bottom at elevation 639.0. This improvement provides significant structure and roadway flood relief for the 100-year storm event. A summary of the benefits for this improvement is provided in **Table 5**. **Exhibit 30** shows the proposed improvements and **Exhibit 31** shows the flood reduction provided by Alternative 2.

Table 5. Alternative 2 Summary – South Dunhurst

Street Name	Catch Basin Elevation (FT)	Existing 100-Year HWL Elevation (FT)	Proposed 100-Year HWL Elevation (FT)	Existing 100-Year Flood Depth (FT)	Proposed 100-Year Flood Depth (FT)	WSEL Reduction (FT)
Audrey Court	647.5	650.1	649.3	2.6	1.8	0.8
Isa Drive	647.4	649.8	648.2	2.4	0.8	1.6
Bernice Court	646.3	649.6	646.5	3.3	0.2	3.1
Green Drive	646.4	649.1	646.6	2.7	0.2	2.5
Merle Lane	649.7	651.1	649.7	1.4	0.0	1.4
			Average =	2.5	0.6	1.9

10.3.3 Alternative 3 – As-Built Eastchester Relief Storm Sewer

The Eastchester Relief Storm Sewer was a new project that was developed, designed, and constructed after the 2016 SWMP. Haeger Engineering prepared the engineering design to construct a 30-inch storm sewer starting at the intersection of Hastings Road and Garth Road. The sewer continues east on Garth Road to Eastchester Road where it drains northeast through an easement and then continues east. The storm sewer turns south and drains into Echo Lake. CBBEL modeled this improvement with the Dunhurst XPSWMM model which demonstrates a 100-

year LOS along the project corridor, reducing the flood level 1.7-feet. **Exhibits 32** and **33** show the as-built improvement project and resultant 100-year flood map, respectively.

10.3.4 Alternative 4 – Raise North Wheeling Road

Alternative 4 proposes to raise Wheeling Road 2 feet from the low point just north of Merchantile Court. The proposed limits for raising the road can be seen in **Exhibit 34**. The low point in the sag on North Wheeling Road is elevation 640. Raising the low point in the road 2 feet brings the road up to elevation 642 which is equal to the 100-year tailwater elevation in Buffalo Creek. This improvement provides 1.5 feet of freeboard from the 10-year tailwater elevation of 640.5.

Alternative 4 is recommended because it will allow vehicles, specifically emergency, to utilize on Wheeling Road when Buffalo Creek is high. It is recognized that during unusually large events, only emergency vehicle may be able to use the road.

The estimated cost of Alternative 4 is $2.9 million

10.3.5 Alternative 5 –As-Built South Wheeling Road Proposed Relief Sewer

Alternative 5 was designed by Ciorba Group in 2018 and later constructed to drain the existing flood depression on South Wheeling Road with a relief sewer draining to Echo Lake. The existing storm sewer draining this area to the north remains the primary source of drainage for the depression. The configuration for the Alternative 5 improvement can be seen in **Exhibit 35**.

CHAPTER 11 ECHO LAKE & RIDGEFIELD STUDY AREA

The Echo Lake and Ridgefield study area is the second area from the original SWMP re-analyzed with Bulletin 75 rainfall data using detailed XPSWMM 2D modeling. The study area location is provided in **Figure 18**. A flood and water quality analysis were performed to develop improvement projects for this study area. The drainage area is generally located between Hintz Road and Palatine Road west of Wheeling Road. Drainage in the study area flows from south to north through a system of 4 cascading ponds connected by storm sewers. Due to the storage volume provided in these ponds, the critical storm is 24-hours which is longer than urbanized areas without storage. The higher 24-hour rainfall value results in more runoff volume and a significant increase of approximately 1-foot in peak WSELs when comparing Bulletin 75 to Bulletin 70 rainfall.

Since the original SWMP, these ponds were assessed as part of the Village-wide Pond Evaluation completed in 2024 by CBBEL. A summary of the water quality assessment of the ponds are provided in this Chapter. The most downstream pond in the study area is Echo Lake which ultimately drains to Buffalo Creek through a storm sewer flowing east down Hintz Road. The drainage area to Echo Lake is approximately 982 acres.

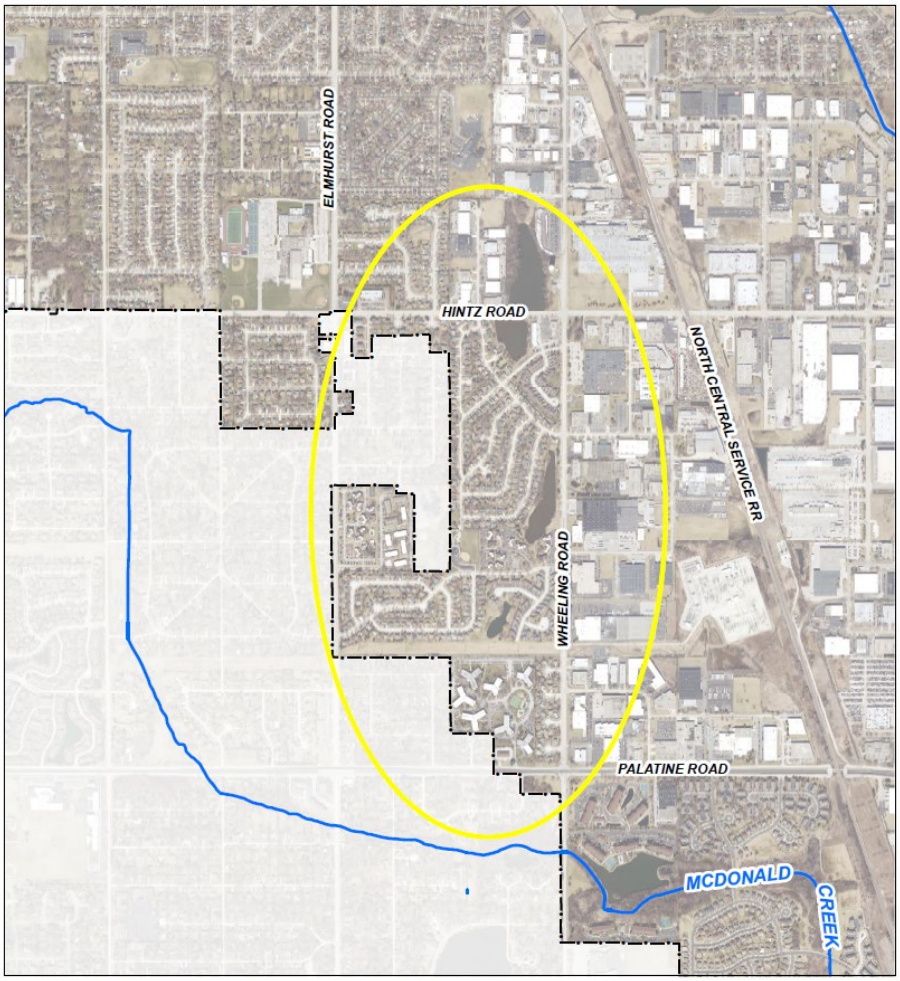


Figure 18. Echo Lake & Ridgefield Study Area

11.1 MODELING APPROACH

The study area used the same modeling approach as the Dunhurst model discussed in Section 10.1. An additional component used to create the Echo Lake and Ridgefield model was as-built sewer plans for different subdivisions in the study area including:

- Ridgefield Subdivision
- Ridgefield Lanes Subdivision
- Polo Run Subdivision

The study area for this model was broken down into 83 subbasins with an average subbasin area of 5 acres (**Exhibit 36**). As seen in **Figure 19**, a large 561 acre tributary area to the west drains to Echo Lake. This tributary area was accounted for using an inflow hydrograph generated from the Jackson Drive and Lakeside Villas modeling. The model was calibrated based on high water marks provided by the Village at the 4 ponds for the September 13-14, 2008 storm event. The model was calibrated within 0.2 feet of the surveyed high water marks within each of the 4 ponds as seen in **Table 6**. The critical duration for the Echo Lake and Ridgefield study area is the 24-hour storm.

Table 6. Calibration Summary – Echo Lake & Ridgefield Study Area

Pond	September 13-14, 2008 Storm		
	Surveyed High Water Mark (FT)	Modeled High Water Mark XPSWMM (FT)	Difference (FT)
Polo Run	653.46	653.65	0.19
South Ridgefield	649.63	649.53	-0.10
North Ridgefield	647.55	647.59	0.04
Echo Lake	643.46	643.32	-0.14

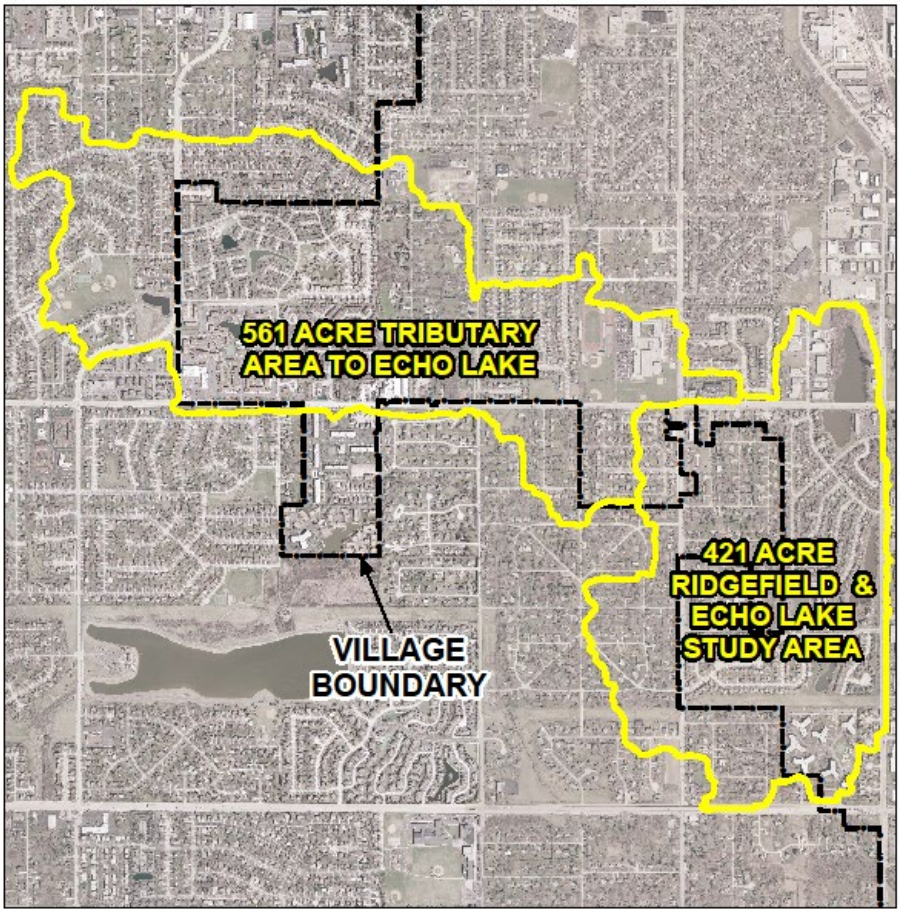


Figure 19. Echo Lake Drainage Area

11.2 ECHO LAKE & RIDGEFIELD EXISTING CONDITIONS

The Echo Lake and Ridgefield study area was analyzed with XPSWMM. The southernmost portion of the study area is the Sandpebble Apartments at the northwest corner of Wheeling Road and Palatine Road. Storm sewers collect runoff from the apartment property and direct the flow to a parking lot on the north end of the property. During large storm events water collects in a low-lying area in the parking lot and the grassed area to the south. Water has ponded high enough to damage vehicles in the parking lot. The elevation at the storm manhole in the depression is 650.2 and the average elevation of the low parking spaces is 650.5. The results of the XPSWMM modeling show the 10-year elevation to be 653.3 and the 100-year elevation to be 653.9. The depression drains to Polo Run Pond to the north through a 21-inch storm sewer. During the 100-year storm, floodwater ponds high enough to overflow the depression and drain north through the ComEd ROW into the Polo Run Subdivision Pond causing a level pool between the two storage areas as seen in **Figure 20** and **Exhibit 37**. The Polo Run Pond has a NWL elevation of 647 and fills to elevation 653.3 for the 100-year storm. There is another low-lying depression just north of the Polo Run Pond along Bridle Trail that floods during the 100-year storm event. The elevation at the storm manhole in this depression is 650.2. In past storm events, cars in the south parking lots along Bridle Trail have been damaged by floodwater. **Table 7** below provides a summary of the flooding problems in the Sandpebble and Polo Run properties.

Table 7. Existing Conditions Summary – Echo Lake & Ridgefield Study Area

Problem Area	Low Storm Manhole Elevation (FT)	10-YR Flood Elevation (FT)	100-YR Flood Elevation (FT)	10-YR Flood Depth (FT)	100-YR Flood Depth (FT)
Sandpebble Parking Lot	650.2	653.3	653.9	3.1	3.7
Polo Run Subdivision (Bridle Trail)	650.2	653.3	653.9	3.1	3.7

As stormwater moves north through the system, flooding problems are generally limited to minor street flooding. A storm sewer drains from the Polo Run Pond into the South Ridgefield Pond along Wheeling Rd. The South Ridgefield Pond has a NWL elevation of 643.4 and fills to a HWL elevation of 652.8. The sewer system continues north draining into the North Wheeling Pond. This pond has a NWL elevation at 641.9 and reaches a HWL of 648.9. The final pond in the system is Echo Lake with a NWL elevation at 639 and a HWL of 643.8.

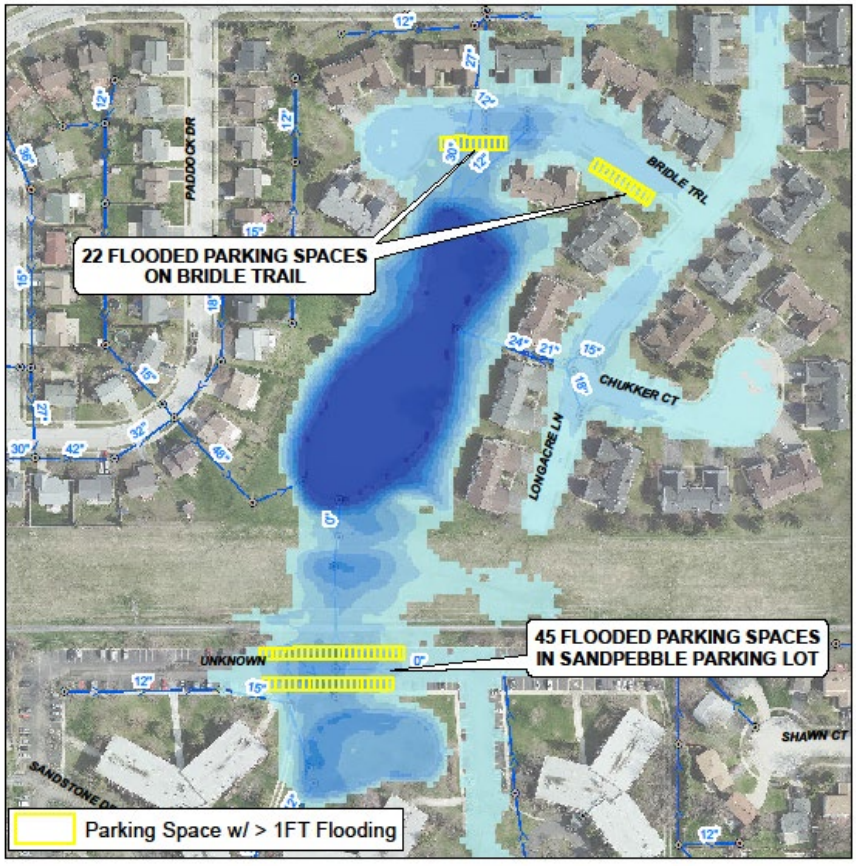


Figure 20. Sandpebble & Bridle Trail Flood Problem (100 Year Storm)

11.3 ALTERNATIVE 6 – ECHO LAKE & RIDGEFIELD SOUTH FLOOD STORAGE AND CONVEYANCE IMPROVEMENTS

Alternative 6 proposes additional flood storage and conveyance to divert floodwater away from the depressional flooding area along Bridle Trail and the Sandpebble parking lot for the 10-year storm event. The objective of this alternative is to reduce flooding depths to below 1-foot. Based on the existing condition modeling, the 21-inch storm sewer flowing south between the parking lot and Polo Run Pond is inadequate to convey the 10-year storm. Additionally, the 10-year storm WSEL in Polo Run Pond is approximately 1-foot higher than the low point in the parking lot depression, therefore upsizing the 21-inch storm sewer to increase conveyance will not mitigate the flooding problem. Additional storage must be provided to lower the HWL in Polo Run, in addition to increasing conveyance from the parking lot to Polo Run Pond.

Additional storage for this alternative is provided in two locations: the grassed area south of the Sandpebble parking lot and within the existing Polo Run Pond. The proposed flood storage south of the parking lot would provide 2.2 acre-feet of storage volume. The NWL in Polo Run Pond will be lowered 3.2 feet from the existing NWL elevation of 647 to a proposed NWL elevation of 644. Lowering the NWL along with minor grading along the shoreline produces 5.4 acre-feet of additional flood storage volume. Because the lower NWL will result in a shallower pond depth, dredging or conversion of the pond to a dry bottom basin will be required. The total storage volume provided for this alternative is 8.6 acre-feet. To lower the NWL in Polo Run Pond, a proposed 12-inch storm sewer is required to drain from the north end of the pond at elevation 644. The proposed storm sewer will drain directly into the South Ridgefield Pond with an outlet invert elevation of 643.5. **Exhibit 38** shows the improvements proposed in Alternative 6.

The Sandpebble Pond collects runoff from the southern portion of the watershed and conveys it north through a 36-inch storm sewer. Additional catch basins are proposed at the parking lot depression to tie into the 36-inch storm sewer as it continues north to Polo Run Pond. The benefit of the proposed improvement is a 1.7 foot reduction in WSEL in the Sandpebble parking and along Bridle Trail for the 10-year storm event. As seen in **Exhibit 39**, there are minimal flood reduction benefits with this Alternative for the 100-year storm. A summary of the proposed conditions for Alternative 6 is provided in **Table 8**.

Table 8. Alternative 6 Proposed Conditions Summary – Echo Lake & Ridgefield Study Area

Problem Area	Existing 10-Year Flood Depth (FT)	Proposed 10-Year Flood Depth (FT)	Flood Depth Reduction (FT)
Sandpebble Parking Lot	3.1	2.1	1.0
Polo Run Subdivision (Bridle Trail)	3.1	2.1	1.0

The estimated cost of Alternative 6 is $3.5 million.

11.4 ALTERNATIVE 7 – ECHO LAKE & RIDGEFIELD COMPREHENSIVE FLOOD STORAGE AND CONEYANCE IMPROVEMENTS

Alternative 7 proposes to lower the NWL of the 4 interconnected ponds to create additional flood storage. The objective of this alternative is to provide a 100-year flood improvement at the problem areas while providing water quality benefits with pond bank stabilization. The proposed water quality improvements associated with Alternative 7 are discussed in Section 11.8. To lower the NWL in all the ponds, new storm sewers connecting the ponds must replace the existing storm sewers to drain the ponds at a lower elevation. **Exhibit 40** shows the improvements proposed as part of Alternative 7.

The first proposed stormwater storage basin is provided in the grassed area south of the Sandpebble parking lot depression. The proposed Sandpebble stormwater basin requires excavation of 6.5 feet from the existing ground to create 2.4 acre-feet of storage volume. A 36-inch pipe drains north from the pond and collects floodwater from the parking lot depression. From the parking lot, a 48-inch pipe drains north into the Polo Run Pond. The Polo Run Pond will be lowered 4.2 feet from the existing NWL with minor grading proposed along the pond banks providing 6.8 acre-feet of additional storage volume. Since there is a significant reduction of the NWL in the Polo Run Pond with the proposed condition, it is recommended to convert this pond to either a dry- or wetland bottom pond.

A proposed 48-inch pipe drains north from the Polo Run Pond and increases to a 54-inch at Equestrian Drive draining into the South Ridgefield Pond. The South Ridgefield Pond is proposed to be lowered 1.4 feet creating 5.2 acre-feet of additional storage. A proposed 27-inch pipe drains north from South Ridgefield Pond and increases to a 36-inch pipe at Willowbrook Lane. The 36-inch pipe flows northwest through the residential rear yards, replacing the existing 36-inch storm sewer. When the proposed pipe reaches Weeping Willow Drive, a 42-inch storm sewer is proposed to drain northeast into North Ridgefield Pond. The North Ridgefield pond will be lowered 1.9 feet creating 5.5 acre-feet of additional storage. Water quality improvements are proposed in Section 11.8 to address the shallow Ridgefield pond depths that will result from lowering the NWL. A summary of all pond improvement for Alternative 7 is provided in **Table 9**.

As seen in **Exhibit 41**, Alternative 7 provides significant flood benefits in the two problem areas identified in the study area. At the Sandpebble Parking Lot, the 10- and 100-year flood reductions are 5.9 feet and 1.7 feet, respectively. These reductions nearly eliminate parking lot flooding for the 10-year event and reduce the flooding depth along all impacted parking spaces for the 100-year storm. Similarly, the 10- and 100-year flood reductions at Bridle Trail are 5.9 feet and 1.7 feet, respectively.

Table 9. Alternative 7 Proposed Conditions Summary – Echo Lake & Ridgefield Study Area

Pond	Additional Storage Volume (AC-FT)	Existing NWL Elevation (FT)	Proposed NWL Elevation (FT)	Existing 100-YR HWL Elevation (FT)	Proposed 100-YR HWL Elevation (FT)	100-YR WSEL Reduction (FT)
Sandpebble	2.4	650.0	643.5	654.0	652.3	1.7
Polo Run	6.8	647.2	643.0	653.9	652.2	1.7
South Ridgefield	5.2	643.4	642.0	652.8	651.9	0.9
North Ridgefield	5.5	641.9	640.0	649.0	649.0	0.0
Echo Lake	0.0	639.0	639.0	644.3	643.1	1.2

The estimated cost of Alternative 7 is $10.4 million

11.5 ECHO LAKE & RIDGEFIELD 2024 CBBEL WATER QUALITY ASSESSMENT

In 2024, CBBEL inspected and assessed nearly all the public and private ponds throughout the Village. **Table 10** relates the pond names from this SWMP to IDs from the 2014 Pond Assessment and provides the pond evaluation score indicating the severity of degradation as described in the subsequent section.

Table 10. Echo Lake & Ridgefield Study Area 2024 Pond Assessment Summary

Pond	2024 Pond Assessment Pond ID	Existing NWL Elevation (FT)
Sandpebble	P1	1
Polo Run	M8	1
South Ridgefield	M2	3
North Ridgefield	M1	5
Echo Lake	I8	3

For this evaluation a score of 5 is the highest priority for maintenance and have critical or severe issues that require immediate attention (i.e., public safety concern, excessive vegetation overgrowth and sedimentation).

Ponds ranked 4 should receive maintenance soon, or within the next 3 years. These ponds have issues that require attention, but the issues are not critical.

Ponds ranked 3 have moderate active issues and should be maintained after 4's, or monitored bi-annually to check if the conditions warrant a higher classification.

Ponds ranked 2 have minor active issues which do not require immediate maintenance but should be evaluated periodically to re-evaluate their status. Lastly, ponds ranked 1 have the lowest priority for maintenance but should also be monitored periodically to update their status.

11.6 ECHO LAKE & RIDGEFIELD TOBERMAN WATER QUALITY ANALYSIS AND IMPROVEMENT PROJECT

In 2011, the engineering firm, Norman J. Toberman & Associates, LLC (Toberman) performed an analysis to address the water quality and existing aesthetics in the two Ridgefield Ponds on behalf of the Ridgefield Homeowners Association. This section summarizes the findings and recommendations in the Toberman Report: *Project Report for Proposed Ridgefield Shoreline & Pond Improvements*. In the report, Toberman proposes to maintain the existing permitted storage requirements within both ponds and does not propose any flood reduction improvements.

According to the report, the ponds were constructed in 1984 with an average depth of 5-7 feet and average 3:1 bank slope. The ponds are located within historical flood prone areas and were required to maintain existing floodplain storage and provide additional retention volume for the Ridgefield Subdivision. Currently, the shorelines for both ponds have small, poor quality trees and brush, and homes along the west shoreline have manicured grass up to the ponds' edge. The ponds' edge is heavily eroded and nearly vertical in some locations. Tobermann attributes this erosion to residential sump discharge pipes, buried storm sewer pipes and animal related burrow holes.

The eroded banks have become a major source of water quality concerns and siltation in both ponds. Siltation has led to shallow pond depths that increase water turbidity, temperature fluctuation, and lowers dissolved oxygen content. This environment promotes weed growth and algae blooms and an overall poorly functioning aquatic environment. The weeds can die and create for a potential storm sewer obstruction and/or ongoing maintenance problem.

As is the case with many residential ponds, surface runoff contributes contaminants to the ponds such as oils, grease, lawn fertilizers, road salts, etc. The siltation and contaminant deposition has caused a 1.5 to 2.5 foot loss in average pond depth from the original construction. According to a 1999 Rust Environmental Study for the ponds, from 1984 to 1999 the ponds lost 58% of their water volume below the normal water level due to siltation from eroded banks.

Toberman concluded that the best way to improve water quality and to avoid dredging due to the high cost was through native plantings to promote bank stabilization. The report recommends the bank stabilization through use of Filtrexx Soxx, a media used to establish native plant growth along the highly eroded shorelines. Along with stabilizing the pond banks, the Filtrexx Soxx with native planting will act as a buffer to prevent sediments from entering the ponds as it occurs today. Toberman states that it is not necessary for either pond to be completely dredged at this

time since the water depth appears to be adequate to discourage plant bottom nuisance and has not shown further degradation over the past 13 years.

The Toberman improvement project is not recommended because, by itself, it does not provide flood benefits for the Echo Lake & Ridgefield study area.

The estimated cost of the Toberman improvement project was $1,045,000 in 2011.

11.7 ECHO LAKE & RIDGEFIELD 2014 EVALUATION

As discussed in Section 11.6, Toberman completed, on behalf of the Ridgefield Homeowners Association, a detailed pond depth and shoreline erosion study along with plans and details describing recommended approaches to shoreline stabilization. The Toberman plans were prepared based on the assumption that the pond NWLs would not be modified.

The Toberman plans, dated 11/21/11 (32 pages), were evaluated to determine if they would be appropriate for use based on the proposed NWL lowering. It was determined that the plans would require modification to be compatible with the proposed NWL lowering.

The Toberman plans offer two types of stabilization practices, a hardscape/riprap solution, and a softscape/native planting solution. If the softscape solution were to be pursued in the event the pond's NWL is not lowered, it is suggested that consideration be given to the steepness of the slopes proposed in relation to the life of the Filltrexx sock product, and to concerns regarding water quality and freeze thaw action discussed in more detail below. It is suggested to revisit the design prior to implementation to ensure longevity of the softscape installation.

As pointed out by Toberman, the shorelines of the ponds are eroded and nearly vertical in a number of locations. It is important to understand the processes which cause the bank failures to occur. Based on the available information, the shorelines of the ponds were originally graded to 3:1 to 4:1 slopes. The slopes were established with lawn grass and routinely mown. Lawn grass does not have a deep root system and will generally not provide sufficient protection of the shoreline from erosion. However, if the slopes were less steep, the lawn grass would be less likely to fail. One issue, that is in many cases over looked, is the quality of the water that is present which can have a significant impact on the ability for vegetation to establish and thrive. It is likely, given the urban nature of this area, that the pond water has high chloride (salt) concentrations from winter deicing. Lawn grass is generally not tolerant of high salt concentrations, and when combined with frequent inundation, steep slopes, freeze-thaw and fluctuating water levels it is understandable why the bank failures occurred. The lawn grass dies and erosion of the toe of slope begins. As the bare earth face grows taller, larger cleavages of soil occur, accelerating mass wasting.

In winter, during rain or snow melt, water levels rise in the ponds. The adjoining soil becomes saturated. If water levels drop and the ground freezes, significant mass wasting can occur. Native plant communities typically have much deeper root systems which help to bind the soil to

overcome these erosive actions. Lawn grass and bare soil provide essentially no protection from significant erosion during these events. The next section discusses two options for Ridgefield Pond shoreline stabilization to be completed in conjunction with the Alternative 7 flood improvement project.

11.8 ECHO LAKE & RIDGEFIELD PROPOSED WATER QUALITY IMPROVEMENTS

As documented by Toberman the ponds are fairly shallow due to sedimentation. The ponds average depth is about 3.5 feet deep. Lowering the NWL by 2 feet in each pond will result in a water depth of about 1.5 feet. This depth is problematic. The depth is too deep to establish wetland vegetation, too shallow to support fish, will likely have poor water quality and be prone to algal blooms.

This situation would not affect the flood control benefits, but would likely result in an unacceptable appearance. Consequently the flood control improvements proposed in Alternative 7 are not proposed to occur without mitigation to improve the shorelines. The following describes the recommended mitigation alternatives to compliment Alternative 7. We understand that the a shoreline stabilization project was completed on the north Ridgefield Pond in 2016, however a recent CBBEL inspection in 2023 identified the pond as being severely eroded.

11.8.1 Alternative 7A

As shown in **Figure 21**, Alternative 7A consists of filling in the eroded portions of the bank with soil. The material would be placed at a 4:1 slope down to the NWL. At the NWL, a 5 to 8 foot wide planting wetland shelf would be constructed. The wetland planting shelf and side slope would be planted with native vegetation to minimize the risk of future erosion. A portion of each pond would be excavated to create an open water area, and the depth of the excavation would vary. The goal is to balance the excavation and grading within the pond to prevent the need for offsite disposal. The excavated material would be used as the backfill to fill in the eroded shoreline and to create the wetland planting shelf. This typical cross section has been used at a number of other project sites, in urban areas and has been successful. The native plantings to be installed would be salt tolerant species.

The native vegetation would be established through the installation of seed on the side slopes and seed and live plants on the wetland shelf. The side slopes would be covered with erosion control blanket. The shelf can be hydro-mulched.

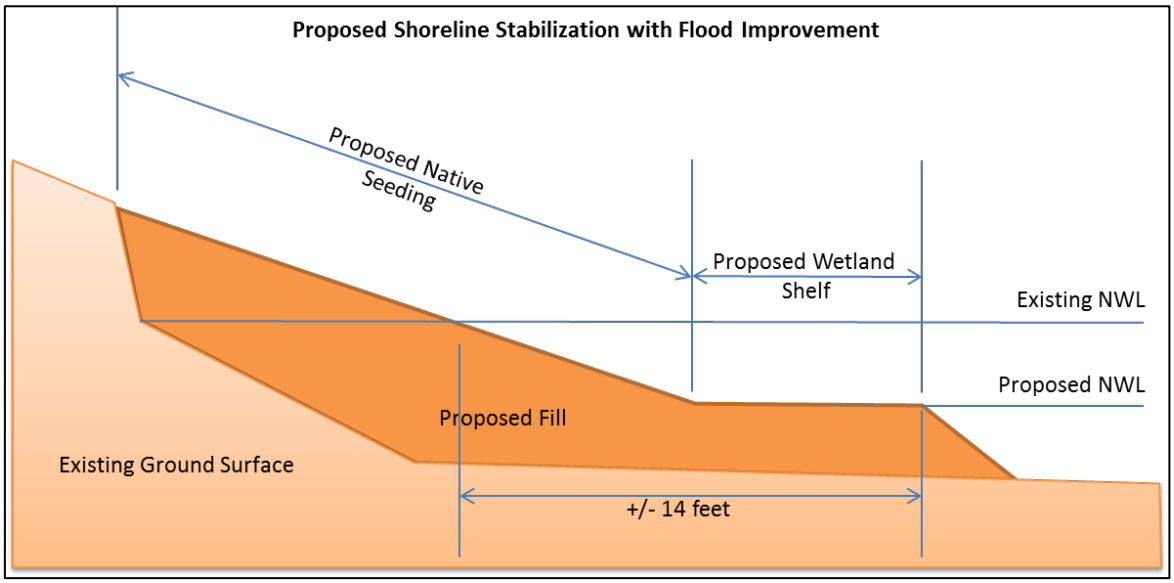


Figure 21. Alternative 7A Bank Stabilization Schematic

For this alternative to have long term success, the property managers of the ponds would have to agree that the areas with native seeding and the wetland shelf would not be mowed and would require additional maintenance for the foreseeable future.

11.8.2 Alternative 7B

If a wetland shelf is not acceptable to the adjoining residents, it is recommended to use riprap for shore protection. Dredging a deeper open water area in the pond would also be recommended however; in this case the spoil material would have to be disposed of offsite. The Phase 1 – Option A: Typical Riprap Bank Stabilization Detail provided in the Toberman plans would be representative of the recommended riprap treatment. A screen capture of the detail is provided below **Figure 22**.

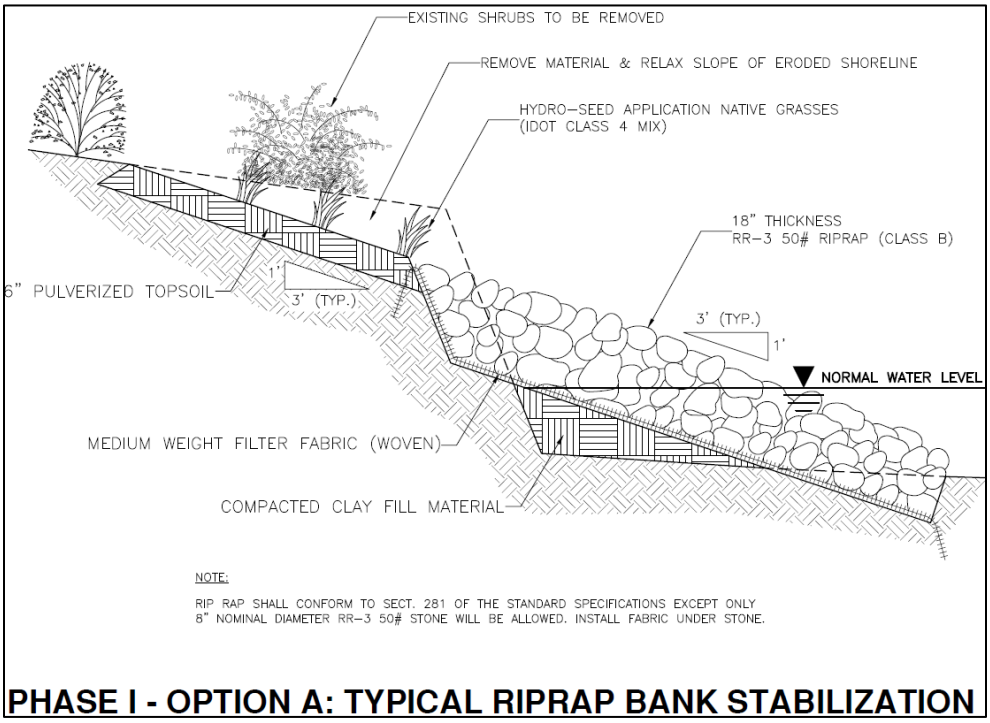


Figure 22. Alternative 7A Bank Stabilization Schematic

CHAPTER 12 PRIVATE PROPERTY DRAINAGE ISSUES

There are several areas within the Orchard Lake subdivision that have reported repetitive rear yard flooding. This subdivision is located south of Hintz Road and west of Elmhurst Road, just along the Village boundary (**Figure 23**).

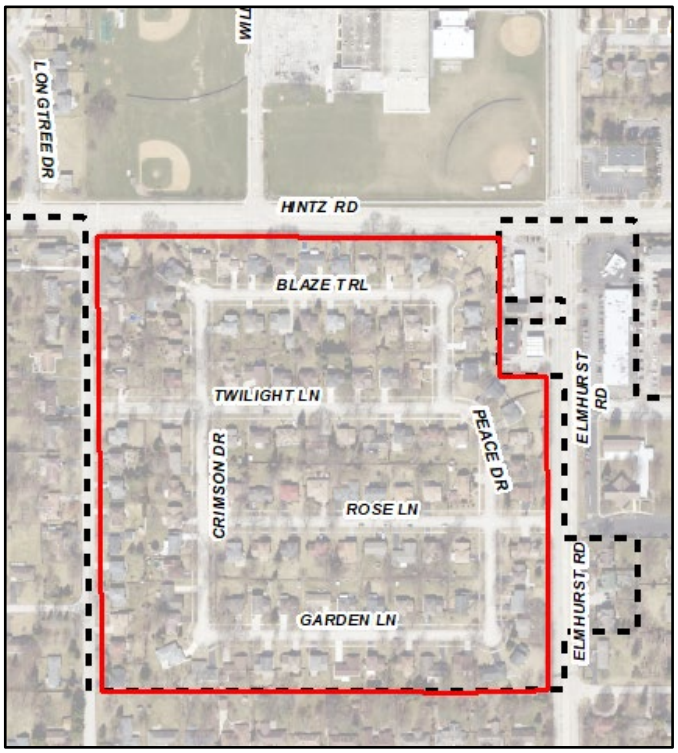


Figure 23. Private Property Drainage Issues Area – Orchard Lake

Based on a high-level assessment of the Cook County 1-foot contours, there are several potential ponding areas in the rear yards of the houses along Garden Lane and Rose Lane. Based on the storm sewer data received from the Village, there are no storm sewers along the rear yards of any houses within the subdivision and therefore drainage relies on overland flow to convey stormwater. It is recommended that overland flow paths have a 1% slope at minimum for adequate drainage. The rear yards of the houses between Twilight Lane and Rose Lane have a slope of about 0.4%. The rear yards of the houses between Rose Lane and Garden Lane have a slope of approximately 0.2%. **Figure 24** shows the 1-foot contours of the potential ponding areas.

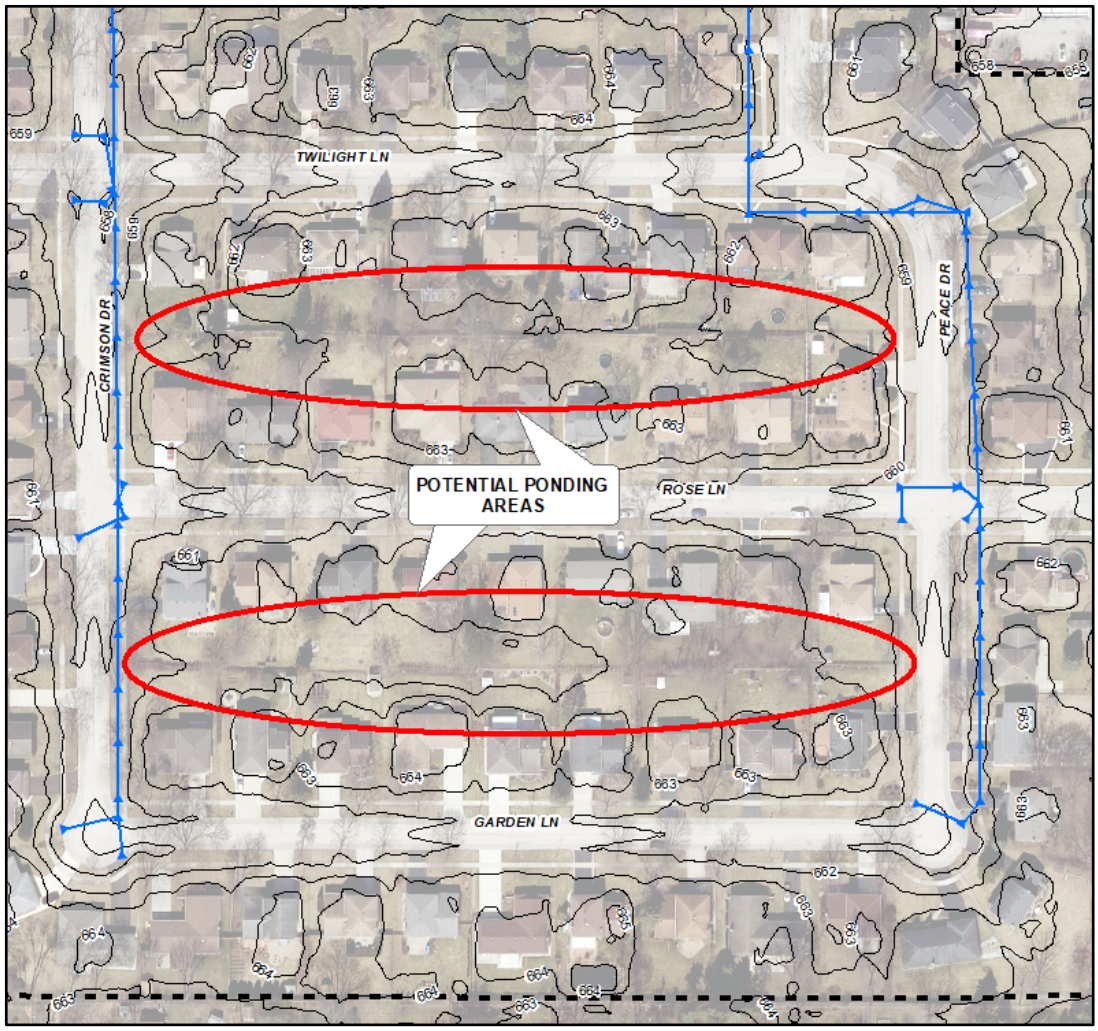


Figure 24. Orchard Lake Potential Ponding Area

To address these issues, it is recommended to install small drainpipes with inlets approximately every 2 backyards, or 200 feet along low points that could be regraded in the rear yards. The drainpipes should then tie into the existing sewer system along Crimson Drive or Peace Drive. A topographic survey of the area is also recommended as the aerial topography is not adequate for detailed design. These improvements will have to be constructed on private property which poses constraints to consider: utilities, easements, fencing, access, landscaping, and sheds.

If this project is pursued, the Village Board will need to determine what level of Village involvement they want to pursue, if any. Some communities leave it up to the homeowners to design, permit, fund, and manage these improvements while others help financially or with the design. There are three general options to determine the scope of both public and private entities when constructing on private property:

1. Completely private project. Homeowners are responsible for design, required permitting, funding, contracting, and management of the project.

2. A hybrid public/private project. The Village completes a conceptual design of improvements, but the homeowner is responsible for funding, permitting, hiring contractors, etc.
3. A hybrid public/private project. The Village completes a conceptual design of improvements and cost shares with the homeowner in the construction of the project.

CHAPTER 13 HOLLYWOOD RIDGE DRAINAGE ISSUES

Hollywood Ridge is a subdivision within the Village north of Dundee Road, west of Elmhurst Road, and south of McHenry Road that experiences flooding. This area drains to Buffalo Creek through 4 main outfalls shown on **Figure 25.**

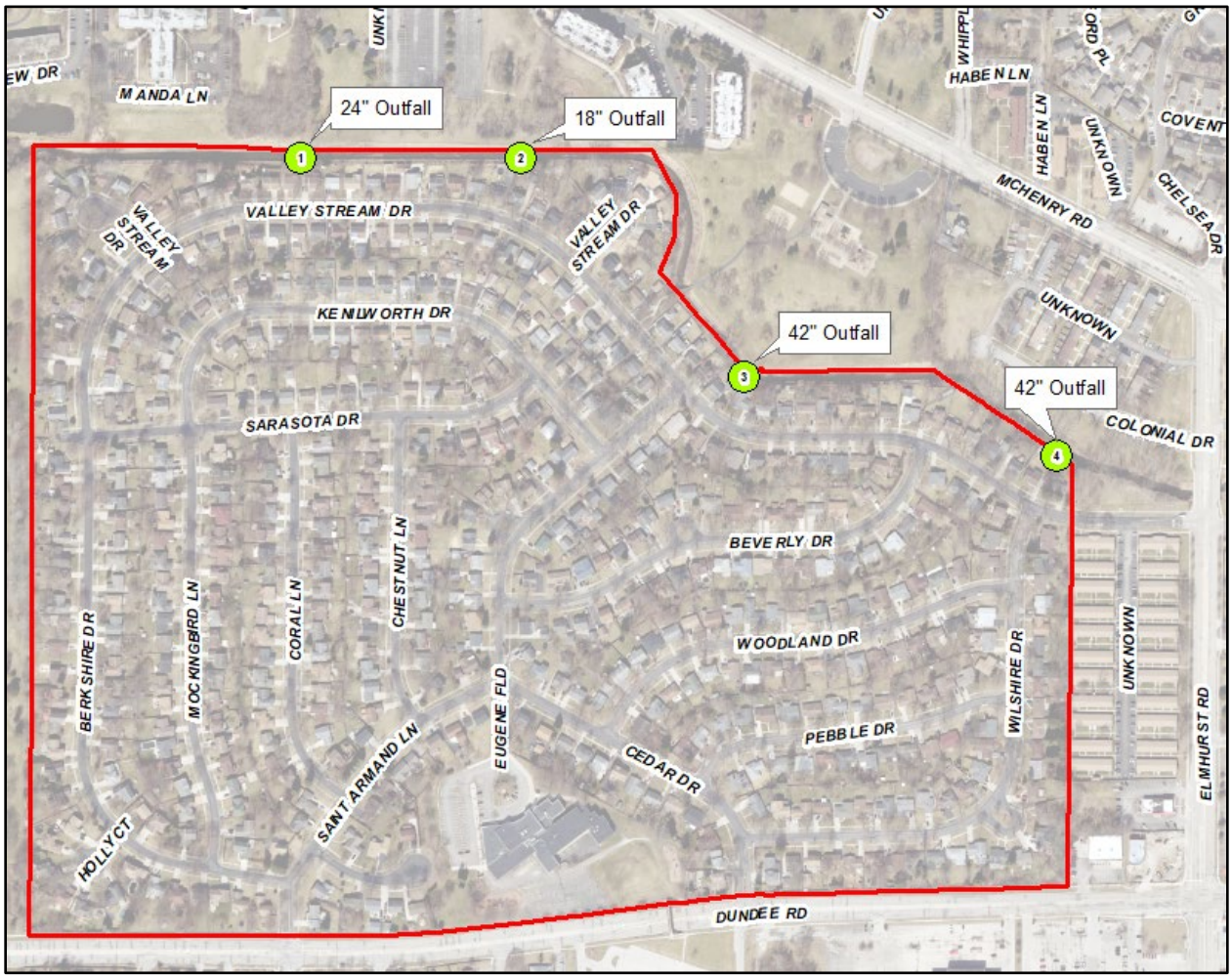


Figure 25. Hollywood Ridge Outfalls

A high-level study was done for this area since there is reported street flooding. The Manning's Pressure Flow Equation was used to determine the maximum flow capacity of each outfall with 2 feet of pressure head. **Table 11** shows the existing outfall size and capacity at the four locations.

Table 11. Hollywood Ridge Outfall Capacity

Outfall Diameter (in)	Outfall Length (ft)	Maximum Flow Capacity (cfs)
24	135	19
18	175	9
42	150	69
42	150	69

Next, the Rational Method was used to determine the peak flowrate to each outfall. The drainage area to each outfall was delineated based on the 1-foot contours and storm sewer data from the Village (**Figure 26**). The drainage area is mostly residential area, so a C coefficient of 0.65 was assumed for all four areas. The time of concentration was assumed to be 0.5 hours for each area.

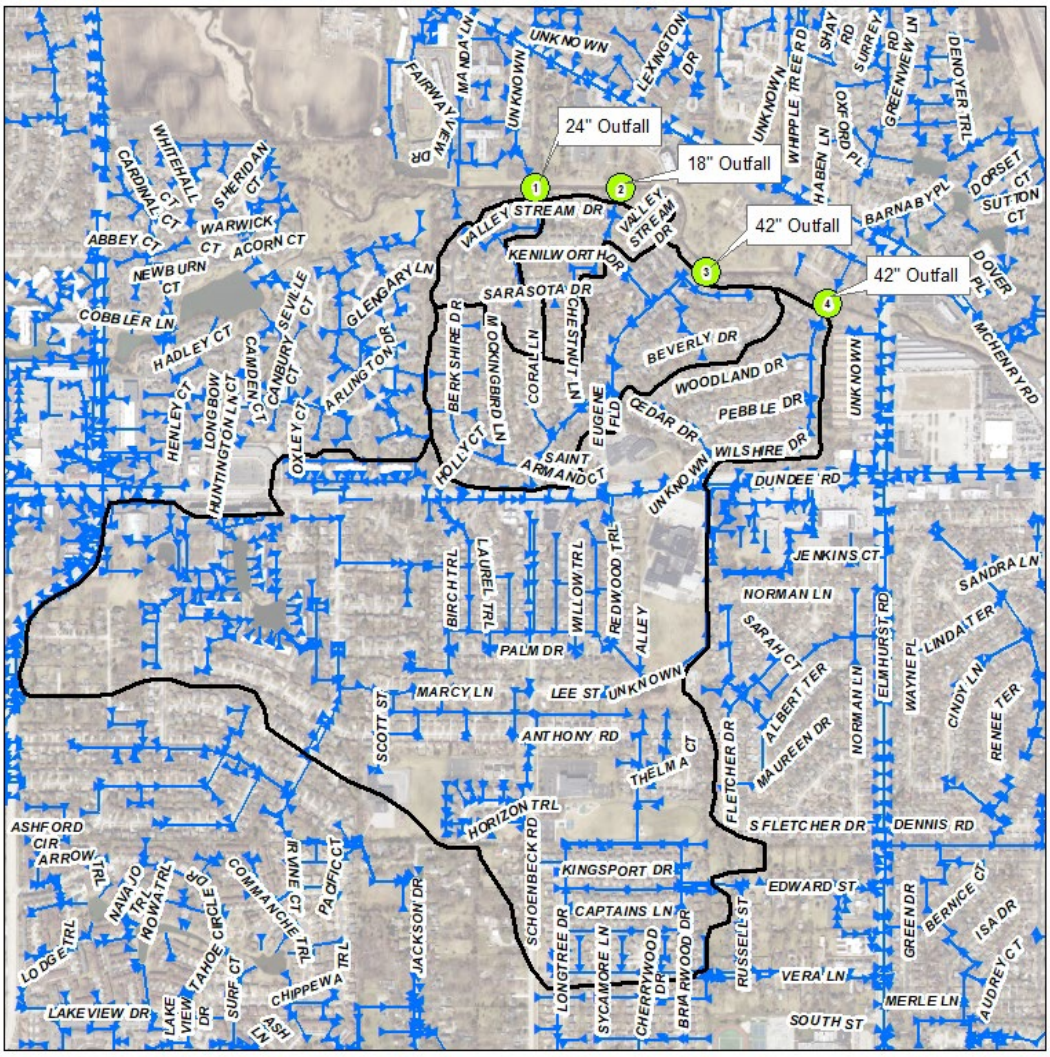


Figure 26. Hollywood Ridge Outfall Tributary Areas

Bulletin 75 Rainfall Data was used to determine the storm duration based on the intensity and a time of concentration of half an hour. **Table 12** summarizes the calculations done to find the LOS of the system. The 42-inch outfall to the far east has a limited potential flow capacity due to its large tributary area which explains its low LOS. This high level analysis assumed no tailwater constraints on any of the outlets.

Table 12. Hollywood Ridge Existing Level-of-Service (LOS)

Outfall ID	Composite Runoff Coefficient (C)	Tributary Area (ac)	Maximum Flow Capacity (cfs)	Intensity (in/hr)	Rainfall (in)	LOS Storm Duration
1	0.65	13.5	19.20	2.19	1.09	1-year
2	0.65	16.4	8.79	0.82	0.41	Less than 2-month
3	0.65	58.3	68.66	1.81	0.91	9-month
4	0.65	323.21	68.66	0.33	0.16	Less than 2-month

Further analysis was completed to determine the maximum flow capacity for each outfall to meet the 10-year LOS. The Rational Method was used again. According to Bulletin 75 rainfall data, the rainfall for the 10-year, 30-minute storm is 1.91 inches. With the time of concentration assumed 0.5 hour, the intensity is 3.82 in/hr. The maximum flow capacities are summarized in **Table 13**.

Table 13. Hollywood Ridge Outfall Capacity Required for 10-year, 30-minute Storm

Outfall Diameter (in)	Composite Runoff Coefficient (C)	Intensity (in/hr)	Tributary Area (ac)	Maximum Flow Capacity (cfs)
24	0.65	3.82	13.5	33.52
18	0.65	3.82	16.4	40.72
42	0.65	3.82	58.3	144.76
42	0.65	3.82	323.21	802.53

This is a very coarse representation that uses high level analysis and calculations. Existing storage throughout the tributary area is not accounted for. The Manning's Equation used here represents the estimated current LOS. Detailed comprehensive 1D and 2D modeling will be needed to properly upsize the outfalls, complete a storm sewer analysis, and determine the deficiencies to optimize the storm sewer system in this area.

CHAPTER 14 FINANCING OF STORMWATER IMPROVEMENT PROJECTS

The Village intends to utilize the SWMP Phase 2 as a guide to address stormwater issues by selecting improvement projects that mitigate existing problems. To fund recommended stormwater projects from the 2016 SWMP, the Village established a stormwater utility fee. The concept of the stormwater utility fee is to collect from both residents and businesses based on the amount of impervious area. Other communities in the area have recently been successful in establishing a stormwater utility fee to help fund stormwater improvement related projects, including: Rolling Meadows, Northbrook, Highland Park, Arlington Heights, Buffalo Grove, Libertyville, and others.

The stormwater utility fee is based on impervious area on a given parcel. The impervious area is directly related to the amount of stormwater runoff produced by a specific lot which flows downstream through sewers and overland flow to downstream properties and receiving streams. An equivalent residential unit (ERU) was developed to help quantify the amount of runoff leaving a property and is the basis for the amount paid through the utility fee on a monthly basis. The ERU is calculated based on the average impervious area on a single-family residential parcel. All single-family residential parcels in the Village will be charged at a rate for one ERU per month. Impervious areas for businesses and industries in the Village will be calculated to determine the number of ERUs within a specific non-residential parcel. The Village has performed a calculation to determine that one ERU is equivalent to 3,000 square feet. This is the average amount of impervious area for an average parcel lot size of 6,500 square feet. The stormwater utility fee rate for one ERU is $4.50 as of January 2026. The impervious area for all parcels in the village is established by the Village through the use of geographic information systems (GIS) analysis, aerial photographs, mapping information, site examination and other available information, and will be periodically updated based on available information.

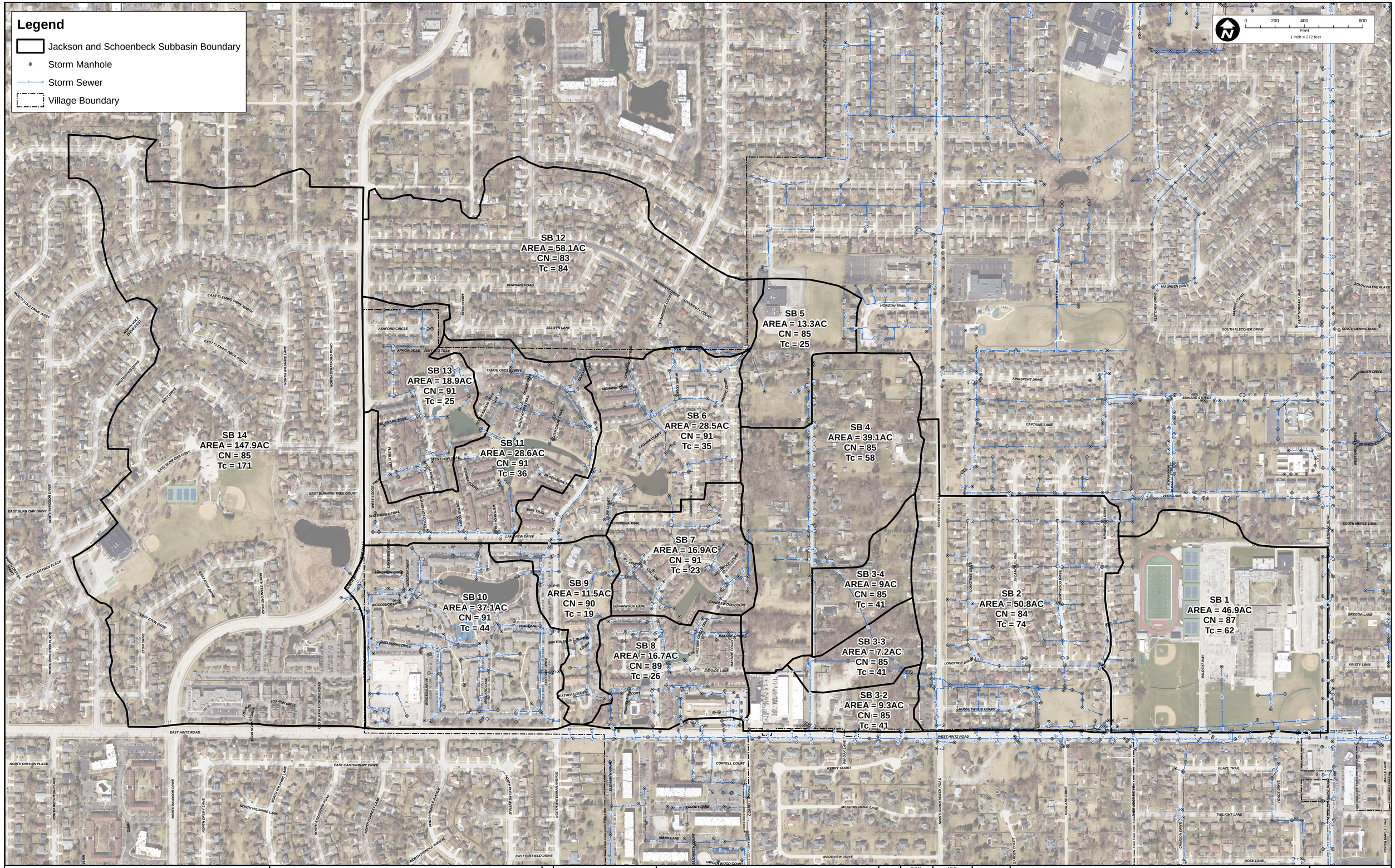
The Village with help from subconsultants can use this document as a tool for grant funding as opportunities become available. There are local, county, state, and federal grants that the Village could pursue depending on the project type. CBBEL will provide the Village notice of funding opportunity updates as grants become available.

CBBEL has developed concept improvement projects in the SWMP Phase 2 and estimated implementation costs for each project. The sum of all concept improvement projects in the SWMP Phase 2 is $36 million. **Table 14** shows a breakdown of the cost for each project.

Table 14. SWMP Phase 2 Concept Improvement Project Costs

Flood Area	Estimated Cost of Proposed Improvements
Jackson Drive and Schoenbeck Road	$2.6 million
West Jeffery Avenue and West Manchester Drive	$3.1 million
East Jeffery Avenue and East Manchester Drive	$7.2 million
1st Street and Deborah Lane	$266,000
Alt 1 – East Dunhurst Overflow Swale	$1.5 million
Alt 2 – South Dunhurst Storm Sewer Conveyance & Storage	Projected Completed
Alt 3 – As-Built Eastchester Relief Sewer	Project Completed
Alt 4 – Raise North Wheeling Road	$2.9 million
Alt 5 – South Wheeling Road Relief Sewer	Project Completed
Alt 6 – South Ridgefield Pond Improvements (10-Year)	$3.5 million*
Alt 7 - Comprehensive Ridgefield Pond Improvements (100-Year)	$10.4 million
Orchard Lake Private Property Drainage Issues	TBD with detailed analysis
Hollywood Ridge Roadway Drainage Issues	TBD with detailed analysis
Total	**$28 million**

*Alternative 6 not included in total cost. Alternative 7 is included as the more comprehensive flood reduction and water quality improvement option for the Ridgefield Subdivision.



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
EX 1		Jackson and Schoenbeck Subbasins	

DSN.	JGR
DWN.	JGR
CHKD.	MJB
SCALE:	1 in = 272 ft
PLOT DATE:	
CAD USER:	
MODEL:	

TITLE:
JACKSON DRIVE AND SCHOENBECK ROAD SUBBASINS MAP

PROJ. NO. 250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 1

LEGEND

- Storm Manhole
- Storm Sewer
- Jackson and Schoenbeck Subbasin Boundary

10 YR 2 HR STORM

DEPTH (FT)

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- >2.5

0 75 150 300
Feet
1 inch = 150 feet

UNKNOWN
CANDLEWOOD CT
LAKESIDE DR
BAYSIDE DR
BAYSIDE CT
BAYSIDE DR
JACKSON DR
N SCHOENBECK RD
SYCAMORE LN
LONGTREE DR
LONGTREE LN

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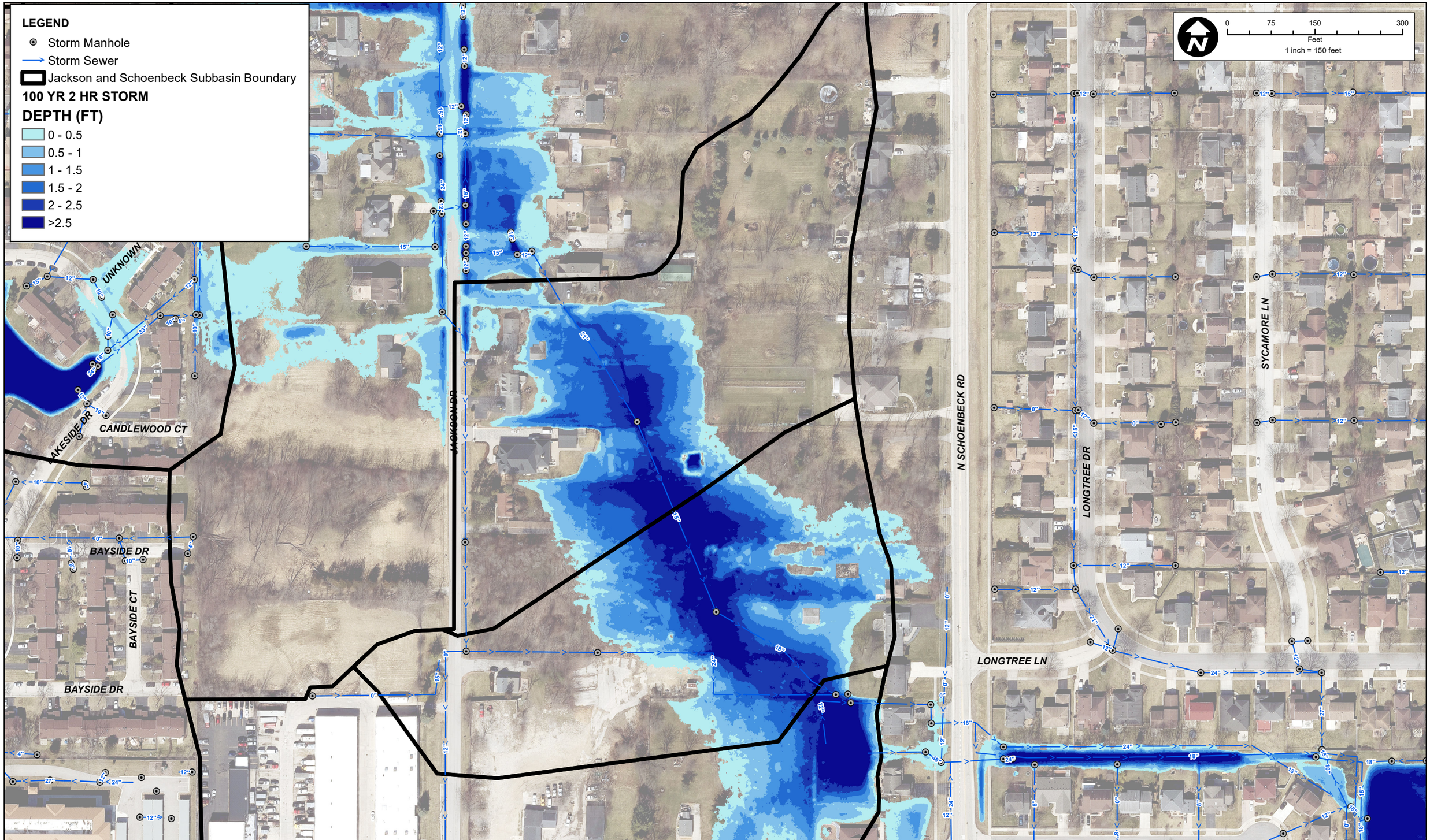
CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
JACKSON DRIVE AND SCHOENBECK ROAD EXISTING 10-YEAR INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 2



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CLIENT:
VILLAGE OF WHEELING

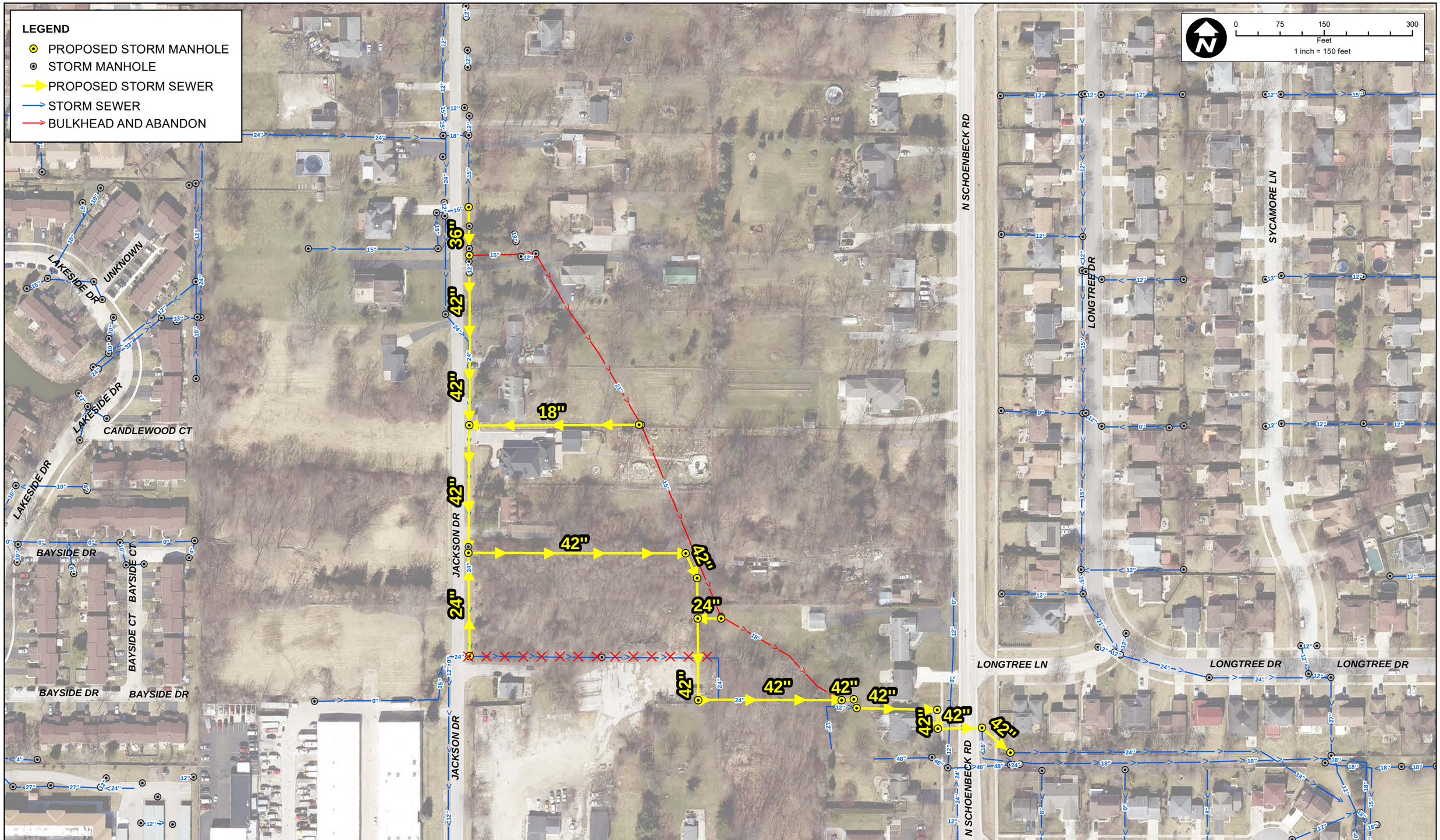
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/30/2026
CAD USER:	
MODEL:	

TITLE:
JACKSON DRIVE AND SCHOENBECK ROAD EXISTING 100-YEAR INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 3



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

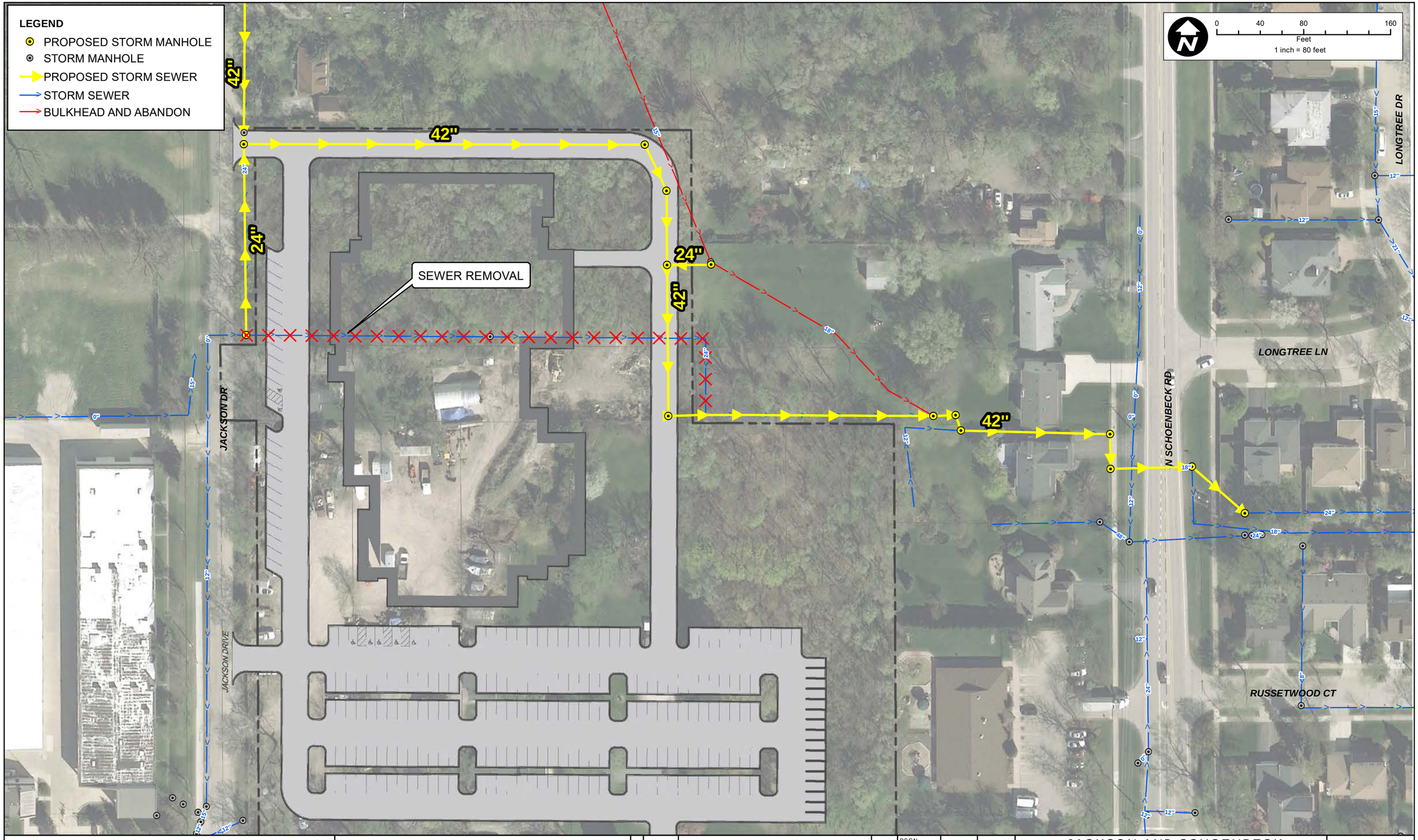
FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:

JACKSON DRIVE AND SCHOENBECK ROAD PROPOSED IMPROVEMENTS MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 4



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CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE: *JACKSON AND SCHOENBECK PROPOSED STORM SEWER ROUTING THROUGH EARLY LEARNING CENTER DEVELOPMENT*

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 5

LEGEND

- PROPOSED STORM MANHOLE
- STORM MANHOLE
- PROPOSED STORM SEWER
- STORM SEWER
- BULKHEAD AND ABANDON
- Jackson and Schoenbeck Subbasin Boundary

10 YR 2 HR STORM

DEPTH (FT)

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- >2.5

0 75 150 300
Feet
1 inch = 150 feet

N SCHOENBECK RD
SYCAMORE LN
LONGTREE DR
LONGTREE LN
LONGTREE DR
LONGTREE DR
LAKESIDE DR
CANDLEWOOD CT
LAKESIDE DR
BAYSIDE DR
BAYSIDE CT
BAYSIDE CT
BAYSIDE DR
BAYSIDE DR
JACKSON DR
JACKSON DR
N SCHOENBECK RD

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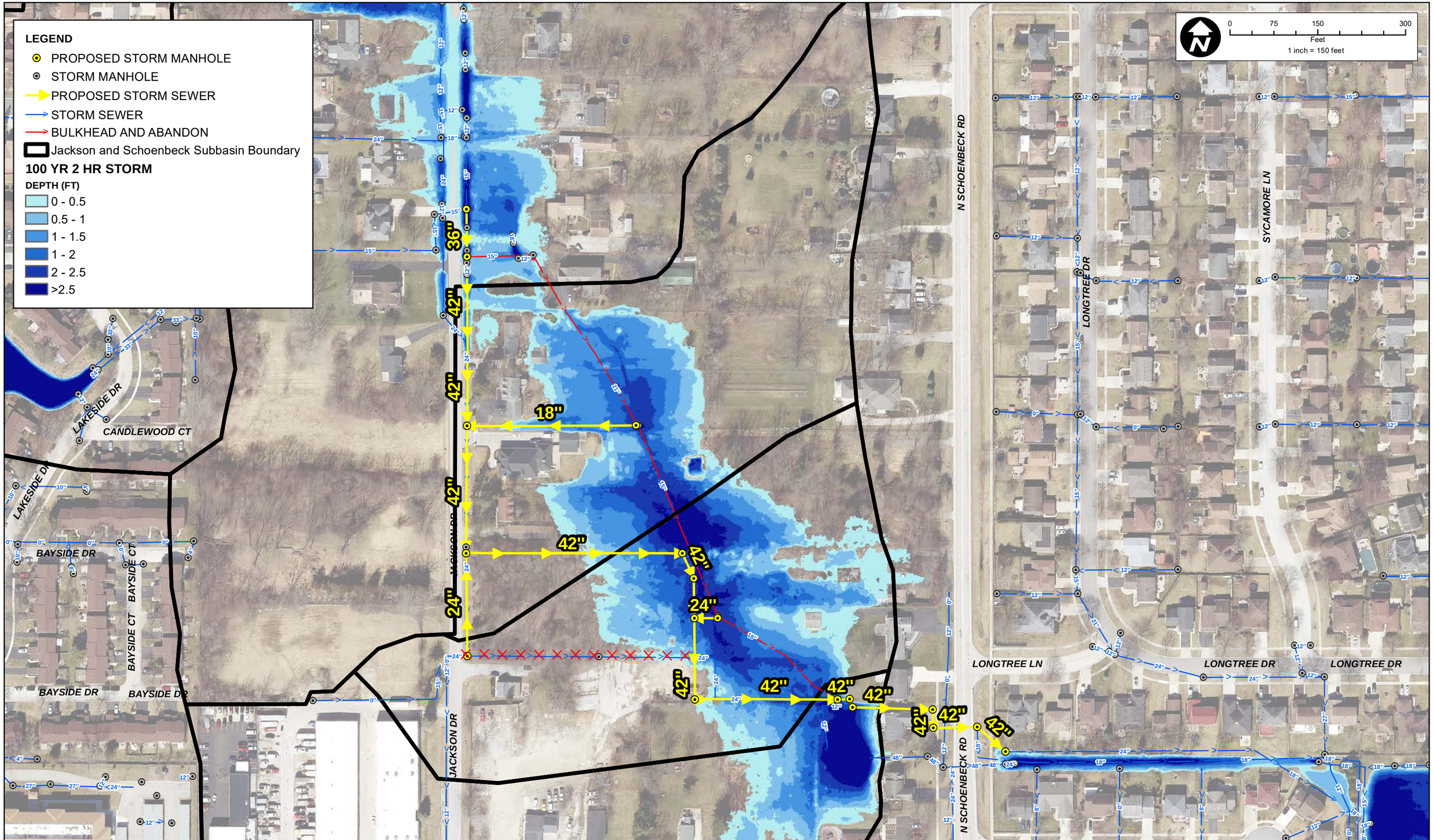
CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
JACKSON DRIVE AND SCHOENBECK ROAD PROPOSED 10-YEAR STORM INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 6



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CLIENT:
VILLAGE OF WHEELING

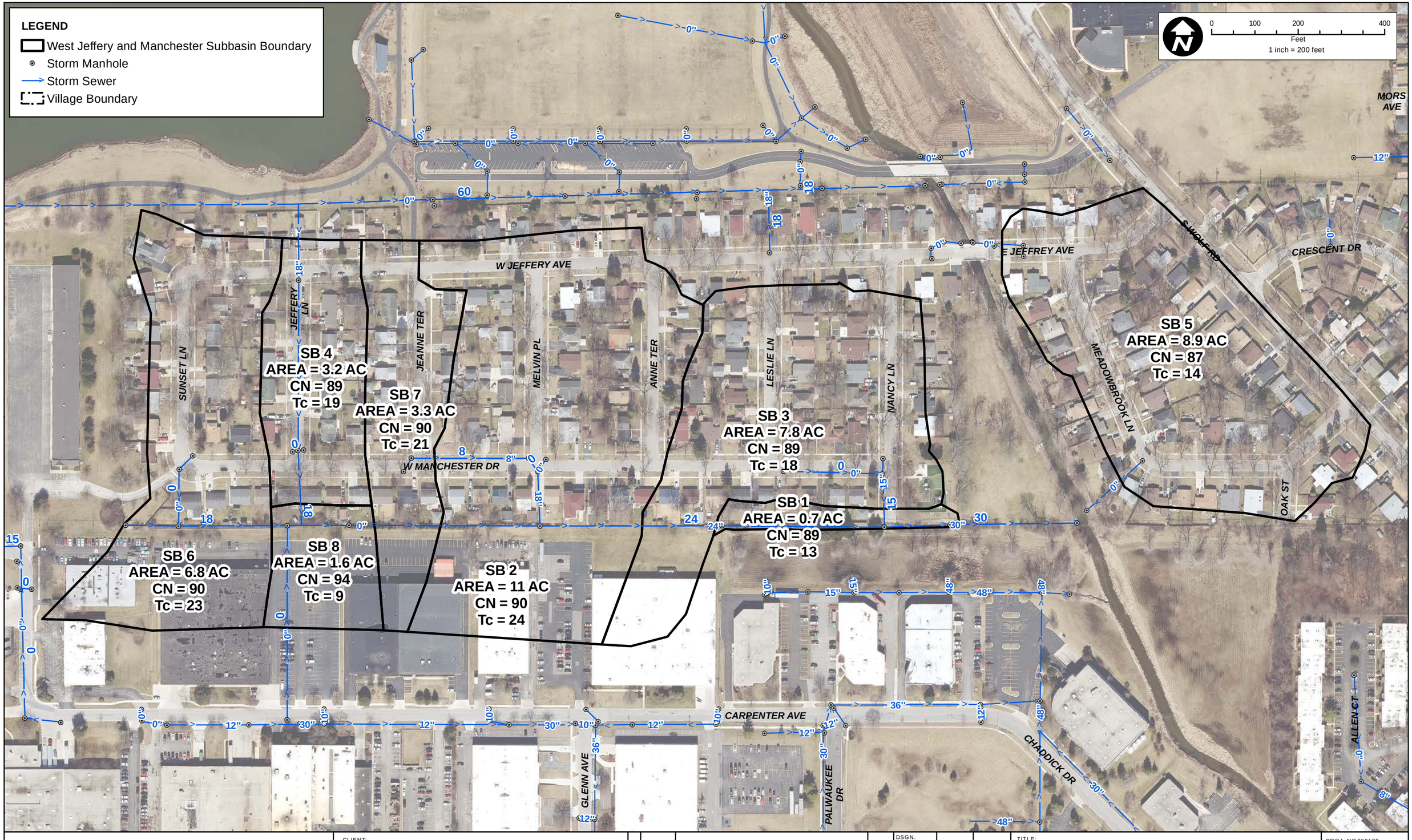
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
JACKSON DRIVE AND SCHOENBECK ROAD PROPOSED 100-YEAR STORM INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 7



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CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
WEST JEFFERY AVENUE & WEST MANCHESTER DRIVE SUBBASINS MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 8

LEGEND

- Storm Manhole
- Storm Sewer
- West Jeffery and Manchester Subbasin Boundary
- Village Boundary

10 YR 1 HR STORM

DEPTH (FT)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- >1

0 100 200 400
Feet
1 inch = 200 feet

W JEFFERY AVE
E JEFFREY AVE
W MANCHESTER DR
CARPENTER AVE
SUNSET LN
JEFFERY LN
JEANNE TER
MELVIN PL
ANNE TER
LESLIE LN
NANCY LN
MEADOWBROOK LN
S WOLF RD
CRESCENT DR
MORS AVE
OAK ST
GLENN AVE
PALWAUKEE DR
CHADDICK DR
ALLEN CT

SUNSET AND MANCHESTER
LOW RIM EL = 640.7
10 YR WSEL = 642.2

MELVIN AND MANCHESTER
LOW RIM EL = 640.1
10 YR WSEL = 641.9

MEADOWBROOK LANE
LOW RIM EL = 638.0
10 YR WSEL = 640.2

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CLIENT: *VILLAGE OF WHEELING*

NO.	DATE	NATURE OF REVISION	CHKD.
		FILE NAME	

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE: *WEST JEFFERY AVENUE & WEST MANCHESTER DRIVE EXISTING 10-YEAR STORM INUNDATION MAP*

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO. *EX 9*

LEGEND

- Storm Manhole
- Storm Sewer
- West Jeffery and Manchester Subbasin Boundary
- Village Boundary

100 YR 1 HR STORM

DEPTH (FT)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- >1

0 100 200 400
Feet
1 inch = 200 feet

W JEFFERY AVE

E JEFFREY AVE

S WOLF RD

CRESCENT DR

MORS AVE

SUNSET LN

JEFFERY LN

JEANNE TER

MELVIN PL

ANNE TER

LESLIE LN

NANCY LN

MEADOWBROOK LN

OAK ST

W MANCHESTER DR

CARPENTER AVE

GLENN AVE

PALWAUKEE DR

CHADDICK DR

ALLEN CT

SUNSET AND MANCHESTER
LOW RIM EL = 640.7
100 YR WSEL = 642.3

MELVIN AND MANCHESTER
LOW RIM EL = 640.1
100 YR WSEL = 642.0

MEADOWBROOK LANE
LOW RIM EL = 638.0
100 YR WSEL = 640.2

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CLIENT: *VILLAGE OF WHEELING*

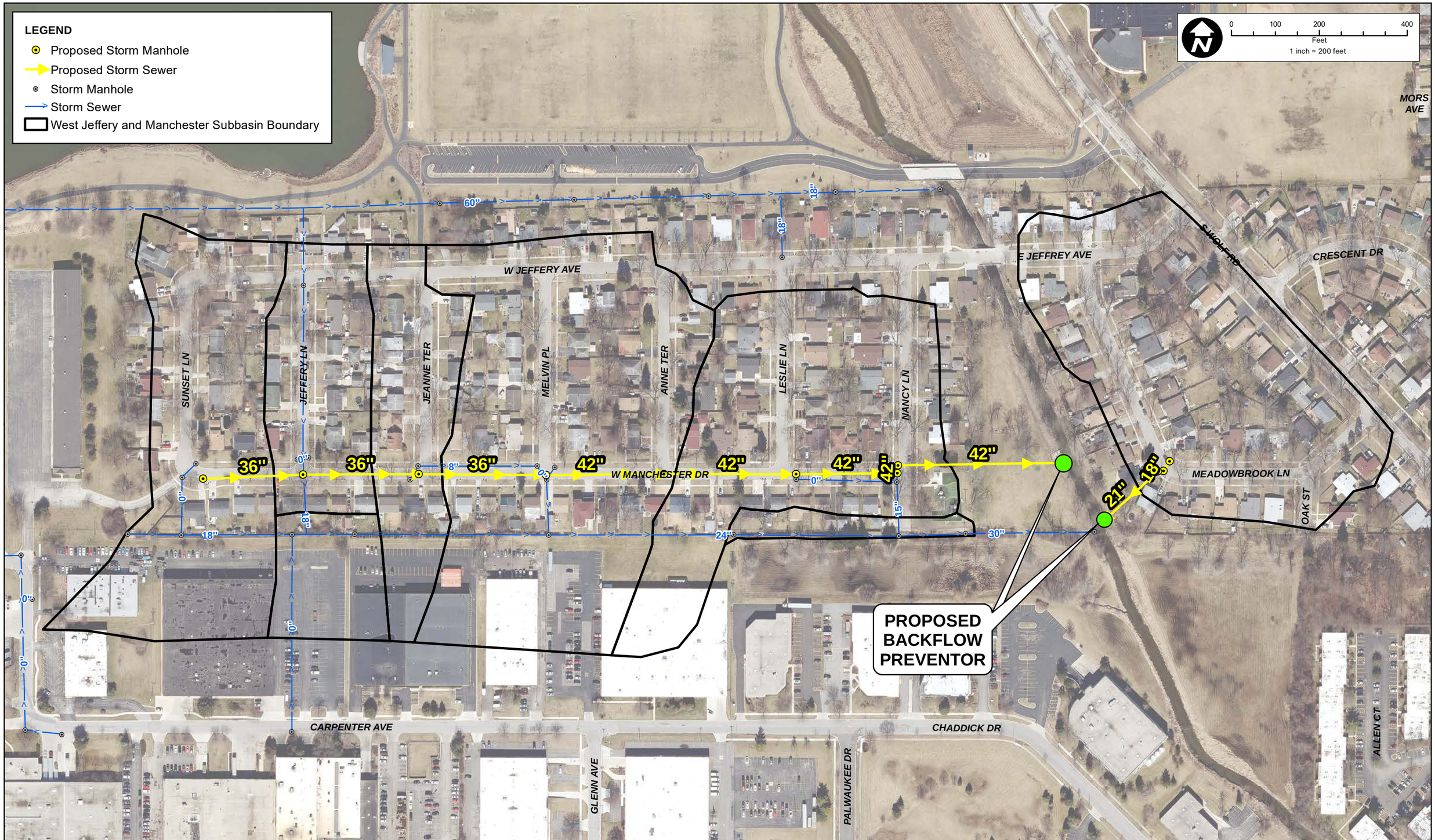
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE: *WEST JEFFERY AVENUE AND WEST MANCHESTER DRIVE EXISTING 100 YEAR STORM INUNDATION MAP*

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 10



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CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
WEST JEFFERY AVENUE AND MANCHESTER DRIVE PROPOSED IMPROVEMENTS MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 11

LEGEND

- Proposed Storm Manhole
- Proposed Storm Sewer
- Storm Manhole
- Storm Sewer
- West Jeffery and Manchester Subbasin Boundary

10 YR 1 HR STORM

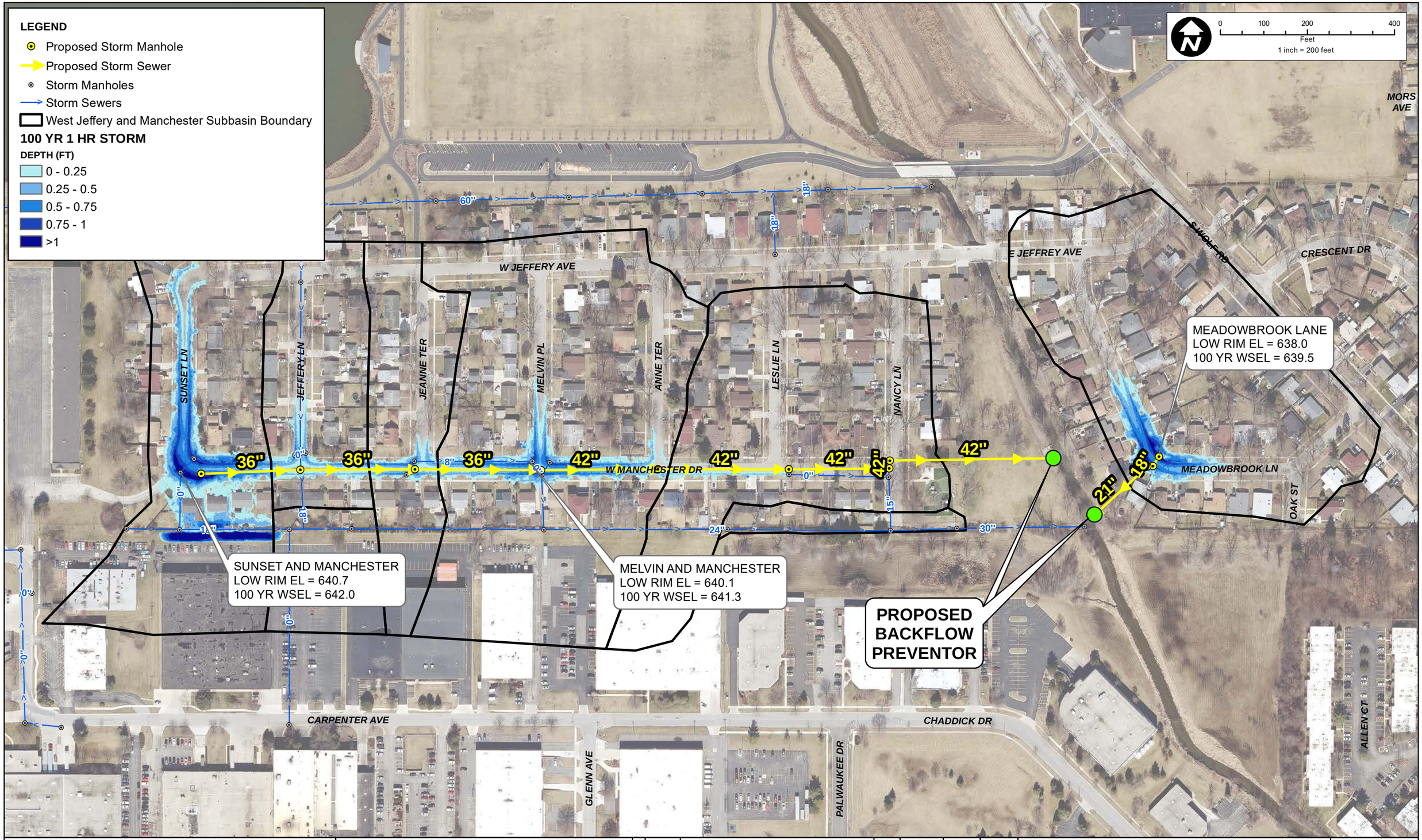
DEPTH (FT)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- >1

0 100 200 400
Feet
1 inch = 200 feet

W JEFFERY AVE
E JEFFREY AVE
S WOLF RD
CRESCENT DR
MORS AVE
SUNSET LN
JEFFERY LN
JEANNE TER
MELVIN PL
ANNE TER
LESLIE LN
NANCY LN
W MANCHESTER DR
MEADOWBROOK LN
OAK ST
CARPENTER AVE
CHADDICK DR
GLENN AVE
PALWAUKEE DR
ALLEN CT

60" 18" 18" 42" 42" 42" 42" 42" 42" 36" 36" 36" 36" 42" 42" 42" 42" 21" 18" 18" 24" 30" 15" 8" 0" 0" 0



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CLIENT: *VILLAGE OF WHEELING*

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE: *WEST JEFFERY AVENUE AND WEST MANCHESTER DRIVE PROPOSED 100-YEAR STORM INUNDATION MAP*

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO. *EX 13*



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CLIENT: *VILLAGE OF WHEELING*

NO	DATE	NATURE OF REVISION	CHKD.
		FILE NAME	

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE: *EAST JEFFERY AVENUE AND EAST MANCHESTER DRIVE SUBBASINS MAP*

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO. *EX 14*

LEGEND

- East Jeffery and Manchester Subbasin Boundary
- Storm Manhole
- Storm Sewer
- Village Boundary

10YR 2HR STORM

DEPTH (FT)

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- >2

0 100 200 400
Feet
1 inch = 200 feet

ANITA AND JEFFERY
LOW RIM EL = 642.3
10 YR WSEL = 644.0

VIRGINIA AND MANCHESTER
LOW RIM EL = 640.4
10 YR WSEL = 640.4

STONE AND MANCHESTER
LOW RIM EL = 641.0
10 YR WSEL = 642.5

E JEFFERY AVE
E MANCHESTER DR
WILLE ST
MEADOWBROOK LN
STONE PL
ANITA PL
MARV
JEROME PL
VIRGINIA PL
S MILWAUKEE AVE
HARMONY DR
HICKORY DR
LOCUST DR
HONEY
ELM DR
S WOLF RD
ALLEN CT
PEGGY CT
ARLENE CT
FOXBORO DR
GAYLE CT
BEECH DR
RUSTIC DR
FERNE DR
VITA DR
POPLAR DR
BUCKEYE DR
MAPLE DR
ASTOR LN
PRESTWICK LN
UNKNOWN

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CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
EAST JEFFERY AVENUE AND EAST MANCHESTER DRIVE EXISTING 10 -YEAR STORM INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 15

LEGEND

- East Jeffery and Manchester Subbasin Boundary
- Storm Manhole
- Storm Sewer
- Village Boundary

100YR 2 HR STORM

DEPTH (FT)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- >4

0 100 200 400
Feet
1 inch = 200 feet

ANITA AND JEFFERY
LOW RIM EL = 642.3
100 YR WSEL = 644.4

VIRGINIA AND MANCHESTER
LOW RIM EL = 640.4
10 YR WSEL = 641.7

STONE AND MANCHESTER
LOW RIM EL = 641.0
100 YR WSEL = 642.8

E JEFFERY AVE
E MANCHESTER DR
WILLE ST
MEADOWBROOK LN
STONE PL
ANITA PL
MARV
JEROME PL
VIRGINIA PL
S MILWAUKEE AVE
S WOLF RD
ALLEN CT
BWA
PEGGY CT
ARLENE CT
FOXBORO DR
GAYLE CT
BEECH DR
RUSTIC DR
RUSTIC DR
FERNE DR
VITA DR
VITA DR
LOCUST DR
HONEY
ELM DR
HARMONY DR
HICKORY DR
MAPLE DR
MAPLE DR
POPLAR DR
HARMONY DR
BUCKEYE DR
PRESTWICK LN
ASTOR LN
UNKNOWN
UNKNOWN

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CLIENT: VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE: EAST JEFFERY AVENUE AND EAST MANCHESTER DRIVE EXISTING 100 -YEAR STORM INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO. EX 16

LEGEND

- Proposed Storm Manhole
- Storm Manhole
- Proposed Storm Sewer
- Storm Sewer
- Proposed Storage Vault
- Village Boundary

0 100 200 400
Feet
1 inch = 200 feet

3 AC-FT STORAGE VAULT
INVERT = 634.0
CEILING = 638.0
FOOTPRINT = 0.75 AC

E JEFFERY AVE
E MANCHESTER DR
WILLE ST
WILLE AVE
CRESCENT DR
MEADOWBROOK LN
MARVIN PL
STONE PL
ANITA PL
JEROME PL
VIRGINIA PL
PARK A
S MILWAUKEE AVE
HARMONY DR
HICKORY DR
LOCUST DR
HONEY
ELM DR
MAPLE DR
MAPLE DR
VITA DR
VITA DR
FERNE DR
BEECH DR
RUSTIC DR
RUSTIC DR
HARMONY DR
POPLAR DR
BUCKEYE DR
S WOLF RD
ALLEN CT
BIVA CT
PEGGY CT
ARLENE CT
FOXBORO DR
GAYLE CT
PRESTWICK LN
ASTOR LN
UNKNOWN
UNKNOWN

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CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
		FILE NAME	

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
EAST JEFFERY AVENUE AND EAST MANCHESTER DRIVE PROPOSED IMPROVEMENTS

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 17

LEGEND

- Proposed Storm Manhole
- Storm Manhole
- Proposed Storm Sewer
- Storm Sewer
- Proposed Storage Vault
- Village Boundary

10YR 2HR STORM

DEPTH (FT)

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- >2

0 100 200 400
Feet
1 inch = 200 feet

3 AC-FT STORAGE VAULT
INVERT = 634.0
CEILING = 638.0
FOOTPRINT = 0.75 AC

STONE AND MANCHESTER
LOW RIM EL = 641.0
100 YR WSEL = 641.1

E JEFFERY AVE
WILLE AVE
WILLE ST
MEADOWBROOK
STONE PL
ANITA PL
MARVIN PL
JEROME PL
VIRGINIA PL
PARK A
S MILWAUKEE AVE
E MANCHESTER DR
S WOLF RD
ALLEN CT
PEGGY CT
ARLENE CT
FOXBORO DR
GAYLE CT
BEECH DR
RUSTIC DR
FERNE DR
VITA DR
HONEY LOCUST DR
ELM DR
HARMONY DR
POPLAR DR
BUCKEYE DR
HICKORY DR
MAPLE DR
PRESTWICK LN
ASTOR LN
UNKNOWN

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CLIENT: VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
		FILE NAME	

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE: *EAST JEFFERY AVENUE AND EAST MANCHESTER DRIVE PROPOSED 10 -YEAR STORM INUNDATION MAP*

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO. EX 18



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CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	1/22/2026
CAD USER:	
MODEL:	

TITLE:
EAST JEFFERY AVENUE AND EAST MANCHESTER DRIVE PROPOSED 100 -YEAR STORM INUNDATION

PROJ. NO.25012
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 19

LEGEND

- 1st and Deborah Subbasin Boundary
- Storm Manhole
- Storm Sewer
- Village Boundary

0 100 200 400
Feet
1 inch = 200 feet

MAYER AVE
MAYER AVE
PRAIRIE VIEW LN
EDGEWOOD DR
5TH ST
2ND ST
MILWAUKEE AVE
KRAUSE LN
3RD ST
STRONG ST
1ST ST
WOLF RD
CAPRI TER
GLENDALE ST
ALLEY
6TH ST
CYRILLA ST
ALLEY
DEBORAH LN
DUNDEE RD
BRIAN LN
WHEELING AVE
WILLE ST

SB 1
AREA = 28.2AC
CN = 86
Tc = 17

SB 2
AREA = 8.3AC
CN = 87
Tc = 18

SB 3
AREA = 12.5AC
CN = 88
Tc = 12

SB 4
AREA = 1.9AC
CN = 89
Tc = 16

SB 5
AREA = 5.1AC
CN = 91
Tc = 16

SB 6
AREA = 4.5AC
CN = 88
Tc = 19

SB 7
AREA = 2AC
CN = 94
Tc = 18

SB 8
AREA = 0.5AC
CN = 89
Tc = 10

SB 9
AREA = 1AC
CN = 89
Tc = 10

N:\Wheeling\250120\GIS\Exhibits\Report Exhibits\EX 20 1st and Deborah Subbasins.mxd

DSGN.	JGR	CHKD.	MJB

Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, IL 60018
(847) 823-0500 / FAX (847) 823-0520

CLIENT: ***VILLAGE OF WHEELING***

PROJECT NO.: 250120

TITLE: ***1ST STREET AND DEBORAH LANE SUBBASIN DELINEATION***

DATE: 3/20/2026

EX 20



CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF WHEELING

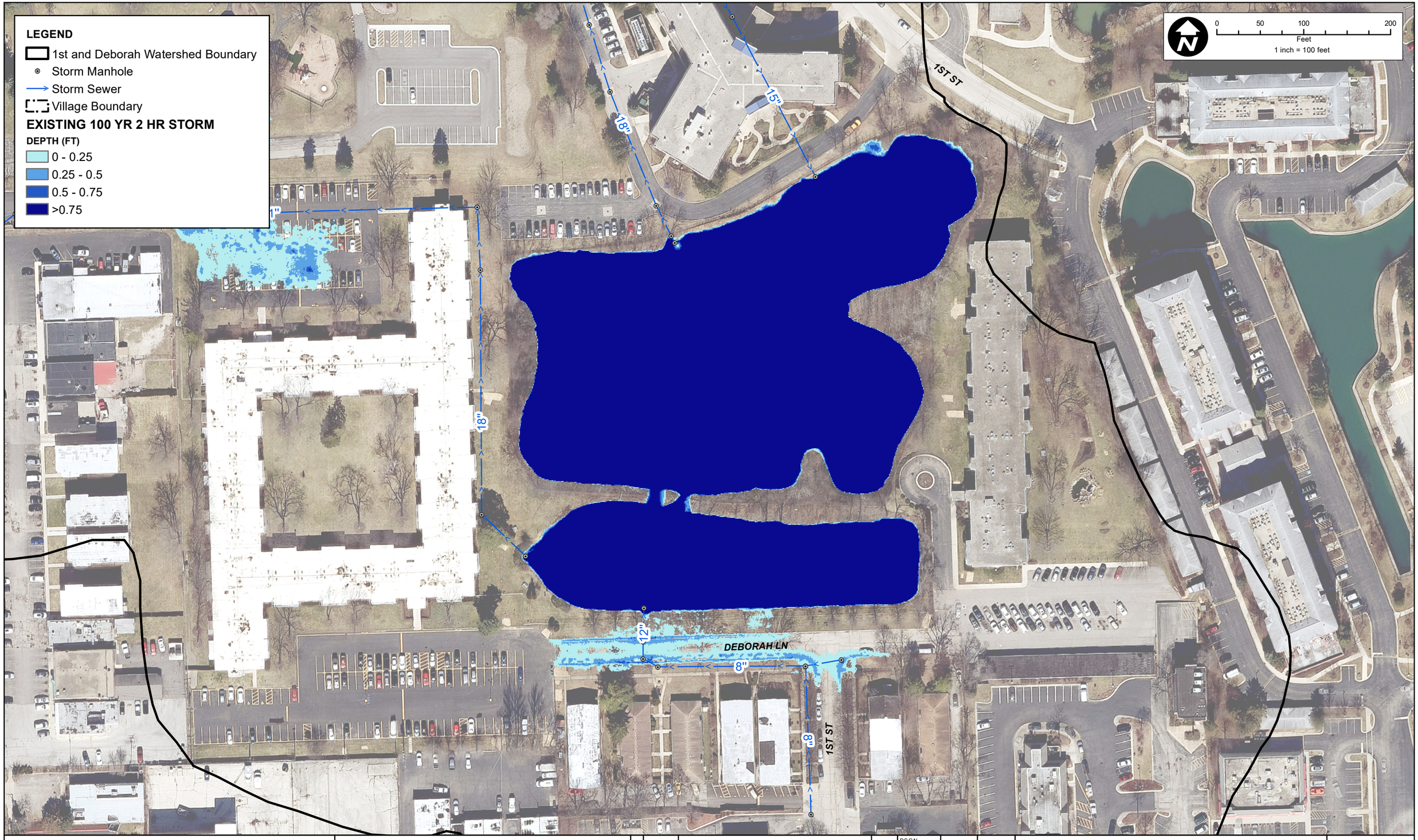
NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.			
DWN.	JGR		
CHKD.			
SCALE:	1"=		
PLOT DATE:	3/12/2026		
CAD USER:			
MODEL:			

TITLE:

1ST STREET AND DEBORAH LANE
EXISTING 10-YR STORM
INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 21



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	3/12/2026
CAD USER:	
MODEL:	

TITLE:

1ST STREET AND DEBORAH LANE EXISTING 100-YR STORM INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 22

LEGEND

- 1st and Deborah Watershed Boundary
- Proposed Storm Manhole
- Proposed Storm Sewer
- Storm Manhole
- Storm Sewer
- Village Boundary

0 50 100 200
Feet
1 inch = 100 feet

21"
18"
15"
18"
HORIZONTAL ELLIPSE
14" x 23"
12"
8"
12"
8"
8"

				DSGN.		
				DWN.	JGR	
				CHKD.		
				SCALE:	1"=	
				PLOT DATE:	3/20/2026	
				CAD USER:		
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:		
FILE NAME						

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
VILLAGE OF WHEELING

TITLE:
1ST STREET AND DEBORAH LANE PROPOSED IMPROVEMENTS MAP

PROJ. NO. 250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 23



CHRISTOPHER B. BURKE ENGINEERING LTD.
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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	3/20/2026
CAD USER:	
MODEL:	

TITLE:

1ST STREET AND DEBORAH LANE PROPOSED 10-YEAR STORM INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 24



CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	
DWN.	JGR
CHKD.	
SCALE:	1"=
PLOT DATE:	3/20/2026
CAD USER:	
MODEL:	

TITLE:

1ST STREET AND DEBORAH LANE PROPOSED 100-YEAR STORM INUNDATION MAP

PROJ. NO.250120
DATE:
SHEET 1 OF 1
DRAWING NO.
EX 25

0 250 500 1,000
Feet
1 inch = 250 feet

SB 1
AREA = 4.1AC
CN = 83
Tc = 24

SB 2
AREA = 6AC
CN = 83
Tc = 26

SB 3
AREA = 6.5AC
CN = 83
Tc = 29

SB 4
AREA = 9.2AC
CN = 83
Tc = 22

SB 5
AREA = 3.8AC
CN = 83
Tc = 20

SB 6
AREA = 2.7AC
CN = 83
Tc = 11

SB 7
AREA = 6.3AC
CN = 83
Tc = 26

SB 8
AREA = 5.6AC
CN = 83
Tc = 25

SB 9
AREA = 6.4AC
CN = 83
Tc = 27

SB 10
AREA = 4.6AC
CN = 83
Tc = 21

SB 11
AREA = 3.3AC
CN = 83
Tc = 15

SB 12
AREA = 3.3AC
CN = 83
Tc = 22

SB 13
AREA = 12.6AC
CN = 83
Tc = 32

SB 14
AREA = 6.4AC
CN = 83
Tc = 14

SB 15
AREA = 1.8AC
CN = 83
Tc = 12

SB 16
AREA = 5.3AC
CN = 83
Tc = 12

SB 17
AREA = 1.2AC
CN = 83
Tc = 14

SB 18
AREA = 3.1AC
CN = 83
Tc = 17

SB 19
AREA = 7.6AC
CN = 83
Tc = 17

SB 20
AREA = 9.3AC
CN = 83
Tc = 19

SB 21
AREA = 2.1AC
CN = 83
Tc = 14

SB 22
AREA = 3.4AC
CN = 83
Tc = 17

SB 23
AREA = 4.4AC
CN = 83
Tc = 14

SB 24
AREA = 3.1AC
CN = 83
Tc = 19

SB 25
AREA = 9.3AC
CN = 84
Tc = 28

SB 26
AREA = 11.1AC
CN = 92
Tc = 24

SB 27
AREA = 5.1AC
CN = 94
Tc = 14

SB 28
AREA = 10.9AC
CN = 92
Tc = 14

SB 29
AREA = 3.2AC
CN = 83
Tc = 16

SB 30
AREA = 5.4AC
CN = 83
Tc = 23

SB 31
AREA = 4.4AC
CN = 83
Tc = 23

SB 32
AREA = 6.9AC
CN = 83
Tc = 30

SB 33
AREA = 5.6AC
CN = 83
Tc = 17

SB 34
AREA = 3.3AC
CN = 83
Tc = 15

SB 35
AREA = 2.9AC
CN = 83
Tc = 12

SB 36
AREA = 25AC
CN = 91
Tc = 25

SB 37
AREA = 4.1AC
CN = 94
Tc = 5

SB 38
AREA = 10.3AC
CN = 82
Tc = 20

SB 39
AREA = 9.6AC
CN = 94
Tc = 5

SB 40
AREA = 13.3AC
CN = 81
Tc = 29

SB 41
AREA = 25.6AC
CN = 91
Tc = 25

SB 42
AREA = 6AC
CN = 85
Tc = 21

SB 43
AREA = 4.4AC
CN = 94
Tc = 6

SB 44
AREA = 1.5AC
CN = 83
Tc = 13

SB 45
AREA = 54.3AC
CN = 83
Tc = 74

SB 46
AREA = 20.4AC
CN = 84
Tc = 22

SB 47
AREA = 23.3AC
CN = 82
Tc = 25

SB 48
AREA = 2.3AC
CN = 83
Tc = 17

LEGEND

- Dunhurst Subbasin Boundary
- Storm Manholes
- Storm Sewers
- Village Boundary

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
VILLAGE OF WHEELING

No.	DATE	NATURE OF REVISION
FILE NAME:		
DATE:		

DSN. MJB
CHKD. ELG
SCALE
GIS USER
MODEL ArcGIS 9.2

TITLE:
DUNHURST SUBBASIN MAP

PROJ. NO. 25-0120
SHEET 1 OF 1
DRAWING NO.
EXH 26

0 250 500 1,000

Feet

1 inch = 250 feet

FLOOD DEPTH = 4.0'

WEST DUNHURST

FLOOD DEPTH = 3.2'

EAST DUNHURST

FLOOD DEPTH = 2.0'

NORTH WHEELING ROAD

FLOOD DEPTH = 2.7'

FLOOD DEPTH = 3.3'

FLOOD DEPTH = 1.4'

FLOOD DEPTH = 2.4'

SOUTH DUNHURST

FLOOD DEPTH = 1.7'

FLOOD DEPTH = 4.3'

SOUTH WHEELING ROAD

LEGEND

- Storm Manholes
- Storm Sewers
- Dunhurst Watershed Boundary
- Village Boundary

100YR 2HR

Depth (FT)

- 0 - 1
- 1 - 2
- 2 - 3
- 3- 4
- 4 - 5
- 5 - 6
- 6 - 7
- 7 - 8
- 8 - 9

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CLIENT:

VILLAGE OF WHEELING

No.	DATE	NATURE OF REVISION

FILE NAME:

DATE:

DSN.	MJB
CHKD.	ELG
SCALE	
GIS USER	
MODEL	ArcGIS 9.2

TITLE:

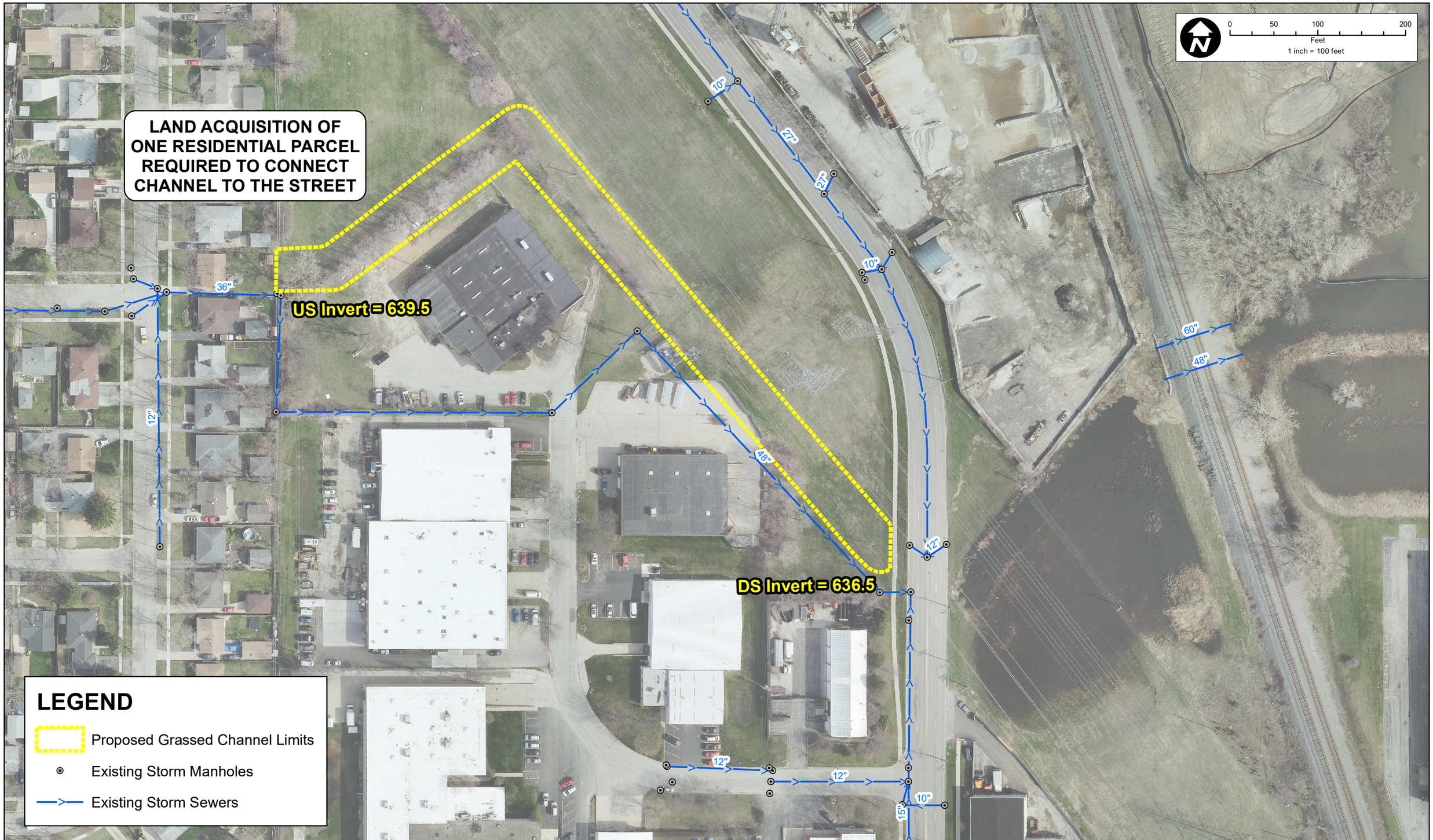
DUNHURST STUDY AREA EXSTING CONDITIONS

PROJ. NO. 13-0631

SHEET 1 OF 1

DRAWING NO.

EXH 27



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Rosemont, Illinois 60018
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CLIENT:

VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

DSGN.	MJB
DWN.	MJB
CHKD.	ELG
SCALE:	1"=
PLOT DATE:	
CAD USER:	
MODEL:	

TITLE:

ALTERNATIVE 1
EAST DUNHURST PROPOSED OVERFLOW OUTLET

PROJ. NO. 13-0631
DATE:
SHEET 1 OF 1
DRAWING NO.
EXH 28



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CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	MJB
DWN.	MJB
CHKD.	ELG
SCALE:	1"=
PLOT DATE:	
CAD USER:	
MODEL:	

TITLE:
ALTERNATIVE 1
EAST DUNHURST
100-YEAR STORM INUNDATION MAP

PROJ. NO. 13-0631
DATE:
SHEET 1 OF 1
DRAWING NO.
EXH 29

PLUG EXISTING SOUTH DUNHURST OUTLET SEWER

AS-BUILT STORAGE AREA
VOLUME = 15 AC-FT
NWL = 639.0
HWL = 645.5

0 75 150 300
Feet
1 inch = 150 feet

WAYNE PL
SCHOOL DRIVE WAY
UNKNOWN
MERLE LN
BERNICE CT
ISA DR
AUDREY CT
GREEN DR
HARVESTER CT
MARK TWAIN ELEMENTARY SCHOOL

36" RCP
76" x 48" RCP Ellip
72" RCP
72" RCP
18" RCP
68" x 43" RCP Ellip
42" RCP
24" RCP
24" RCP
24" RCP

LEGEND

- Proposed Storm Manhole
- Proposed Storm Sewer
- Proposed Flood Storage
- Existing Storm Manholes
- Existing Storm Sewers

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **VILLAGE OF WHEELING**

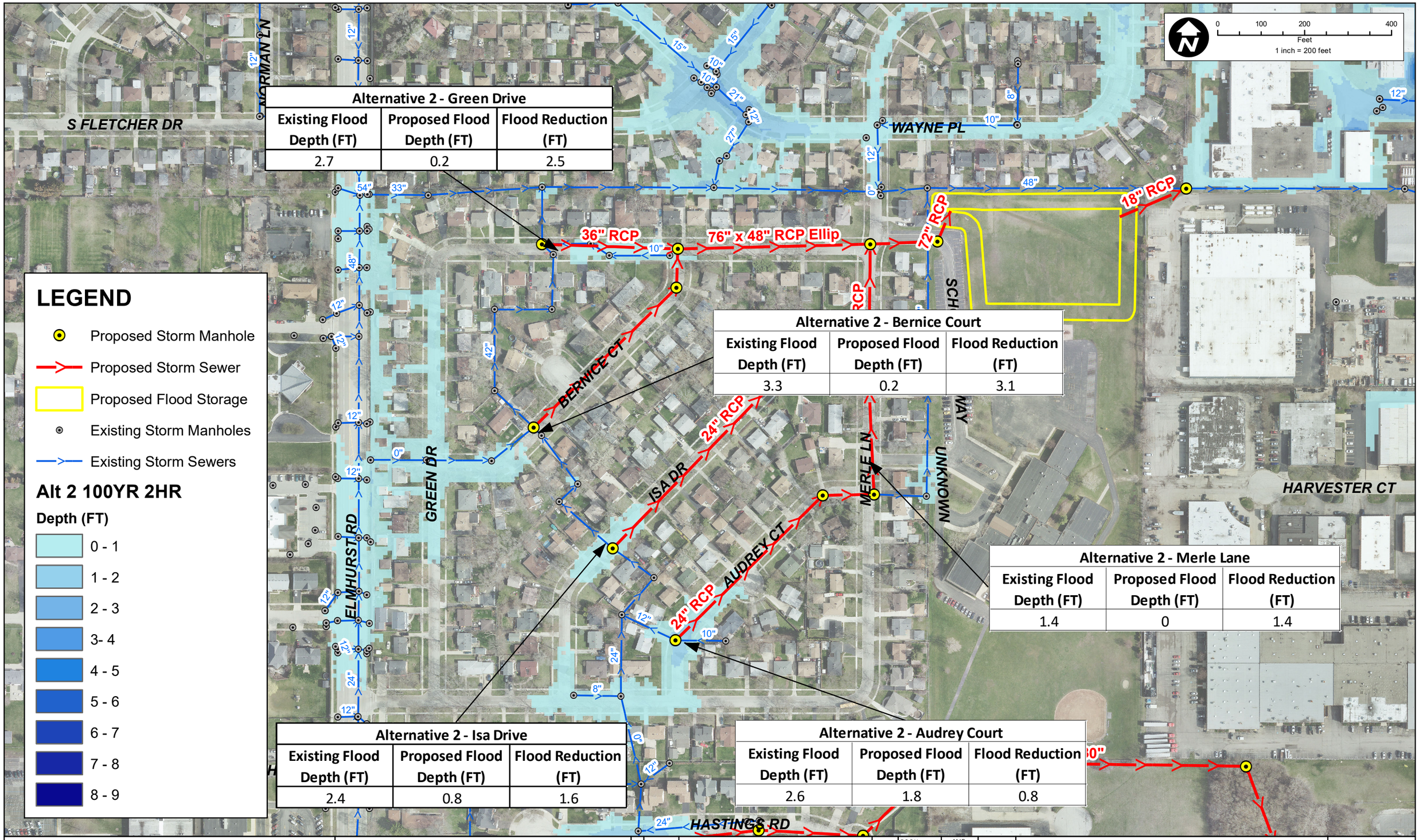
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	MJB
DWN.	MJB
CHKD.	ELG
SCALE:	1"=
PLOT DATE:	
CAD USER:	
MODEL:	

TITLE: **ALTERNATIVE 2 SOUTH DUNHURST PROPOSED SEWER CONVEYANCE AND STORAGE**

PROJ. NO. 13-0631
DATE:
SHEET 1 OF 1
DRAWING NO. **EXH 30**



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT: VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	MJB
DWN.	MJB
CHKD.	ELG
SCALE:	1"=
PLOT DATE:	
CAD USER:	
MODEL:	

TITLE: ALTERNATIVE 2 SOUTH DUNHURST PROPOSED CONDITIONS

PROJ. NO. 13-0631
DATE:
SHEET 1 OF 1
DRAWING NO. EXH 31



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT: ***VILLAGE OF WHEELING***

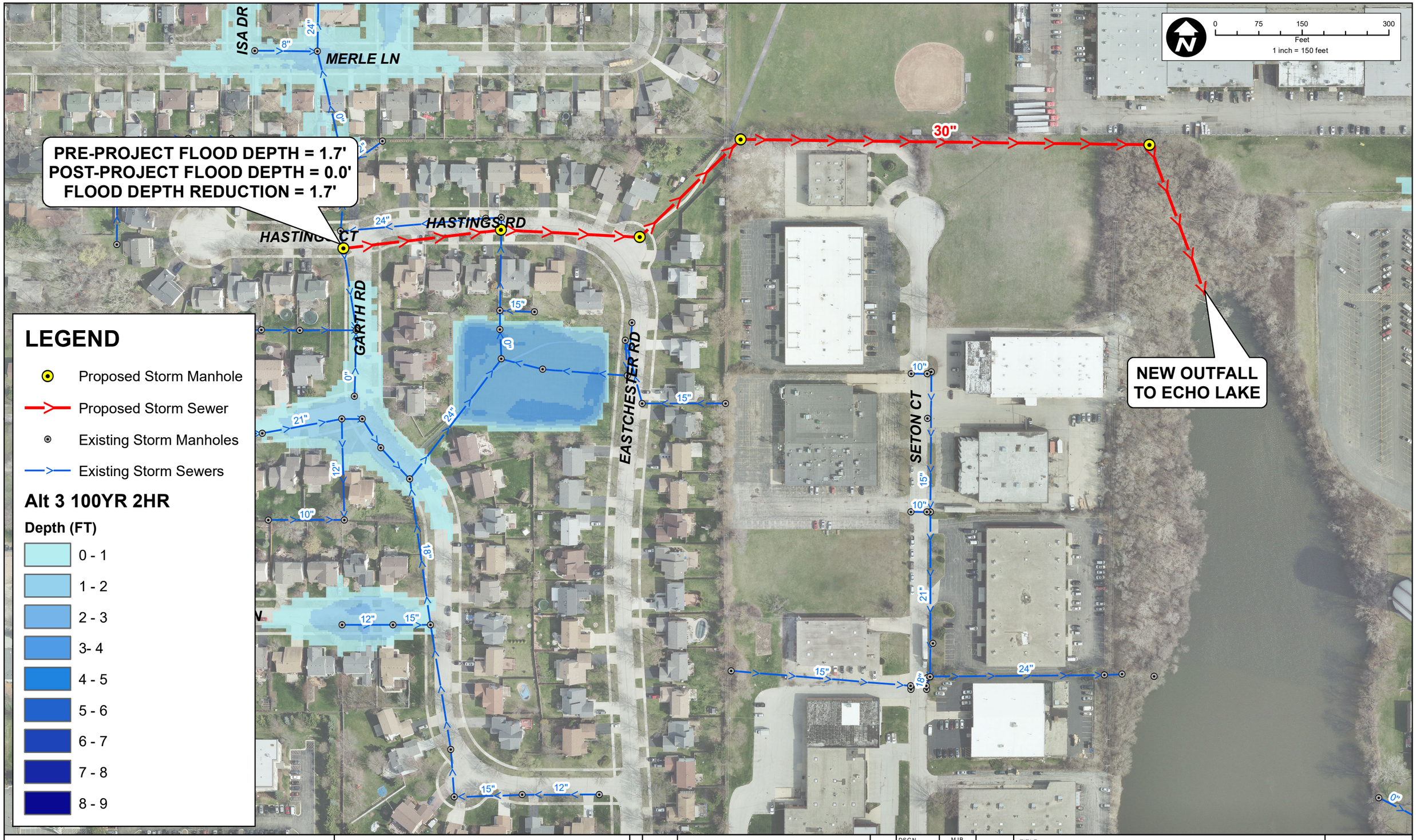
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME

DSGN.	MJB
DWN.	MJB
CHKD.	ELG
SCALE:	1"=
PLOT DATE:	
CAD USER:	
MODEL:	

TITLE: ***ALTERNATIVE 3 AS-BUILT EASTCHESTER STORM SEWER***

PROJ. NO. 13-0631
DATE:
SHEET 1 OF 1
DRAWING NO.
EXH 32



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Rosemont, Illinois 60018
(847) 823-0500

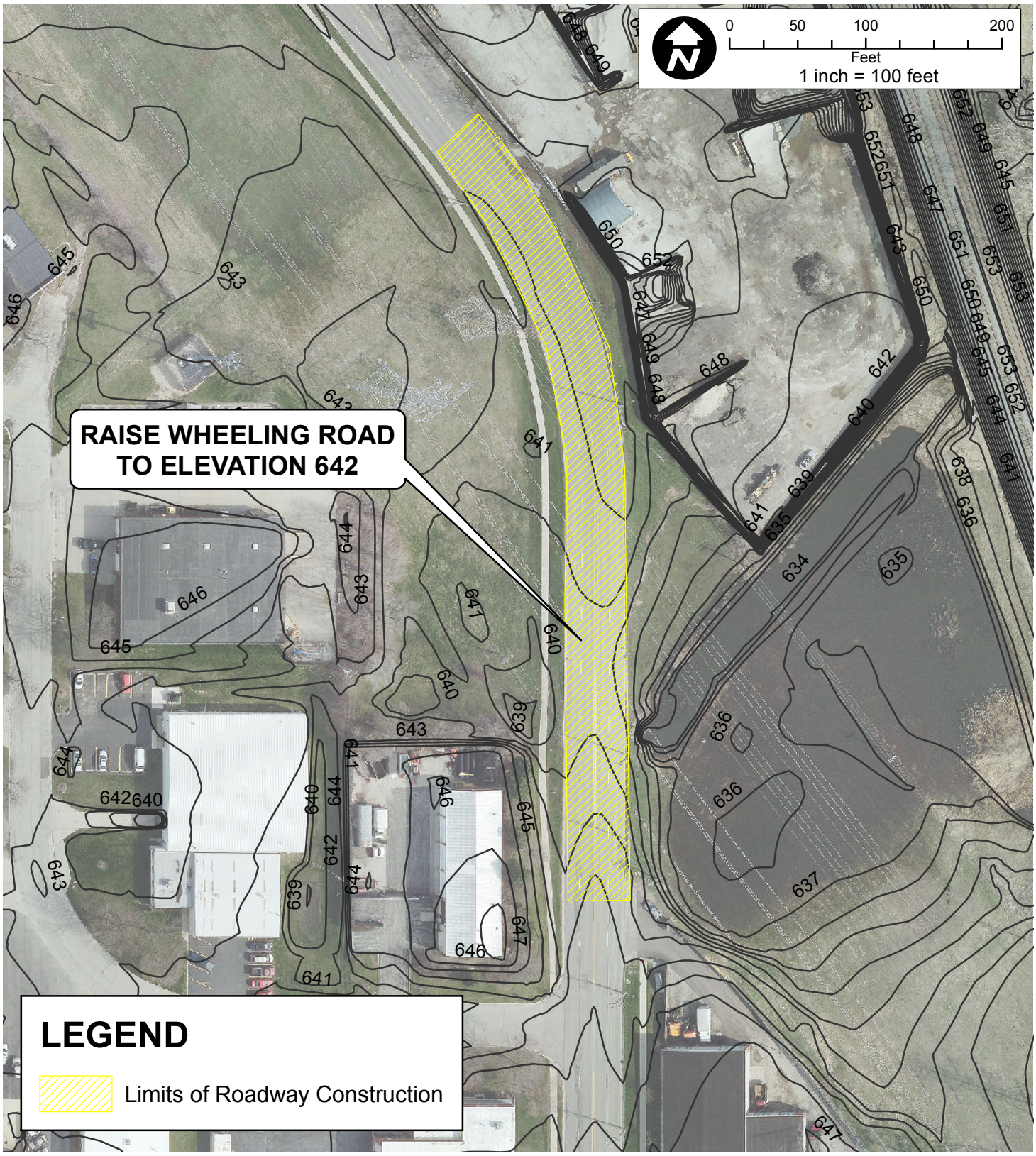
CLIENT:
VILLAGE OF WHEELING

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME			

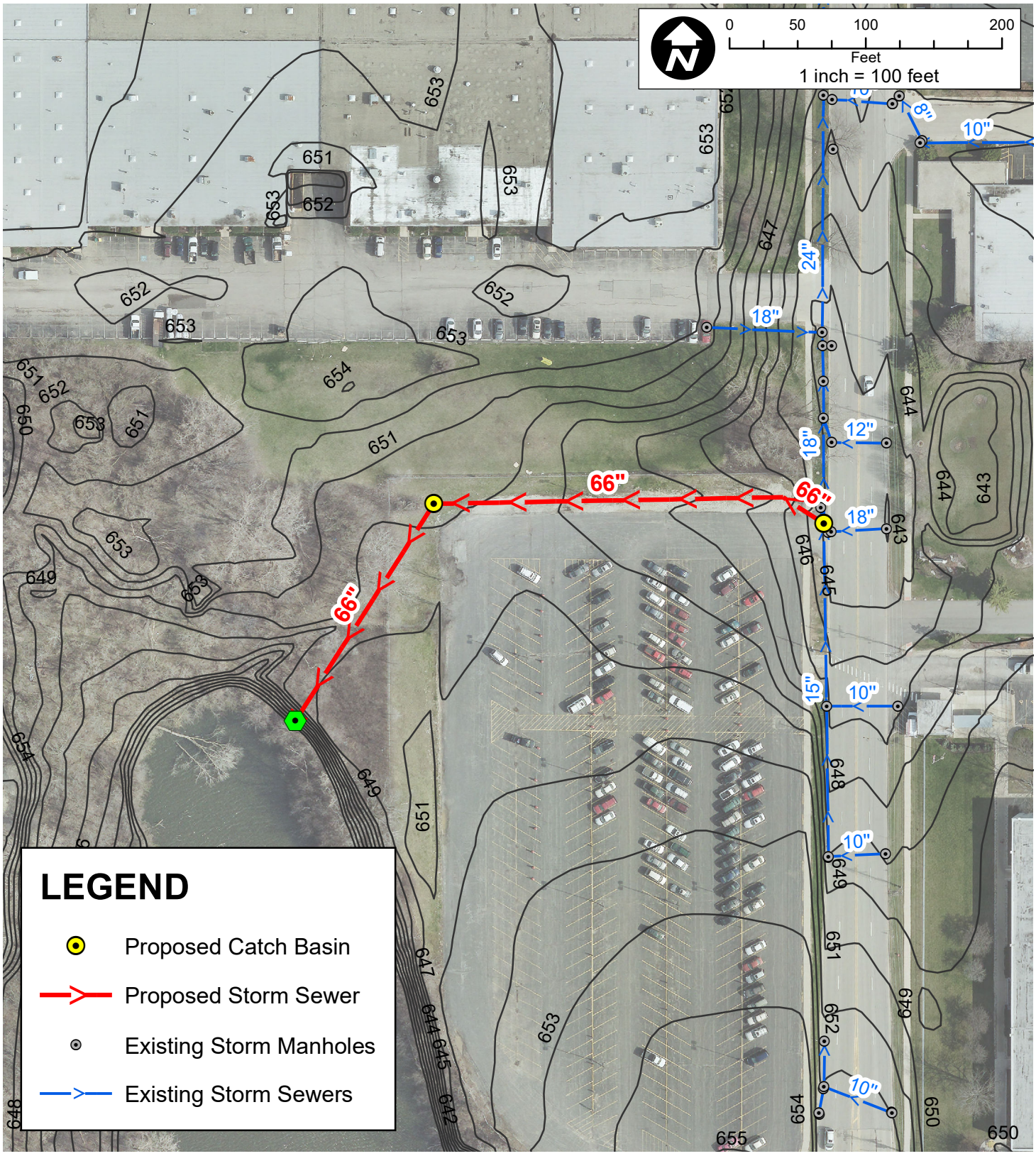
DSGN.	MJB
DWN.	MJB
CHKD.	ELG
SCALE:	1"=
PLOT DATE:	
CAD USER:	
MODEL:	

TITLE:
ALTERNATIVE 3
AS-BUILT EASTCHESTER SEWER
AS-BUILT FLOOD MAP

PROJ. NO. 13-0631
DATE:
SHEET 1 OF 1
DRAWING NO.
EXH 33



	DSGN. MJB	CHKD.	ELG
Christopher B. Burke Engineering, Ltd. 9575 West Higgins Road, Suite 600 Rosemont, IL 60018 (847) 823-0500 / FAX (847) 823-0520	CLIENT *VILLAGE OF WHEELING*	JOB# 13-0631	N W E S
	TITLE *ALTERNATIVE 4 RAISE NORTH WHEELING RD*		DATE 11/25/14
			EXH 34



		DSGN. MJB	CHKD.
Christopher B. Burke Engineering, Ltd. 9575 West Higgins Road, Suite 600 Rosemont, IL 60018 (847) 823-0500 / FAX (847) 823-0520	CLIENT **VILLAGE OF WHEELING**	JOB# 25-0120	N W E S
	TITLE **ALTERNATIVE 5 AS-BUILT SOUTH WHEELING ROAD PROPOSED RELIEF SEWER**	DATE 5/12/26	**EXH 35**

N

0 250 500 1,000

Feet

1 inch = 250 feet

SB 82
AREA = 35AC
CN = 86
Tc = 15

ECHO LAKE

NORTH RIDGEFIELD POND

SOUTH RIDGEFIELD POND

POLO RUN POND

SANDPEBBLE DETENTION POND

SB 1 AREA = 3.6AC CN = 83 Tc = 22
SB 2 AREA = 1.6AC CN = 82 Tc = 15
SB 3 AREA = 0.8AC CN = 82 Tc = 19
SB 4 AREA = 2.3AC CN = 83 Tc = 21
SB 5 AREA = 2.8AC CN = 83 Tc = 28
SB 6 AREA = 1AC CN = 83 Tc = 16
SB 7 AREA = 2.6AC CN = 83 Tc = 28
SB 8 AREA = 0.7AC CN = 85 Tc = 23
SB 9 AREA = 1AC CN = 83 Tc = 27
SB 10 AREA = 5AC CN = 83 Tc = 29
SB 11 AREA = 2.6AC CN = 82 Tc = 19
SB 12 AREA = 1.1AC CN = 83 Tc = 19
SB 13 AREA = 2AC CN = 82 Tc = 26
SB 15 AREA = 1AC CN = 83 Tc = 16
SB 16 AREA = 1.1AC CN = 87 Tc = 17
SB 17 AREA = 2.3AC CN = 83 Tc = 20
SB 18 AREA = 2.4AC CN = 82 Tc = 23
SB 19 AREA = 3.6AC CN = 83 Tc = 32
SB 20 AREA = 2.5AC CN = 83 Tc = 25
SB 21 AREA = 2.7AC CN = 83 Tc = 24
SB 22 AREA = 1.2AC CN = 83 Tc = 22
SB 23 AREA = 1.7AC CN = 80 Tc = 33
SB 24 AREA = 2.6AC CN = 83 Tc = 18
SB 25 AREA = 1.2AC CN = 83 Tc = 16
SB 26 AREA = 1.7AC CN = 83 Tc = 21
SB 27 AREA = 2.1AC CN = 83 Tc = 22
SB 28 AREA = 1.5AC CN = 83 Tc = 20
SB 29 AREA = 2.4AC CN = 83 Tc = 20
SB 30 AREA = 4.7AC CN = 83 Tc = 35
SB 31 AREA = 10.5AC CN = 82 Tc = 23
SB 32 AREA = 15.2AC CN = 82 Tc = 41
SB 33 AREA = 30.5AC CN = 84 Tc = 59
SB 34 AREA = 29AC CN = 83 Tc = 51
SB 35 AREA = 58.6AC CN = 83 Tc = 40
SB 36 AREA = 3.4AC CN = 92 Tc = 22
SB 37 AREA = 6.4AC CN = 83 Tc = 25
SB 38 AREA = 6AC CN = 83 Tc = 34
SB 39 AREA = 9.6AC CN = 85 Tc = 23
SB 40 AREA = 5.4AC CN = 89 Tc = 22
SB 41 AREA = 1.2AC CN = 83 Tc = 21
SB 42 AREA = 0.5AC CN = 83 Tc = 13
SB 43 AREA = 3.5AC CN = 83 Tc = 20
SB 45 AREA = 2.2AC CN = 92 Tc = 20
SB 46 AREA = 2.6AC CN = 92 Tc = 17
SB 47 AREA = 1.8AC CN = 83 Tc = 22
SB 48 AREA = 1.2AC CN = 83 Tc = 17
SB 49 AREA = 3.5AC CN = 83 Tc = 19
SB 50 AREA = 2AC CN = 83 Tc = 29
SB 51 AREA = 2.6AC CN = 83 Tc = 21
SB 53 AREA = 1.4AC CN = 83 Tc = 24
SB 54 AREA = 0.9AC CN = 83 Tc = 14
SB 55 AREA = 1.4AC CN = 83 Tc = 17
SB 56 AREA = 1.6AC CN = 83 Tc = 18
SB 58 AREA = 2.1AC CN = 83 Tc = 17
SB 59 AREA = 2.2AC CN = 89 Tc = 26
SB 60 AREA = 5.1AC CN = 78 Tc = 5
SB 61 AREA = 2.4AC CN = 83 Tc = 22
SB 62 AREA = 2.5AC CN = 83 Tc = 29
SB 63 AREA = 1AC CN = 83 Tc = 22
SB 64 AREA = 1.5AC CN = 79 Tc = 21
SB 66 AREA = 7.5AC CN = 78 Tc = 39
SB 67 AREA = 3.7AC CN = 83 Tc = 23
SB 68 AREA = 3.6AC CN = 83 Tc = 19
SB 69 AREA = 5.7AC CN = 83 Tc = 19
SB 70 AREA = 4.9AC CN = 83 Tc = 19
SB 71 AREA = 8.5AC CN = 83 Tc = 27
SB 72 AREA = 7.9AC CN = 90 Tc = 23
SB 73 AREA = 24.6AC CN = 83 Tc = 54
SB 74 AREA = 15AC CN = 83 Tc = 5
SB 75 AREA = 0.6AC CN = 83 Tc = 3
SB 76 AREA = 0.7AC CN = 83 Tc = 13
SB 77 AREA = 0.4AC CN = 83 Tc = 10
SB 78 AREA = 0.4AC CN = 83 Tc = 5
SB 79 AREA = 0.5AC CN = 83 Tc = 4
SB 80 AREA = 9.3AC CN = 81 Tc = 5
SB 81 AREA = 0.4AC CN = 83 Tc = 2

LEGEND

- Echo Lake Subbasins
- Storm Manholes
- Storm Sewers
- Village Boundary

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CLIENT: **VILLAGE OF WHEELING**

No.	DATE	NATURE OF REVISION
FILE NAME:		
DATE:		

DSN. MJB
CHKD. ELG
SCALE
GIS USER
MODEL ArcGIS 9.2

TITLE: **ECHO LAKE & RIDGEFIELD SUBBASIN MAP**

PROJ. NO. 13-0631
SHEET 1 OF 1
DRAWING NO. **EXH 36**

0 200 400 800
Feet
1 inch = 200 feet

100-YEAR FLOOD IMPACTS

22 FLOODED PARKING SPACES ON BRIDLE TRAIL

45 FLOODED PARKING SPACES IN SANDPEBBLE PARKING LOT

Parking Space w/ > 1FT Flooding

1 inch = 100 feet

10-YEAR FLOOD IMPACTS

8 FLOODED PARKING SPACES ON BRIDLE TRAIL

32 FLOODED PARKING SPACES IN SANDPEBBLE PARKING LOT

Parking Space w/ > 1FT Flooding

1 inch = 100 feet

ECHO LAKE
EXISTING NWL = 639.00
10-YR HWL = 643.42
100-YR HWL = 644.26

NORTH RIDGEFIELD POND
EXISTING NWL = 641.90
10-YR HWL = 645.99
100-YR HWL = 649.01

SOUTH RIDGEFIELD POND
EXISTING NWL = 643.43
10-YR HWL = 647.36
100-YR HWL = 652.84

POLO RUN POND
EXISTING NWL = 647.20
10-YR HWL = 653.29
100-YR HWL = 653.94

10-YR FLOOD DEPTH = 3.13
100-YR FLOOD DEPTH = 3.78

10-YR FLOOD DEPTH = 3.1
100-YR FLOOD DEPTH = 3.8

BRIDLE TRAIL

SANDPEBBLE PARKING LOT

LEGEND

- Storm Manholes
- Storm Sewers
- Echo Lake & Ridgefield Watershed Boundary
- Village Boundary

100YR 24HR

Depth (FT)

- 0 - 1
- 1 - 2
- 2 - 3
- 3- 4
- 4 - 5
- 5 - 6
- 6 - 7
- 7 - 8
- 8 - 9

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CLIENT:
VILLAGE OF WHEELING

No.	DATE	NATURE OF REVISION		
			DSN.	MJB
			CHKD.	ELG
			SCALE	
			GIS USER	
			MODEL	ArcGIS 9.2
FILE NAME:				
DATE:				

TITLE:
ECHO LAKE & RIDGEFIELD STUDY AREA EXISTING CONDITIONS

PROJ. NO. 13-0631
SHEET 1 OF 1
DRAWING NO.
EXH 37

0 75 150 300
Feet
1 inch = 150 feet

PEAR TREE LN

SOUTH RIDGEFIELD POND

WHEELING RD

PROPOSED
INVERT EL = 643.5

UNKNOWN

PLEASANT RUN DR

GILMAN AVE

EQUESTRIAN DR

POLO RUN POND
EX NWL EL = 647.2
PR NWL EL = 644
ADDITIONAL VOL = 5.4 AC-FT

PADDOCK

BRIDLE TRL

DERBY ST

CHUKKER CT

LONGACRE LN

EL 644
EL 651

PROPOSED SANDPEBBLE POND
EX GROUND EL = 650
PR NWL EL = 644.5
ADDITIONAL VOL = 2.2 AC-FT

EL 644.5
EL 651

SANDSTONE DR

SANDPEBBLE DR

LEGEND

- Proposed Storm Manhole
- Proposed Storm Sewer
- Proposed Grading
- Existing Storm Manholes
- Existing Storm Sewers

DSGN.	MJB	CHKD.	ELG

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9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

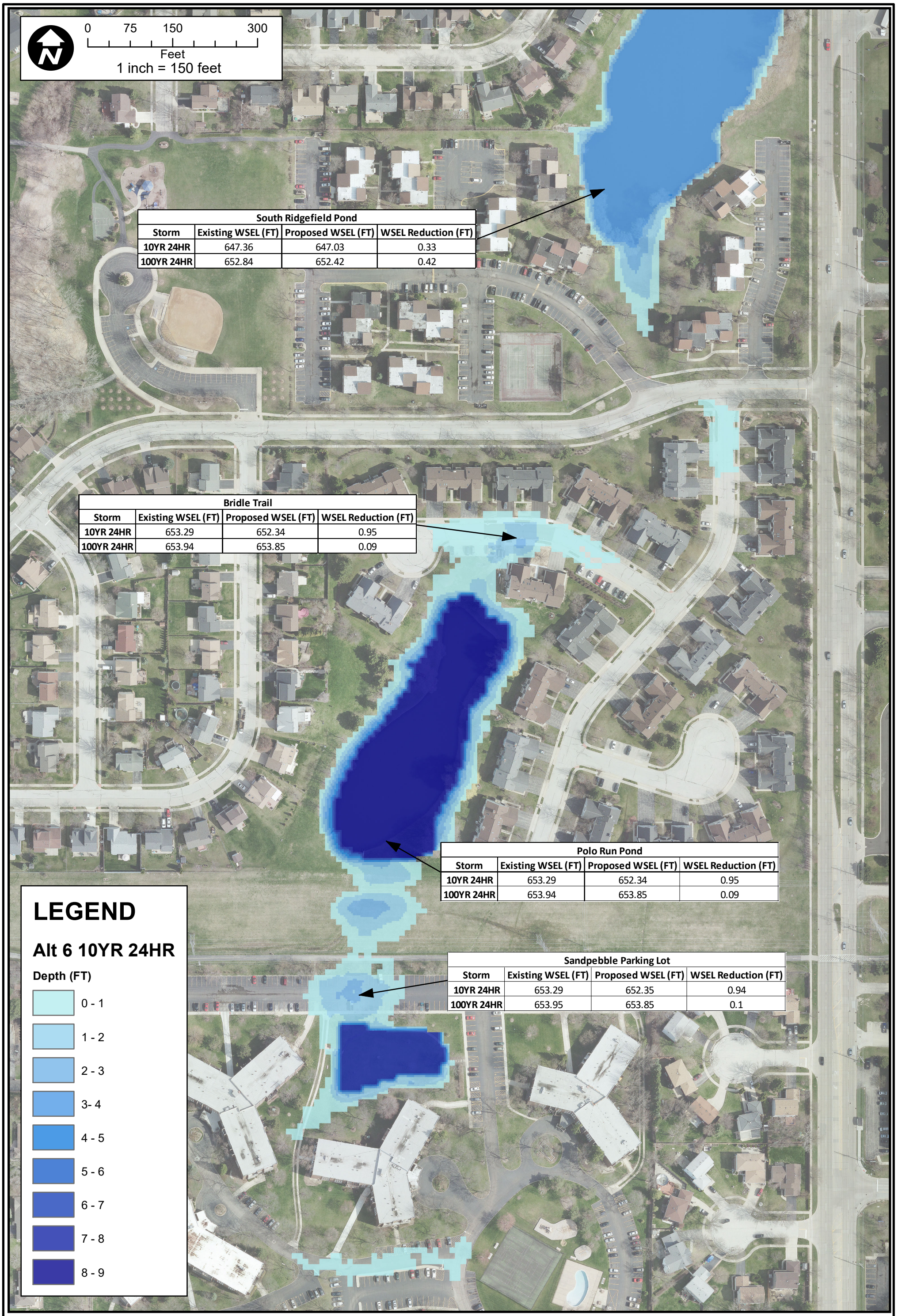
CLIENT: VILLAGE OF WHEELING

PROJECT NO.: 13-0631

TITLE: ALTERNATIVE 6 - ECHO LAKE & RIDGEFIELD SOUTH STORAGE AND CONVEYANCE IMPROVEMENTS

DATE: 12/2/14

EX 38



South Ridgefield Pond			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	647.36	647.03	0.33
100YR 24HR	652.84	652.42	0.42

Bridle Trail			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	653.29	652.34	0.95
100YR 24HR	653.94	653.85	0.09

Polo Run Pond			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	653.29	652.34	0.95
100YR 24HR	653.94	653.85	0.09

Sandpebble Parking Lot			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	653.29	652.35	0.94
100YR 24HR	653.95	653.85	0.1

DSGN.	MJB	CHKD.	

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

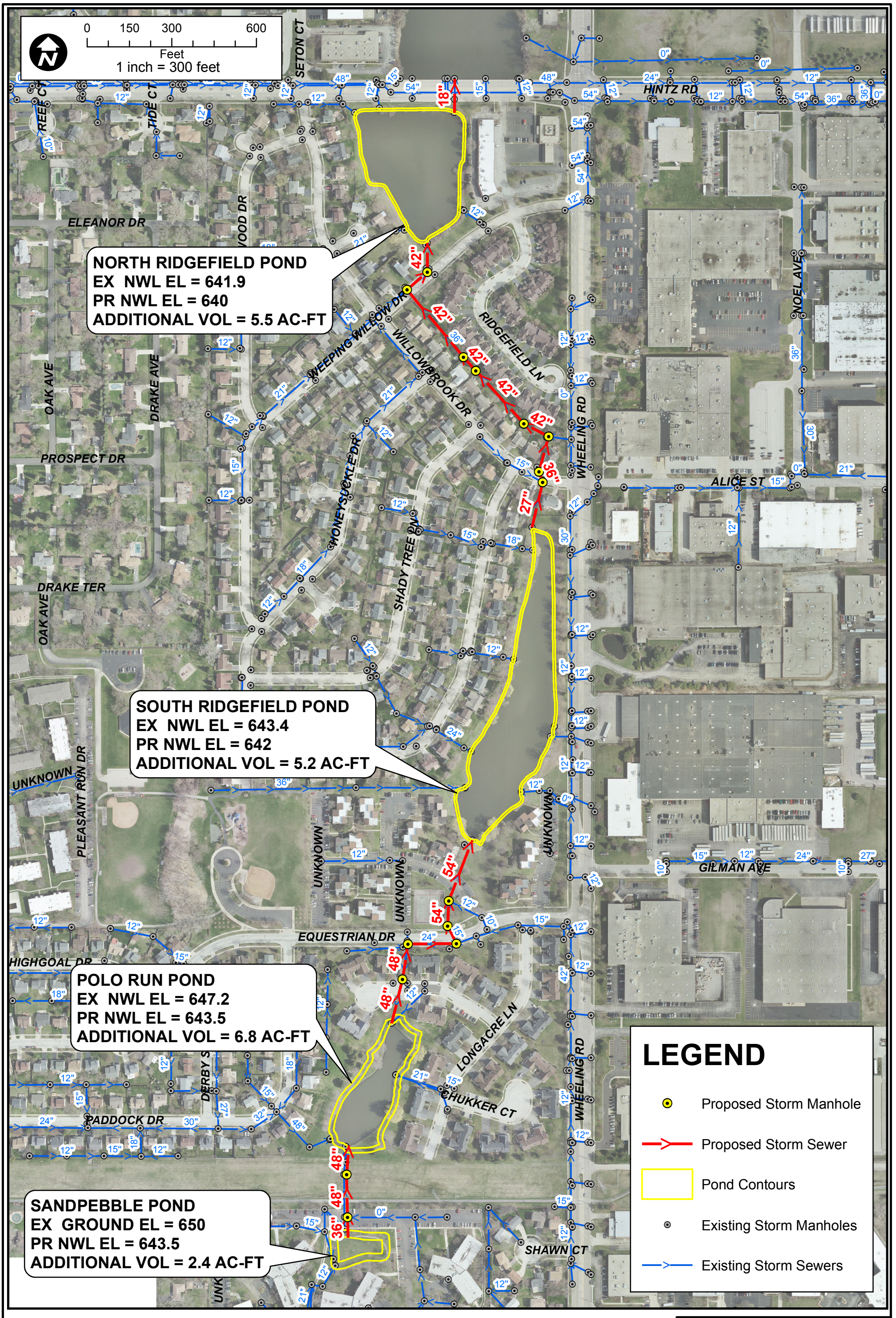
CLIENT: ***VILLAGE OF WHEELING***

PROJECT NO.: 13-0631

TITLE: ***ALTERNATIVE 6 - ECHO LAKE & RIDGEFIELD PROPOSED CONDITIONS (10-YEAR)***

DATE: 2/2/26

EX 39



DSGN.	MJB	CHKD.	ELG

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT	VILLAGE OF WHEELING
PROJECT NO.	13-0631
TITLE	ALTERNATIVE 7 - ECHO LAKE & RIDGEFIELD COMPREHENSIVE STORAGE AND CONVEYANCE IMPROVEMENTS
DATE	12/2/14
	EX 40

0 150 300 600
Feet
1 inch = 300 feet

Echo Lake			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	643.43	642.28	1.15
100YR 24HR	644.27	643.07	1.20

North Ridgefield Pond			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	645.99	645.72	0.27
100YR 24HR	649.01	648.99	0.02

South Ridgefield Pond			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	647.36	647.22	0.14
100YR 24HR	652.84	651.87	0.97

Bridle Trail			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	653.29	647.35	5.94
100YR 24HR	653.94	652.22	1.72

Polo Run Pond			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	653.29	647.39	5.90
100YR 24HR	653.94	652.23	1.71

Sandpebble Parking Lot			
Storm	Existing WSEL (FT)	Proposed WSEL (FT)	WSEL Reduction (FT)
10YR 24HR	653.29	647.41	5.88
100YR 24HR	653.95	652.28	1.67

LEGEND

Alt 7 100YR 24HR

Depth (FT)

- 0 - 1
- 1 - 2
- 2 - 3
- 3- 4
- 4 - 5
- 5 - 6
- 6 - 7
- 7 - 8
- 8 - 9

DSGN.	MJB	CHKD.	

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT: ***VILLAGE OF WHEELING***

PROJECT NO. 13-0631

TITLE: ***ALTERNATIVE 7 - ECHO LAKE & RIDGEFIELD PROPOSED CONDITIONS (100-YEAR)***

DATE 2/2/26

EX 41

Appendix 1
Cost Estimates

Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018

Village of Wheeling
Stormwater Estimates
(CBBEL Project No.: 250120)

Date: January 20, 2026
Calculated By: JMD
Checked By: WBL

Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018

Village of Wheeling
Stormwater Estimates
(CBBEL Project No.: 250120)

Date: August 6, 2025
Calculated By: JMD
Checked By: WBL

INTERSECTIONS	8
STORM END POINTS	2
# HOMES	45
RS AREA (SY)	9100
RC AREA (SY)	7200

	ITEM	UNIT	UNIT COST	JEFFREY AVE & MANCHESTER DR PROPOSED 10-YR QUANTITY	TOTAL COST	
SITE PREPARATION	TREE REMOVAL	L. SUM	$ 10,000.00	1	$ 10,000.00	$50,000
	TREE TRIMMING	L. SUM	$ 10,000.00	1	$ 10,000.00	
	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	$ 5.00	0	$ -	
	SEEDING, CLASS 1A	SQ YD	$ 5.00	0	$ -	
	EROSION CONTROL BLANKET	SQ YD	$ 5.00	0	$ -	
	TEMPORARY CONSTRUCTION FENCE, 6' CHAIN LINK	FOOT	$ 25.00	1,000	$ 25,000.00	
	PERIMETER EROSION BARRIER	FOOT	$ 5.00	1,000	$ 5,000.00	
STORM SEWER	TRENCH BACKFILL, SPECIAL	CU YD	$ 50.00	3,700	$ 185,000.00	$3,118,600
	EARTH EXCAVATION (UNDERGROUND STORAGE VAULT)	CU YD	$ 37.50	16,000	$ 600,000.00	
	UNDERGROUND STORAGE VAULT	AC-FT	$ 400,000.00	3.0	$ 1,200,000.00	
	STORM SEWER, RCP 6"	FOOT	$ 75.00	80	$ 6,000.00	
	STORM SEWER, RCP 12" (LATERALS)	FOOT	$ 100.00	900	$ 90,000.00	
	STORM SEWER, RCP 24"	FOOT	$ 200.00	850	$ 170,000.00	
	STORM SEWER, RCP 36"	FOOT	$ 300.00	1,600	$ 480,000.00	
	STORM SEWER, RCP 48"	FOOT	$ 450.00	100	$ 45,000.00	
	STORM SEWER REMOVAL	FOOT	$ 20.00	3,530	$ 70,600.00	
	DRAINAGE STRUCTURE REMOVAL	EACH	$ 1,000.00	45	$ 45,000.00	
	INLET, TYPE A, HIGH CAPACITY FRAME AND GRATE	EACH	$ 3,000.00	40	$ 120,000.00	
	MANHOLES, 4'-DIAMETER, TYPE A, T1F CL	EACH	$ 5,000.00	2	$ 10,000.00	
	MANHOLES, 5'-DIAMETER, TYPE A, T1F CL	EACH	$ 7,000.00	7	$ 49,000.00	
	MANHOLES, 6'-DIAMETER, TYPE A, T1F CL	EACH	$ 8,000.00	3	$ 24,000.00	
	MANHOLES, 7'-DIAMETER, TYPE A, T1F CL	EACH	$ 12,000.00	2	$ 24,000.00	
PAVEMENT	PAVEMENT REMOVAL	SQ YD	$ 25.00	7,200	$ 180,000.00	$1,234,160
	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	$ 6.00	9,100	$ 54,600.00	
	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	$ 100.00	120	$ 12,000.00	
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	$ 100.00	120	$ 12,000.00	
	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	$ 3.00	600	$ 1,800.00	
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	TON	$ 105.00	770	$ 80,850.00	
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	TON	$ 105.00	810	$ 85,050.00	
	LEVELING BINDER (MACHINE METHOD), N50, 0.75"	TON	$ 110.00	390	$ 42,900.00	
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50, 4"	TON	$ 105.00	1,620	$ 170,100.00	
	AGGREGATE BASE COURSE, TYPE B, 12"	SQ YD	$ 15.00	7,200	$ 108,000.00	
	BITUMINOUS MATERIALS (TACK COAT)	POUND	$ 1.00	11,010	$ 11,010.00	
	CLASS D PATCHES, 6" (SPECIAL)	SQ YD	$ 75.00	1,660	$ 124,500.00	
	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	$ 50.00	4,060	$ 203,000.00	
	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	$ 25.00	3,200	$ 80,000.00	
	DETECTABLE WARNINGS	SQ FT	$ 40.00	640	$ 25,600.00	
	DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	$ 75.00	570	$ 42,750.00	
UTIL.	RELOCATE / ADJUST WATER MAIN	FOOT	$ 300.00	200	$ 60,000.00	$187,000
	REMOVE AND REPLACE SANITARY SEWER	FOOT	$ 175.00	200	$ 35,000.00	
	ADJUST WATER SERVICES	EACH	$ 2,500.00	23	$ 57,500.00	
	ADJUST SANITARY SERVICES	EACH	$ 1,500.00	23	$ 34,500.00	
MISC.	MISCELLANEOUS SESC MEASURES	L. SUM	+/- 1.0%	1	$ 50,000.00	$570,000
	PAVEMENT MARKINGS	L. SUM		1	$ 20,000.00	
	MOBILIZATION	L. SUM	+/- 5.0%	1	$ 250,000.00	
	TRAFFIC CONTROL AND PROTECTION	L. SUM	+/- 2.5%	1	$ 125,000.00	
	CONSTRUCTION LAYOUT	L. SUM	+/- 2.5%	1	$ 125,000.00	

NOTES:

1. THIS ESTIMATE DOES NOT INCLUDE ROW ACQUISITION, TEMPORARY OR CONSTRUCTION EASEMENTS, OR RELOCATING ANY EXISTING UTILITES.
2. THIS ESTIMATE ASSUMES 2025 CONSTRUCTION COSTS.
3. THIS ESTIMATE ASSUMES ALL EXCAVATED MATERIAL TO BE HAULED-OFF MEETS CCDD REQUIREMENTS.
4. THIS ESTIMATE DOES NOT INCLUDE ANY BUILDING DEMOLITION.
5. AT THE TIME THIS ESTIMATE WAS PREPARED, CBBEL DID NOT HAVE ACCESS TO THE VILLAGE WATER MAIN ATLAS.
6. FOR MANCHESTER DR - THIS ESTIMATE ASSUMES ALL ROADWAYS WITH PROPOSED STORM SEWER WILL BE RESURFACED.
7. FOR JACKSON DR - THIS ESTIMATE ASSUMES JACKSON DR (STORM SEWER START TO HINTZ RD) WILL BE RESURFACED.
8. THIS ESTIMATE ASSUMES EACH INTERSECTION WHERE STORM SEWER IS PROPOSED INCLUDES 200 FEET OF CONCRETE C&G R&R, 400 SQUARE FEET OF PCC SIDEWALK R&R, 80 SQUARE FEET OF DETECTABLE WARNINGS, 4 INLETS, AND 100 FEET OF LATERAL 12" RCP STORM SEWER.
9. THIS ESTIMATE ASSUMES EACH STORM END POINT INCLUDES 30 FEET OF CONCRETE C&G R&R, 4 INLETS, AND 50 FEET OF LATERAL 12" RCP STORM SEWER.
10. THIS ESTIMATE ASSUMES 25 FEET OF WATER MAIN AND 25 FEET OF SANITARY SEWER WILL BE ADJUSTED / REMOVED AND REPLACED AT EACH INTERSECTION.
11. THIS ESTIMATE ASSUMES 50% OF DRIVEWAYS (15'x15') WILL BE REMOVED AND REPLACED FOR RESURFACED ROADWAYS.
12. FOR MANCHESTER DR - THIS ESTIMATE ASSUMES THE ENTIRE PARKING LOT WHERE THE STORAGE VAULT IS PROPOSED WILL BE RECONSTRUCTED WITH 6" OF HMA PAVEMENT AND 12" OF AGGREGATE.

SUBTOTAL =	**$**	**5,159,760.00**
CONTINGENCY (20%) =	$	1,032,000.00
CONSTRUCTION TOTAL =	**$**	**6,191,760.00**
DESIGN ENGINEERING (7.5%) =	$	464,400.00
CONSTRUCTION ENGINEERING (7.5%) =	$	464,400.00
PERMITTING (1.5%) =	$	92,900.00
TOTAL COST OF IMPROVEMENTS =	**$**	**7,213,460.00**

Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018

Village of Wheeling
Stormwater Estimates
(CBBEL Project No.: 250120)

Date: April 21, 2026
Calculated By: JMD
Checked By: WBL

	1ST AND DEBORAH		ALT 6 - ECHO LAKE & RIDGEFIELD SOUTH STORAGE		ALT 7 - ECHO LAKE & RIDGEFIELD COMPREHENSIVE STORAGE	
INTERSECTIONS	0		0		0	
STORM END POINTS	0		2		6	
# HOMES	0		0		0	
RS AREA (SY)	0		0		1700	
RC AREA (SY)	0		0		0	

	ITEM	UNIT	UNIT COST	1ST AND DEBORAH QUANTITY	1ST AND DEBORAH TOTAL COST		ALT 6 QUANTITY	ALT 6 TOTAL COST		ALT 7 QUANTITY	ALT 7 TOTAL COST	
SITE PREPARATION	TREE/ SHRUB REMOVAL	L. SUM	$ 100,000.00	0.10	$ 10,000.00		0.25	$ 25,000.00		1	$ 100,000.00	
	TREE TRIMMING	L. SUM	$ 10,000.00	0.5	$ 5,000.00		1	$ 10,000.00		1	$ 10,000.00	
	EARTH EXCAVATION	CU YD	$ 60.00	0.0	$ -		14,800	$ 888,000.00		17,900	$ 1,074,000.00	
	LAKE EXCAVATION / GRADING	CU YD	$ 75.00	0.0	$ -		0	$ -		9,500	$ 712,500.00	
	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	$ 5.00	300	$ 1,500.00		16,000	$ 80,000.00		33,100	$ 165,500.00	
	SEEDING, CLASS 1A	SQ YD	$ 5.00	300	$ 1,500.00		13,600	$ 68,000.00		25,700	$ 128,500.00	
	SEEDING, CLASS 4A	SQ YD	$ 7.50	0	$ -	$39,500	2,200	$ 16,500.00	$1,242,500	6,700	$ 50,250.00	$2,586,250
	EROSION CONTROL BLANKET	SQ YD	$ 5.00	300	$ 1,500.00		16,000	$ 80,000.00		33,100	$ 165,500.00	
	CHAIN LINK FENCE REMOVAL AND RE-ERECTION	FOOT	$ 200.00	100	$ 20,000.00		0	$ -		0	$ -	
	WOOD FENCE REMOVAL AND REPLACEMENT	FOOT	$ 150.00	0	$ -		0	$ -		700	$ 105,000.00	
	TEMPORARY CONSTRUCTION FENCE, 6' CHAIN LINK	FOOT	$ 25.00	0	$ -		2,500	$ 62,500.00		2,500	$ 62,500.00	
	PERIMETER EROSION BARRIER	FOOT	$ 5.00	0	$ -		2,500	$ 12,500.00		2,500	$ 12,500.00	
STORM SEWER	TRENCH BACKFILL, SPECIAL	CU YD	$ 50.00	30	$ 1,500.00		400	$ 20,000.00		2,100	$ 105,000.00	
	STORM SEWER, RCP 12" (LATERALS)	FOOT	$ 130.00	0	$ -		100	$ 13,000.00		300	$ 39,000.00	
	STORM SEWER, RCP 12"	FOOT	$ 130.00	120	$ 15,600.00		740	$ 96,200.00		0	$ -	
	STORM SEWER, RCP 18"	FOOT	$ 180.00	0	$ -		0	$ -		150	$ 27,000.00	
	STORM SEWER, RCP 27"	FOOT	$ 275.00	0	$ -		0	$ -		200	$ 55,000.00	
	STORM SEWER, RCP 36"	FOOT	$ 400.00	0	$ -		330	$ 132,000.00		250	$ 100,000.00	
	STORM SEWER, RCP 42"	FOOT	$ 450.00	0	$ -		0	$ -		950	$ 427,500.00	
	STORM SEWER, RCP 48"	FOOT	$ 475.00	0	$ -		0	$ -		750	$ 356,250.00	
	STORM SEWER, RCP 54"	FOOT	$ 500.00	0	$ -		0	$ -		400	$ 200,000.00	
	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 18" (14" x 23")	FOOT	$ 300.00	70	$ 21,000.00		0	$ -		0	$ -	
	STEEL CASING PIPE, AUGURED AND JACKED IN PLACE, 36"	FOOT	$ 1,300.00	0	$ -		0	$ -		150	$ 195,000.00	
	STORM SEWER REMOVAL	FOOT	$ 30.00	50	$ 1,500.00		200	$ 6,000.00		3,000	$ 90,000.00	
	DRAINAGE STRUCTURE REMOVAL	EACH	$ 1,000.00	2	$ 2,000.00		5	$ 5,000.00		25	$ 25,000.00	
	INLET, TYPE A, HIGH CAPACITY FRAME AND GRATE	EACH	$ 3,500.00	0	$ -	$91,100	8	$ 28,000.00	$374,200	24	$ 84,000.00	$2,018,250
	MANHOLES, 4'-DIAMETER, TYPE A, T1F CL	EACH	$ 6,000.00	2	$ 12,000.00		3	$ 18,000.00		0	$ -	
	MANHOLES, 5'-DIAMETER, TYPE A, T1F CL	EACH	$ 7,500.00	3	$ 22,500.00		0	$ -		0	$ -	
	MANHOLES, 6'-DIAMETER, TYPE A, T1F CL	EACH	$ 10,000.00	0	$ -		2	$ 20,000.00		5	$ 50,000.00	
	MANHOLES, 7'-DIAMETER, TYPE A, T1F CL	EACH	$ 15,000.00	0	$ -		0	$ -		3	$ 45,000.00	
	MANHOLES, 8'-DIAMETER, TYPE A, T1F CL	EACH	$ 18,000.00	0	$ -		0	$ -		6	$ 108,000.00	
	MANHOLES, 9'-DIAMETER, TYPE A, T1F CL	EACH	$ 30,000.00	0	$ -		0	$ -		1	$ 30,000.00	
	STONE RIPRAP AND FILTER FABRIC	SQ YD	$ 150.00	40	$ 6,000.00		80	$ 12,000.00		160	$ 24,000.00	
	PRECAST REINFORCED CONCRETE FLARED END SECTION, 12"	EACH	$ 4,000.00	1	$ 4,000.00		2	$ 8,000.00		0	$ -	
	PRECAST REINFORCED CONCRETE FLARED END SECTION, 18"	EACH	$ 4,250.00	0	$ -		0	$ -		2	$ 8,500.00	
	PRECAST REINFORCED CONCRETE FLARED END SECTION, 27"	EACH	$ 4,500.00	0	$ -		0	$ -		1	$ 4,500.00	
	PRECAST REINFORCED CONCRETE FLARED END SECTION, 36"	EACH	$ 8,000.00	0	$ -		2	$ 16,000.00		1	$ 8,000.00	
	PRECAST REINFORCED CONCRETE FLARED END SECTION, 42"	EACH	$ 8,500.00	0	$ -		0	$ -		1	$ 8,500.00	
	PRECAST REINFORCED CONCRETE FLARED END SECTION, 48"	EACH	$ 9,000.00	0	$ -		0	$ -		2	$ 18,000.00	
	PRECAST REINFORCED CONCRETE FLARED END SECTION, 54"	EACH	$ 10,000.00	0	$ -		0	$ -		1	$ 10,000.00	
	PRECAST REINFORCED CONCRETE FLARED END SECTION - EERS 18"	EACH	$ 5,000.00	1	$ 5,000.00		0	$ -		0	$ -	
PAVEMENT	PAVEMENT REMOVAL	SQ YD	$ 25.00	0	$ -		0	$ -		0	$ -	
	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	$ 6.00	0	$ -		0	$ -		1,700	$ 10,200.00	
	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	$ 100.00	0	$ -		0	$ -		0	$ -	
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	$ 100.00	0	$ -		0	$ -		0	$ -	
	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	$ 3.00	0	$ -		0	$ -		0	$ -	
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	TON	$ 105.00	0	$ -		0	$ -		150	$ 15,750.00	
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	TON	$ 110.00	0	$ -		0	$ -		0	$ -	
	LEVELING BINDER (MACHINE METHOD), N50, 0.75"	TON	$ 120.00	0	$ -		0	$ -		80	$ 9,600.00	
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50, 4"	TON	$ 105.00	0	$ -	$23,100	0	$ -	$82,500	0	$ -	$503,200
	AGGREGATE BASE COURSE, TYPE B, 12"	SQ YD	$ 18.00	0	$ -		0	$ -		0	$ -	
	BITUMINOUS MATERIALS (TACK COAT)	POUND	$ 1.00	0	$ -		0	$ -		1,150	$ 1,150.00	
	CLASS D PATCHES, 6" (SPECIAL)	SQ YD	$ 100.00	80	$ 8,000.00		250	$ 25,000.00		1,890	$ 189,000.00	
	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	$ 75.00	100	$ 7,500.00		300	$ 22,500.00		800	$ 60,000.00	
	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	$ 30.00	200	$ 6,000.00		500	$ 15,000.00		3,250	$ 97,500.00	
	DETECTABLE WARNINGS	SQ FT	$ 40.00	40	$ 1,600.00		0	$ -		0	$ -	
	DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	$ 200.00	0	$ -		100	$ 20,000.00		600	$ 120,000.00	
UTIL.	RELOCATE / ADJUST WATER MAIN	FOOT	$ 400.00	0	$ -		100	$ 40,000.00		700	$ 280,000.00	
	REMOVE AND REPLACE SANITARY SEWER	FOOT	$ 300.00	0	$ -		100	$ 30,000.00		700	$ 210,000.00	
	ADJUST WATER SERVICES	EACH	$ 4,000.00	0	$ -	$0	2	$ 8,000.00	$85,000	20	$ 80,000.00	$640,000
	ADJUST SANITARY SERVICES	EACH	$ 3,500.00	0	$ -		2	$ 7,000.00		20	$ 70,000.00	
MISC.	MISCELLANEOUS SESC MEASURES	L. SUM	+/- 1.0%	1	$ 2,000.00		1	$ 25,000.00		1	$ 70,000.00	
	PAVEMENT MARKINGS	L. SUM		1	$ 2,500.00		1	$ 5,000.00		1	$ 7,500.00	
	TEMPORARY ACCESS MATTING	SY	$ 60.00	0	$ -	$28,500	340	$ 20,400.00	$600,400	340	$ 20,400.00	$1,397,900
	COFFERDAM / DEWATERING	L. SUM		0	$ -		1	$ 250,000.00		1	$ 500,000.00	
	MOBILIZATION	L. SUM	+/- 6.0%	1	$ 12,000.00		1	$ 150,000.00		1	$ 400,000.00	
	TRAFFIC CONTROL AND PROTECTION	L. SUM	+/- 3.0%	1	$ 6,000.00		1	$ 75,000.00		1	$ 200,000.00	
	CONSTRUCTION LAYOUT	L. SUM	+/- 3.0%	1	$ 6,000.00		1	$ 75,000.00		1	$ 200,000.00	

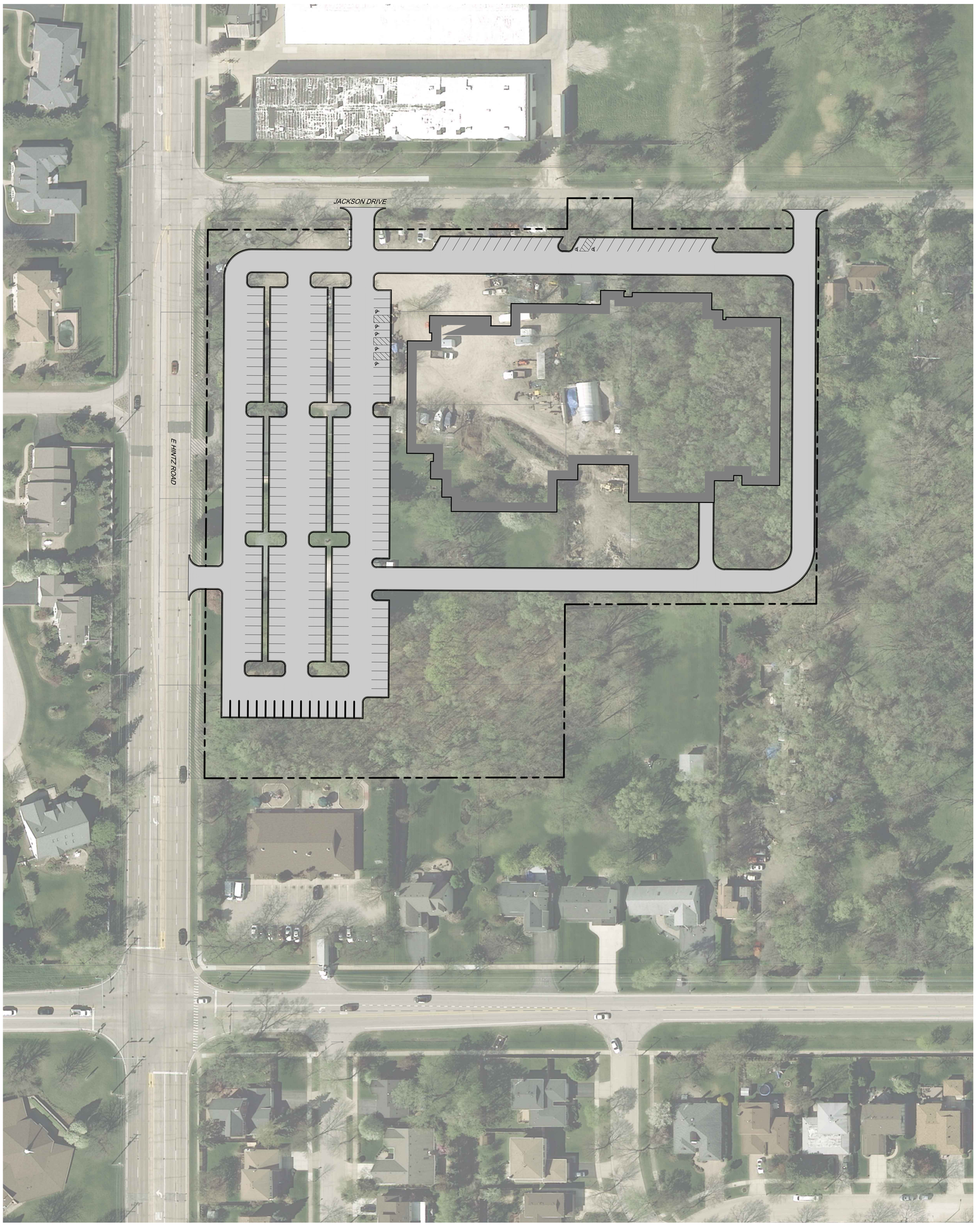
SUBTOTAL =	**$ 182,200.00**	**$ 2,384,600.00**	**$ 7,145,600.00**
CONTINGENCY (25%) =	$ 45,600.00	$ 596,200.00	$ 1,786,400.00
CONSTRUCTION TOTAL =	**$ 227,800.00**	**$ 2,980,800.00**	**$ 8,932,000.00**
DESIGN ENGINEERING (7.5%) =	$ 17,100.00	$ 223,600.00	$ 669,900.00
CONSTRUCTION ENGINEERING (7.5%) =	$ 17,100.00	$ 223,600.00	$ 669,900.00
PERMITTING (1.5%) =	$ 3,500.00	$ 44,800.00	$ 134,000.00
TOTAL COST OF IMPROVEMENTS =	**$ 265,500.00**	**$ 3,472,800.00**	**$ 10,405,800.00**

NOTES:

1. THIS ESTIMATE DOES NOT INCLUDE ROW / LAND ACQUISITION, TEMPORARY OR CONSTRUCTION EASEMENTS, OR RELOCATING ANY EXISTING (PUBLIC OR PRIVATE) UTILITIES.
2. THIS ESTIMATE ASSUMES APRIL 2026 CONSTRUCTION COSTS.
3. THIS ESTIMATE ASSUMES ALL EXCAVATED MATERIAL TO BE HAULED-OFF MEETS CCDD REQUIREMENTS.
4. THIS ESTIMATE DOES NOT INCLUDE ANY BUILDING DEMOLITION.
5. AT THE TIME THIS ESTIMATE WAS PREPARED, CBBEL DID NOT HAVE ACCESS TO THE VILLAGE WATER MAIN ATLAS.
6. THIS ESTIMATE ASSUMES EACH STORM END POINT INCLUDES 30 FEET OF CONCRETE C&G R&R, 4 INLETS, AND 50 FEET OF LATERAL 12" RCP STORM SEWER.
7. 1ST & DEBORAH - THIS ESTIMATE ASSUMES DEBORAH AVE WILL BE PATCHED (NO RESURFACING).
8. ALT 6 - THIS ESTIMATE ASSUMES EARTH EXCAVATION FOR PR SANDPEBBLE POND AND EXPANSION OF EX POLO RUN POND.
9. ALT 6 - THIS ESTIMATE ASSUMES 10 FEET OF NATIVE RESTORATION (SEEDING 4A) ALONG PERIMETER OF SANDPEBBLE AND POLO RUN PONDS.
10. ALT 6 - THIS ESTIMATE ASSUMES PAVEMENT PATCHING FOR AREAS OF STORM SEWER CROSSING EXISTING ROADWAYS.
11. ALT 7 - THIS ESTIMATE ASSUMES EARTH EXCAVATION FOR PR SANDPEBBLE POND AND EXPANSION OF EX POLO RUN POND; AND LAKE EXCAVATION / GRADING AROUND THE PERIMETER OF NORTH & SOUTH RIDGEFIELD PONDS.
12. ALT 7 - THIS ESTIMATE ASSUMES 10 FEET OF NATIVE RESTORATION (SEEDING 4A) ALONG PERIMETER OF SANDPEBBLE POND, POLO RUN POND, AND NORTH & SOUTH RIDGEFIELD PONDS.
13. ALT 7 - THIS ESTIMATE ASSUMES PAVEMENT PATCHING FOR AREAS OF STORM SEWER CROSSING EXISTING ROADWAYS, EXCEPT FOR THE PR STORM SEWER AREAS ON EQUESTRIAN DR AND WEEPING WILLOW DR (ONLY RESURFACING AREAS IMPACTED).

Appendix 2
Plan Sets Used for Supplemental Information

- Early Learning Center Site Plan Exhibit, Cage Civil Engineering – April 3, 2025
- Jackson Drive Lift Station, Hager Engineering – July 9, 2015
- 1st Street and Deborah Lane Existing Conditions – January 14, 2025
- Drainage and Utilities Wolf Road, Baxter and Woodman – January 10, 2020
- Dunhurst Relief Storm Sewer Improvement Plans, Hager Engineering – February 21, 2020
- Bridget and Wayne Storm Sewer Improvements, Village of Wheeling – March 27, 2018
- Cambridge on the Lake Lift Station Reconstruction As-Built Plans, Ciorba Group – July 14, 2023
- 2020 MFT Street Improvement Program, Hager Engineering – March 6, 2020
- Proposed Shoreline Stabilization & Pond/Bank Improvements, Norman J. Toberman & Associates, LLC. Consulting Engineers & Surveyors – July 12, 2016
- South Dunhurst Stormwater Improvements Phase 1 As-Built Plans, Berger Contractors – October 28, 2025
- South Dunhurst Stormwater Improvements Phase 2 Engineering Plans, Baxter & Woodman – February 3, 2025
- South Dunhurst Stormwater Improvements Phase 2 As-Built Plans, Martam Construction – January 15, 2026
- South Wheeling Road Drainage Improvements, Ciorba Group, July 23, 2018
- Eastchester Relief Storm Sewer, Hager Engineering – March 26, 2020



0
1" = 50' (HORIZONTAL)
50'
100'

SHEET NUMBER
EX 2
1 OF 1

SHEET TITLE
SITE PLAN EXHIBIT

DRG. JDL
DATE: 04/03/2025

PROJ NO: 240358

CCSD 21

EARLY LEARNING CENTER

NE CORNER OF E HINTZ RD AND JACKSON DR
WHEELING, IL

REVISIONS

THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF CAGE CIVIL ENGINEERING. THEY ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CAGE CIVIL ENGINEERING.

CAGE CIVIL ENGINEERING
2200 CABOT DRIVE
SUITE 325
LISLE, IL 60532
P: 630.598.0007
WWW.CAGECIVIL.COM

JACKSON DRIVE LIFT STATION
VILLAGE OF WHEELING, ILLINOIS
ENGINEERING IMPROVEMENT PLANS
SECTION 9 TOWNSHIP 42 NORTH RANGE 11 EAST
COOK COUNTY

VILLAGE OF WHEELING - VILLAGE HALL:
2 Community Boulevard
Wheeling, IL 60090
Tel: 847-459-2600
Fax: 847-459-9692

VILLAGE OF WHEELING - PUBLIC WORKS:
77 W. Hintz Road
Wheeling, IL 60090
Tel: 847-279-6900
Fax: 847-279-6420

PREPARED BY:
Haeger Engineering LLC
Illinois Prof. Design Firm □184-003152
1304 N. Plum Grove Road
Schaumburg, IL 60173
Tel: 847-394-6600
Fax: 847-394-6608
www.haegerengineering.com

BENCHMARKS:

VILLAGE OF WHEELING BM-22

2.5" Aluminum Disk Stamped 'Village of Wheeling - Survey Marker' on the south side of Hintz Rd. Bridge, approximately 500' west of Wheeling Rd.

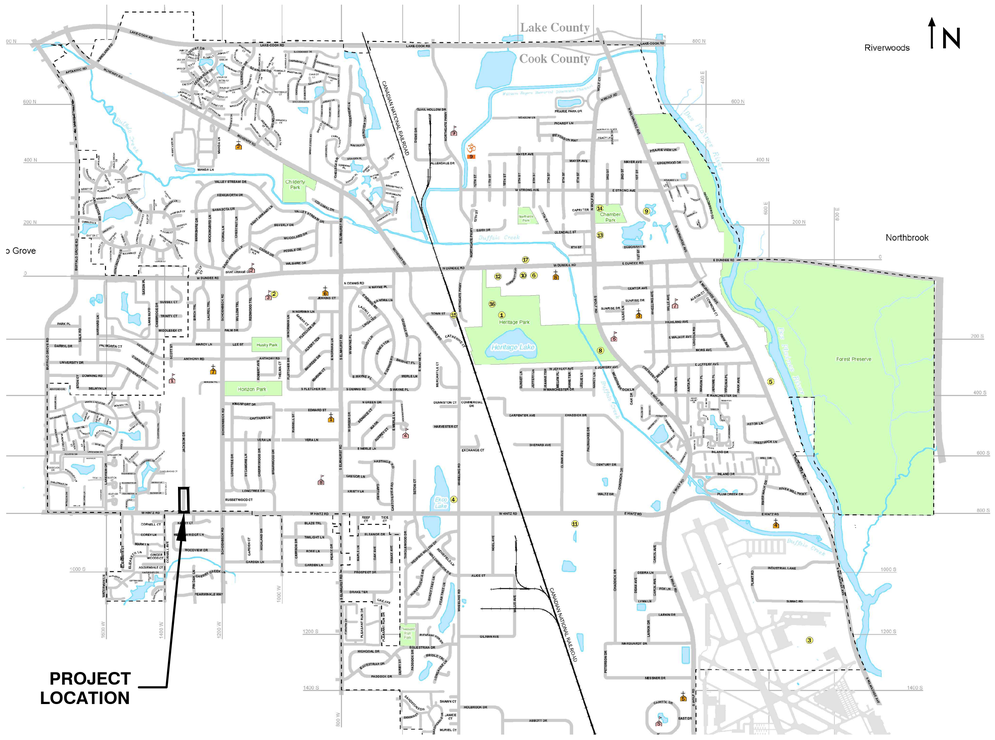
Elevation □649.119 (NAVD 88)

VILLAGE OF WHEELING BM-15

2.5" Aluminum Disk Stamped 'Village of Wheeling - Survey Marker' at sanitary lift station at southeast corner of Dundee Road □ Milwaukee Ave.

Elevation □646.315 (NAVD 88)

See Sheet 3 for Site Benchmarks



LOCATION MAP
Not To Scale

LEGEND

Existing Symbol	Description	Proposed Symbol
	Storm Sewer Manhole	
	Catch Basin	
	Inlet	
	Sanitary Sewer Manhole	
	Clean Out	
	Storm Sewer	
	Sanitary Sewer	
	Water Main	
	Water Main Service	
	Fire Hydrant	
	Valve Vault	
	Valve Box	
	B-Box	
	Light Pole	
	Hand Hole	
	Fence	
	Sign	
	Gas Valve	
	Gas Line	
	Electric Line	
	Lamp Post	
	Curb □ Gutter	
	Retaining Wall	
C XXX.XX / G/P XXX.XX	Curb Elevation and Gutter/Pavement Elevation	
XXX.XX	Pavement Elevation	
XXX.XX	Sidewalk Elevation	
XXX.X +	Ground Elevation	
Gr XXX.XX / Rim XXX.XX	Open Lid Frame □ Grate / Closed Lid Frame □ Lid	
	Contour Line	
	Deciduous Tree	
	Coniferous Tree	
	Bush	

INDEX TO SHEETS

NO.	DESCRIPTION
C1.0	TITLE SHEET
C2.0	GENERAL NOTES AND SPECIFICATIONS
C3.0	LIFT STATION DETAIL
C4.0	JACKSON DRIVE PLAN & PROFILE
C5.0	STANDARD DETAILS

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

Note:
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

MICHAEL L. ANDERSON
062-053214
LICENSED PROFESSIONAL ENGINEER
OF
STATE OF ILLINOIS

EXPIRES 11-30-15

No.	Revision	Date

HAEGER ENGINEERING
consulting engineers • land surveyors
1304 N. Plum Grove Road, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184.003.152
www.haegerengineering.com

TITLE SHEET

VILLAGE OF WHEELING
JACKSON DRIVE LIFT STATION
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	P A C
Date:	7-9-2015
Project No.	13-147
Sheet	C1.0 / C5

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Plot Date: Jul 10, 2015 - 12:03pm Plotted By: mike-a
File Name: C:\Users\mike-a.HE\appdata\local\temp\AcPublish_6164\13147-TITLE-NOTES-DETAILS.dwg

VILLAGE OF WHEELING NOTES

GENERAL NOTES

1. 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, 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 Village standards and requirements shall govern.
2. 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 Village standards and requirements shall govern.
3. 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.
4. All elevations are based upon NAVD 88 Datum.
5. The contractor shall notify the Village of Wheeling Engineering (847) 229-4600 and Plumbing Inspector (847) 459-2620 two (2) business days prior to the start of construction. The Contractor shall also contact J.U.L.I.E. (800) 892-0123 at least 48 hours prior to starting work. All other agencies shall also be notified as required.
6. The contractor shall restore all disturbed off-site areas to at least a condition that existed prior to construction.
7. All existing field drainage tiles encountered or damaged during construction are to be restored to their original condition, properly rerouted, and/or connected to the storm sewer system.
8. The contractor and engineer shall maintain records for "as built" drawings which shall be submitted to the Village Engineer at the completion of this project.
9. The contractor shall provide video tape(s) or still pictures as required by the Village Engineer prior to beginning work.
10. One set of stamped approved plans shall be on site at all times during construction of the project.
11. It shall be the responsibility of the Contractor to call at least 48 hours in advance and set up the necessary and proper inspection(s) for all work to be performed.
12. All unpaved areas of right-of-way are to be sodded. Restore right-of-way with six (6) inches of topsoil and sod.
13. Storm and sanitary sewer lines shall be cleaned of all construction debris and silt prior to Village inspection.
14. The contractor shall maintain and keep at the job site, an up to date set of "Record Drawings" that shall show all changes from the original plans. 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 cleanouts must be shown with tied dimensions. The elevation of all rims and inverts shall be verified by the contractor and shown on the "Record Drawings". 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 three (3) sets of complete "Record Drawings," and, if required, one (1) set of reproducible mylars.
15. 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.
16. 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.
17. All obstructions that are not approved by the Village and which currently exist in the right-of-way shall be removed, which include all rocks and boulders.
18. OSHA rules, regulations, and requirements shall be strictly adhered to during the execution of all work to be performed under the approved drawings.
19. Contractor shall pay special attention to the existing street light electrical conduit. If electrical conduit is damaged, repairing only damaged portion of conduit is not allowed; the entire section of electrical conduit between the nearest poles shall be replaced.

GENERAL UNDERGROUND UTILITIES

1. Trench backfill shall be provided under and within two feet (2') of all existing and proposed pavement.
2. All manholes and similar structures must be a minimum of 48" diameter, and valve vaults must be a minimum of 60" diameter, unless approved otherwise.
3. For modification or repair of all sewers and addition of or repair of sewer clean outs: non-shear couplings shall be used in connection of sewer pipes with prior approval from Village Engineering Department.
4. A minimum ten feet (10') horizontal separation shall be maintained between the watermain and sewer or drain lines unless precluded by local conditions. When the watermain is located closer than ten feet (10') horizontally or the invert of the watermain is located closer than eighteen inches (18") vertically above the crown of any sewer or drain line, then: The sewer or drain line shall be constructed of pipe equivalent to watermain standards and shall be pressure tested to assure watertightness in accordance with the Illinois Environmental Protection Agency (I.E.P.A.) requirements.
5. When a watermain crossing over a sewer or drain line is closer than eighteen inches (18") vertically above the crown of that sewer or drain line, then that sewer or drain line shall be constructed according to the requirements listed in item 4) above.
6. If the watermain passes under a sewer or drain line, the following conditions shall be met: a vertical separation of eighteen inches (18") between the invert of the sewer or drain line and the crown of the watermain shall be maintained with support provided for the sewer or drain line(s) to prevent any moving or settling, rupture or breaking, and sewer or drain line shall be constructed as described in item 4) above.
7. The cost of all required testing of underground utilities shall be incidental to the construction cost of the same.
8. The contractor shall mark location of the ends, if necessary, of any sanitary, water, and storm services with buried 4" x 4" wood posts painted with a minimum of three (3) feet out of the ground by a painted red, blue, and green respectively, with appropriate signs attached stating "Caution: B-box - Do not remove until landscaping is complete."
9. When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole, the sewer shall be circular saw-cut by proper tools ("sewer-tap" machine or similar) with proper installation of hub-wye saddle or hubtee saddle.
10. Sewer connections to existing structure shall be machine cored.
11. A flexible rubber boot shall be used at all sanitary sewer manhole penetration connections.
12. Eccentric cone sections shall be used on all manholes, catch basins, vaults, etc. unless approved otherwise by the Village Engineer.
13. All sewer construction requires stone bedding 1/4" to 1" in size, (I.D.O.T. equivalent CA-11, CA-13) with a minimum thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches, nor greater than eight (8) inches.
14. All sewer construction shall conform to the approved permit plans unless revisions have been approved by the Village, as well as any and all other necessary agencies.
15. Structures shall have a maximum of twelve inches (12") of adjustment with any combination up to a maximum of three (3) rings.
16. Protect and/or cover all pipes and underground structures until final grading, paving, and landscaping are complete.
17. Trench backfill material for both paved areas and parkways shall be CA-6, Grade 8. For detail, see Trench Backfill Standard on Sheet 13. Density Test of compacted CA-6 will be performed by a consultant retained by the contractor. If the density requirement (95% modified proctor density) is not met, further trench backfilling will not be allowed until CA-6 is compacted to Village requirements. Contractor is responsible for providing modified proctor density data of CA-6 and the cost of this work shall be included in the cost of water main.
18. Throughout all phases of construction, including suspension of work, and until the final acceptance, the contractor shall keep the site clean and free from rubbish and debris. The contractor shall also abate dust nuisance by cleaning, sweeping and sprinkling with water or other means as necessary. Whenever requested by the Engineer, the contractor shall furnish and operate a self loading motor sweeper with spray nozzle at least once each working day for the purpose of keeping paved areas acceptably clean wherever construction, including restoration, is completed unless directed by the Engineer otherwise.
19. Curb and Gutter, Sidewalk, Driveway and Sodding Shall be restored within four weeks after all service lines are made to each street. If temperature is above 80 degrees farenheit, sodding should be delayed until temperature is under 80 degrees. Watering of new sod shall be performed per IDOT standard specifications for Road and Bridge Construction, article 252.08.
20. Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles on public streets is maintained at all times.

PAVING

1. Base course shall be aggregate base course, type B (crushed limestone, grade 8), conforming to the standard specifications (see plans for thickness).
2. Surface course and binder course shall be bituminous concrete, Class I hot mix (see plans for thickness).
3. Curb and gutter, barrier curb, and sidewalk shall be Portland Cement concrete with air entrainment of five (5) percent, plus or minus one (1) percent. A six (6) bag mix shall be used. Maximum allowable slump is three (3) inches. Curing compound shall be applied after finishing. Curb backfill shall be incidental to the construction of the curb. Locations of water and sewer service lines shall be clearly marked on all new curbs.
4. A 3/4 inch fiber expansion joint shall be installed when the curb abuts a sidewalk or existing curb.
5. Curb and gutter and barrier curb shall have sawed contraction joints at maximum intervals of twenty (20) feet and 3/4 inch fiber expansion joints at maximum intervals of sixty (60) feet.
6. Subgrade shall be finished to ± 0.1 feet of design subgrade elevations by the earthwork contractor. Fine grading for pavements and sidewalks shall be the responsibility of the paving contractor.
7. The base course shall be primed at the rate of 0.25 to 0.5 gallons per square yard with a liquid asphalt conforming to I.D.O.T. standards and shall be appropriate for prevailing weather conditions. Prime coat and cleaning of the existing surface shall be considered as incidental to the contract work.
8. Prior to placement of any pavement, including curbs, the subgrade shall be proof rolled with a fully loaded tandem axle dump truck (minimum 20 tons). Proof rolling shall be witnessed by the materials consultant and the Village Engineer. Proof rolling shall be required on the base material as well. The density of the subgrade base and base material, as well as the bituminous material, shall also be tested by the materials consultant. The test results shall be provided to the engineer for his use in determining the adequacy of the pavement design.
9. All structures such as manholes, valve boxes, etc. shall be adjusted to meet the new surface elevation. Furthermore, structures such as manholes, valve boxes, etc. that lie within Portland Cement Concrete slab areas (i.e. driveways, etc.) shall be boxed out by means of a cut out area with full depth joints.
10. All pavement, walk, and curb removal shall be accomplished by saw cutting prior to removal.
11. All pavement areas such as driveways shall have a two (2) inch diameter galvanized steel conduit buried beneath them at a depth of 24" (minimum) for future street light cable(s). The conduit shall extend a minimum of three (3) feet beyond the back of curb or edge of the pavement if no curb exists.
12. All drives in the right-of-way of public streets and in industrial and truck loading areas shall be a minimum of eight (8) inch thick portland cement concrete on a four (4) inch compacted granular base.
13. Saw cut existing curb at limit of the work and replace with depressed curb as required. Drill and dowel all new curb, including depressed curb, to existing as required.
14. All driveway material thicknesses shall meet the minimum pavement standard requirements of the Village of Wheeling.
15. Driveway apron removal and 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.
16. All dimensions for curbing to be back of curb, unless otherwise specified.
17. The use of cold-patch for temporary pavement patching shall be approved by the Village Engineer **prior** to placement.

STORM SEWER

1. All storm sewer pipes shall be reinforced concrete pipe conforming to ASTM C-76 Class IV with confined O-ring gasketed joints in compliance with ASTM C-361 or Tylox Super Seal gasket conforming to ASTM C-361.
2. Elevations of flared end sections shall be interpreted at the invert of the flared endsection.
3. All storm structures are to have open (grate) lids unless specified as having closed lids (C.L.).
4. Rim grades for storm sewer structures located within the curb and gutter are flow line elevations.
5. All sump pump and drain tile discharges shall be routed to the storm sewer system. Sump pump service connections shall be four (4) inch PVC SDR 26 conforming to ASTM D2751 or ASTM D3034 at a minimum slope of 2% and shall be air gapped. Minimum cover shall be two (2) feet, wherever possible.
6. All downspouts, footing drains, and outside drains shall discharge to the storm sewer or over ground as approved by the Village Engineer.
7. Minimum diameter of storm sewer shall be 12" unless approved otherwise.
8. No storm water shall be discharged to the sanitary sewer system.
9. Any storm sewer damaged during the work shall be repaired with full sized permanent or temporary storm sewer pipe. Use of temporary under-sized storm sewer pipe is strictly prohibited.

IEPA NOTES

Sewers crossing water mains shall be laid to meet the following specifications:

1. Horizontal Separation:
   a. Whenever possible, a water main must be laid at least ten feet horizontally from any existing or proposed drain or sewer line.
   b. Should local conditions exist which would prevent a lateral separation of ten feet, a water main may be laid closer than ten feet to a storm or sanitary sewer provided that the water main invert is at least eighteen inches above the crown of the sewer, and is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
   c. If it is impossible to obtain proper horizontal and vertical separation as described in 1 and 2 above, both the water main and sewer must be constructed of pipe material which would conform to water main standards and be pressure tested to assure water tightness before backfilling.
2. Vertical Separation:
   a. Whenever water mains cross house sewers, storm drains or sanitary sewers, the water main shall be laid at such an elevation that the invert of the water main is eighteen inches above the crown of the drain or sewer. This vertical separation must be maintained for that portion of the water main located within ten feet horizontally of any sewer or drain crossed. This must be measured as the normal distance from the water main to the drain or sewer.
   b. Where conditions exist that the minimum vertical separation set forth in 1 above cannot be maintained, or it is necessary for the water main to pass under a sewer or drain, one of the following two measures must be taken:
      i. The water main shall be installed within a PVC carrier pipe and the carrier pipe shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least ten (10) feet.
      ii. The involved sewer or drain shall be constructed of pipe material which would conform to water main standards until the normal distance from the water main to the sewer is at least ten (10) feet.
   c. In making such crossings, center a length of water main pipe over the sewer to be crossed so that the joints will be equidistant from the sewer and as remote there from as possible. Where a water main must cross under a sewer, a vertical separation of eighteen inches between the invert of the sewer and the crown of the water main shall be maintained, along with means to support the larger sized sewer lines to prevent their settling and breaking the water main.

   The horizontal and vertical separation between water service lines and all sanitary sewers, storm sewers, or any drain should be the same as for water mains, as detailed above, except that when minimum horizontal and vertical separation cannot be maintained, water pipe as described under Vertical Separation above, may be used for sewer service lines.

IEPA CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) NOTES

CCDD Compliant Material Disposal:

1. Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
2. The Contractor will be required to make all arrangements for coordination and submission of the testing reports and certification documents with their chosen CCDD disposal facility. Written confirmation of preliminary approval must be provided from the disposal facility and confirmed by the Village as acceptable.
3. All surplus, clean material generated from the Contractor's activities must be disposed of at an IEPA permitted CCDD facility. The Contractor is responsible for providing documentation to the Village for each load hauled off-site showing the quantity of material and the location the material was disposed of.
4. The removal and disposal of CCDD compliant trench spoils for the installation of the water main shall be considered incidental to the cost of the pipe.
5. No extra compensation will be allowed to the Contractor for any expenses incurred complying with the requirements including, but not limited to: delays, inconvenience, or interruptions in the work resulting from compliance with these requirements.

CCDD Non-Compliant Material Disposal:

1. Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
2. A quantity of 60 C□ has been established in the bid proposal to address areas of possible non-compliant material. If such materials are found during construction, the Contractor shall notify the Village immediately. Suspect materials are to be set aside on impermeable tarps/plastic, etc. and covered until they may be properly disposed. If after assessment the material is found to be non-compliant, it shall be loaded onto trucks for proper landfill disposal off-site. Disposal documentation will be provided by the Contractor to the Village prior to any applications for payment being submitted.
3. The Village will provide a third party testing company to sample and analyze discovered suspect non-compliant material. After receipt of the analysis report, the Owner will determine the probable limits of contamination and confirm with the Contractor in order to establish a material quantity. Work shall include all labor, equipment,materials, trucking, re-handling, etc. as required to stockpile and dispose of material, whether compliant or not. Only material determined to be non-compliant shall be paid for at the provided unit price. Re-handling and disposal of material determined to be compliant shall be incidental to the water main pipe installation.

Note: In case of a conflict, contradiction, or discrepancy between the Village of Wheeling Notes or Village of Wheeling details and the Supplemental Notes, the Village of Wheeling Notes/Details shall apply, unless otherwise approved by the Village of Wheeling Engineer.

SUPPLEMENTAL NOTES

GENERAL NOTES

1. Definition of Terms:
   a. "Owner" shall mean the person or entity with which Haeger Engineering, LLC has been contracted with to prepare the Plans and Specifications.
   b. "Engineer" shall mean Haeger Engineering, LLC.
   c. "Contractor" shall mean the persons or entities responsible for performing and constructing the work described in the Plans, Specifications and other Construction Documents including but not limited to furnishing all labor, materials, tools, equipments, and other incidentals necessary.
   d. "Plans and Specifications" shall mean the Engineering Drawings and any Specifications prepared by Haeger Engineering, LLC, the Engineer.
   e. "Jurisdictional Agency" shall mean any local, municipal, county, township, state or federal entity of government or other entity having jurisdiction of some aspect of the project from whom approval, permit and/or review and approval was required.
2. The Specifications governing this project are as follows:
   a. All applicable Village/City and other applicable Jurisdictional Agency Ordinances, Codes, Regulations, Requirements, Policies, Specifications, Standards, etc.
   b. Roadway and Earthwork construction shall conform to the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction", latest edition and any subsequent "Supplemental Specifications and Recurring Special Provisions" as well as any applicable IDOT Highway Standards. Hereafter these items shall be collectively be referred to as the IDOT Standard Specifications .
   c. Water Main, Storm Sewer and Sanitary Sewer construction shall conform to the "Standard Specifications for Water and Sewer Construction in Illinois", latest edition.
   d. Soil Erosion and Sedimentation Control shall conform to the Illinois Environmental Protection Agency (IEPA) "Illinois Urban Manual" (IUM), latest edition and "Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control", latest edition.
   e. Traffic Control shall conform to the "Manual of Uniform Traffic Control Devices" (MUTCD), latest edition, as well as the latest edition of the "Illinois Supplement to the MUTCD", and IDOT "Quality Standard for Work Zone Traffic Control Devices", latest edition.
   f. All handicap accessibility items shall conform to the Illinois Accessibility Code (IAC), latest edition.
   g. General Notes and Specifications contained herein or elsewhere as a separate document.

If a conflict, contradiction or discrepancy occurs between any of the above Specifications the more stringent requirement shall apply, unless directed otherwise by the applicable Jurisdictional Agency.

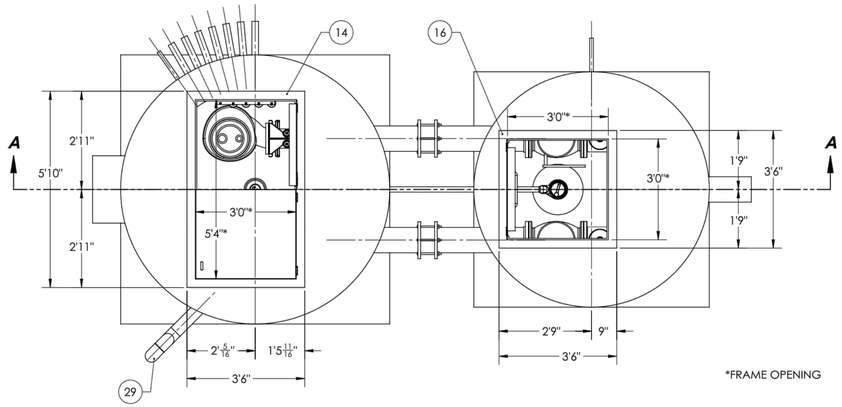
3. Contract Documents:
   a. The Engineer's Plans and Specifications shall be included as part of the Contract Documents.
   b. All Contractors shall carefully examine the Plans and Specifications, and other Contract Documents prepared for the work. They shall visit the site of the work and acquaint themselves with all local conditions, codes, and requirements affecting the contract. If awarded the contract, they shall not be allowed extra compensation by reason of any matter or thing concerning the obstacles which the Contractor could have discovered or reasonably anticipated or inferred prior to bidding or start of construction.
   c. Should it appear that the work covered by the Plans and Specifications or other Contract Documents is not sufficiently detailed or explained, a Request For Information (RFI) Form shall be submitted to the Engineer for further explanations and drawings as may be necessary to clarify the point in question prior to the contract award. It is the intention of the Contract Documents to provide a job complete in every respect. Incidental items or accessories necessary to complete the work may not be specifically noted or shown but that are necessary to complete the project shall be considered incidental to the Contract. The Contractor is responsible for this result and to turn over the project in complete operating condition, irrespective of whether the contract documents cover every individual item in minute detail.
   d. If any additional soils data is needed to confirm the Contractor's opinions of the subsurface conditions, this shall be done at the Contractor's expense. The Contractor shall obtain the Owner's written authorization to access the site to conduct a supplemental soils investigation. Any bracing, sheeting, dewatering or special construction methods deemed necessary by the Contractor in order to install the proposed improvements shall be considered incidental to the Contract and no additional compensation will be allowed.
4. Should any apparent errors, omissions, discrepancies or conflicts be discovered on the Plans, Specifications, □uantities or other Contract Documents by the Contractor, whether prior to or after the award of the contract, the Engineer's attention shall be called to the same before work is begun thereon, so that proper clarification can be provided or revision made. If any work is done without contacting the Engineer, it shall be considered that the Contractor has proceeded at their own risk and expense.
5. Whenever the performance of work is indicated on the Plans, and no specific item is included in the Contract for payment, the work shall be considered incidental to the Contract and no additional compensation will be allowed. The Contractor shall provide all necessary labor, material, equipment, etc. necessary to perform all the work required for construction of the proposed improvements.
6. The base plan/drawing for the Engineering Plans (existing conditions, site topography, utilities, rights-of-way, etc.) was obtained from the topographic survey prepared Haeger Engineering.
7. The Owner shall obtain the necessary approvals from the following Jurisdictional Agencies:
   a. Village of Wheeling
   b. Cook County Highway Department (CCHD)
8. The Contractor, unless otherwise agreed upon in writing with the Owner prior to the start of Construction, shall at his own expense, obtain all other approvals including permits, licenses, etc., as may be required for the execution of this work as well as provide all necessary notices, pay all fees required, post bonds, obtain all necessary insurance, and comply with all laws, ordinances, rules, and regulations relating to the work and to the preservation of public health and safety. The Contractor shall also provide all required insurance and/or bonds as may be required by the Jurisdictional Agencies. In addition, the Contractor shall verify all of the requirements of any permits as might be issued for this work by other Agencies, and shall pay for at their sole expense any surety, insurance or bonds as may be required by the Jurisdictional Agencies.
9. No work shall proceed until the appropriate permit or permits have been obtained for the item or items to be constructed. If any work does proceed without the appropriate permits or approvals, it is being done without the permission or consent of the Engineer. The Contractor and Party authorizing the work to proceed shall be assumed to be proceeding at their own risk and the Engineer shall not be held liable or responsible for any work being performed without a permit.
10. The Contractor shall indemnify and hold harmless the Owner, Engineer, Village/City, and other Jurisdictional Agencies as well as all of their respective officers, employees, agents, and Engineers from and against all losses, claims, demands, payments, suits, actions, recoveries, and judgment of every nature and description brought or recovered against them, by reason of any act, error or omission of said Contractor, their agents or employees in the execution of the work or in the guarding of it.
11. The Contractor is responsible for the general inspection and observation of the designated individual authorized by the Village/City or other applicable Jurisdictional Agencies. The Village/City, Jurisdictional Agencies, Owner, and Engineer shall be notified at least two working days prior to the commencement of work
12. In some instances, the existing utilities are shown on the Plans according to information obtained from the utility companies (plans) and/or the "Record Drawings" shown on file. The Owner and Engineer do not guarantee the accuracy or completeness of this information. The Contractor shall be aware of potential conflicts with existing or other proposed utilities as indicated on the Plans or that become apparent as the result of field locates By Others. The Contractor shall make their own investigations as necessary to determine the existence, nature, and location of all utility lines and related appurtenances within the limits or adjacent to the proposed improvements. The Contractor shall locate all utilities far enough in advance to avoid all conflicts between existing utilities and proposed conditions and notify the Engineer aware of any such conflicts. If the Contractor encounters a conflict between the proposed improvements and existing utility that was not located in advance by the Contractor, then the Contractor shall at no cost to Owner, relocate the proposed improvements and/or utility to avoid the conflict.
13. The Contractor will be required to cooperate with all utility companies involved in connection with the removal, temporary relocation, construction, reconstruction or abandonment by these companies of any and all services or facilities owned or operated by them within the limits or general vicinity of the proposed improvements. Further, at the direction of the Owner and Utility Companies the Contractor shall coordinate the location and install PVC sleeves as necessary under the proposed pavement, curbs, walks, etc. for utility companies to run their proposed utility lines.
14. Before doing any work which will damage, disturb or leave unsupported, or unprotected any utility lines or related appurtenances encountered, the Contractor shall notify the respective Owner thereof, who will make all arrangements for relocating, adjusting, bracing, or otherwise maintaining or abandoning service on lines that fall within the limits of the proposed construction without cost to the Contractor, including the removal of all cables, manhole covers and other related appurtenances which the Owner desires to salvage. After such arrangements have been made, the Contractor will proceed with the work as directed by the Engineer. All utility lines and related appurtenances which are abandoned shall be removed if necessary and legally disposed of legally off-site by the Contractor.
15. No extra compensation will be allowed by the Contractor for any expense incurred for complying with all of these aforementioned utility coordination and cooperation requirements, or because of delays, inconvenience or interruptions in their work resulting from the failure of any utility company to remove, relocate, construct, reconstruct or abandon their services. The responsibility for prompt and timely removal, relocation, reconstruction or abandonment of their facilities by all utility companies involved, and the coordination of their own work with that of these companies to the end that work on this improvement is not delayed because of the necessary changes in the existing utilities, public or private, shall rest upon the Contractor.
16. Prior to commencing work, the Contractor is to field check and verify all critical locations, elevations, materials, sizes, dimensions, and conditions affecting the work, and notify the Engineer immediately if there are any suspected discrepancies. No work shall be performed until the suspected discrepancy has been resolved. The Contractor shall also call to the attention of the Engineer any errors or discrepancies which may be suspected in the lines and grades which are established by the Surveyor, and shall not proceed with the work until any lines and grades which are found to be in error have been verified or corrected by the Engineer.
17. The Contractor shall maintain positive drainage at all times during construction. Construction shall not block off-site drainage and the flow from any drainage ways, field tiles, storm sewers or similar draining off-site properties. All on-site structures, including storm sewers, drainage ways or similar conveyance for damaged during construction shall be maintained, restored to their original pre-construction condition or better, properly re-routed, and/or connected to the proposed stormwater drainage system. If this can't be accomplished then the field tile should be repaired or re-routed with new pipe of similar diameter to the original line and put back in service. The Contractor shall notify the Engineer if any such field tiles are encountered. Whenever during any construction activities any loose material is deposited in the flow line of gutters, ditches, drainage structures, etc. such that the natural flow of water is obstructed, this material shall be removed by the responsible party.
18. Prior to commencement of construction, on sites that will ultimately result in the disturbance of one (1) acre or more, the Contractor shall file a Notice of Intent for obtaining a copy of the Notice of coverage letter and the IEPA National Pollutant Discharge Elimination System (NPDES) General Permit ILR10 from the Owner. The Owner together along with the Contractor and/or other entities if so designated by the Owner, shall be responsible for ensuring that the erosion and sedimentation barrips/plastic, etc. and covered until they may be properly disposed. If after assessment the material is found to be non-compliant, it shall be loaded onto trucks for proper landfill disposal off-site. Disposal documentation will be provided by the Contractor to the Village prior to any applications for payment being submitted.
19. No construction activities, disturbance or fill shall occur within the limits of natural resources such as wetlands, floodplains, creeks, streams, ponds, lakes, basins, reservoirs, etc. or their respective buffers unless specifically specified on the Plans and further that the work has been permitted. The Contactor shall take sufficient precautions to protect and preserve natural resources that are to remain, whether on-site or on adjacent property, to protect them from sediment, fuels, oils, bitumens, calcium chloride, or other harmful materials that may be a detriment. The Contractor shall conduct and schedule their Construction so as to avoid siltation, or other disturbance or impact to these natural resource areas. The Contractor shall not disturb or otherwise impact these designated natural resource areas, or areas that have been designated to be protected or as essential habitat for State or Federal listed endangered or threatened species, or Prairie or Savannah areas where the Owner has made commitments for protection of these areas. Also, if previously unidentified natural resource areas, prairies, savannahs, or areas or locations suspected of containing protected species are identified during construction, the Contractor shall not disturb them unless written permission to do so is granted by the Owner or applicable Jurisdictional Agency. If the Owner, Engineer, or applicable Jurisdictional Agency determines that additional measures are necessary to prevent or mitigate impacts to natural resource areas, prairies, savannahs, or other humans, protected species, or essential habitat the Contractor shall cooperate in accomplishing these measures.
20. The Contractor shall confine their activities to within the project boundaries, work areas, or easements specified. No work shall be performed on adjacent private property or outside the work areas without the written permission of each respective Owner. The Contractor shall be liable for damage caused to existing or newly installed improvements as well as any damage on adjacent property or areas outside designated work areas, provided damage as a result of Contractor action, or lack thereof.
21. The Contractor is responsible for returning all areas affected by equipment, materials and/or laborers to pre-construction condition or better. All existing utilities or improvements, including but not limited to pavements, curbs, drives, trees, and parkways damaged or removed during construction shall be promptly restored to their respective original pre-construction condition or better. The Contractor is responsible for protecting all newly constructed work from damage until the project has been completed and has been approved and accepted by the Owner.
22. Clean-up and final restoration shall be performed immediately upon completion of each phase of the work or when directed to do so by the Owner, so that these areas will be restored as nearly as possible to their original pre-construction condition or better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, landscaping, fences, mailboxes, culverts, drain tiles, sanitary sewers, water mains, etc. It shall also be the responsibility of the Contractor to remove from the site any and all materials and debris which results from their construction operations at no additional expense to the Owner.
23. All proposed grades shown on the Plans shall be considered to be finished grade surface elevations unless noted otherwise.
24. Construction staking/layout shall be provided by the Contractor and shall be included in the Contract Price unless otherwise agreed upon in writing with the Owner prior to the start of Construction.
25. All Construction means and methods, techniques, procedures, scheduling, sequencing, and job site safety is the sole responsibility of the Contractor.
26. The Contractor shall observe and comply with all the Occupational Safety and Health Administration (OSHA) regulations, rules and regulations, as well as any other applicable local and federal safety requirements.
27. All trenching, shoring, bracing and construction work performed shall be in accordance with the Occupational Safety and Health Administration (OSHA) standards.
28. The Contractor shall take whatever steps necessary to protect the public from open trenches, excavations, and other site obstructions or hazards. No trenches, excavations or holes in the pavement or parkway are to be left open over a holiday, weekend, or after 3 p.m. on the day preceding a holiday or weekend.
29. During construction the Contractor and their Sub-Contractors shall keep the premises clean by removing all rubbish, debris, waste material and other accumulations as necessary. The Contractor shall clean the premises to the satisfaction of the Village/City and Owner.
30. The Contractor shall have appropriate equipment and material including street sweepers and end loaders available on-site at all times when equipment or vehicles are using within the limits of the construction route or access. The Contractor shall immediately remove any sediment or debris including but not limited to dirt, mud, clay, sediment, concrete, gravel, sand, stones, plant material, refuse, garbage, oil, grease, etc. deposited on any roadway, street, walk, alley or other location caused by any equipment, vehicles or personnel associated with this project. This work shall be considered incidental to the Contract.
31. The Contractor shall at all times maintain proper dust control at the site and shall have a watering truck readily available during all working hours. The Contractor shall water the entire site whenever the site conditions become unhealthy due to blowing soil or dust. The site shall be watered as many times per day as necessary to maintain a healthy work site as determined by the Owner or Engineer. Water for non-emergency use shall not be obtained from any fire hydrant, unless the fire hydrant is metered with a proper backflow preventer in accordance with Village/City or Jurisdictional Agency requirements. The cost to furnish dust control shall be incidental to the cost of Construction.
32. Trees not marked for removal shall be protected as necessary by the Contractor. In the event that a tree is damaged by the Contractor during construction, the Contractor shall repair the damage to the trees in accordance with Village/City requirements. If the Village/City does not have specific tree replacement requirements, the damaged existing or newly planted tree shall be replaced in accordance with the procedures outlined in Section 201 of the IDOT Standard Specifications. The Contractor shall ensure that they are familiar with the applicable tree preservation requirements and shall be held responsible for the replacement of all damaged trees not designed for removal, and any penalties associated with the unapproved removal of trees.
33. Where overhanging branches, limbs, or roots interfere with the required construction activities, said branches, limbs, or roots shall be trimmed or pruned as necessary in accordance with Section 201 of the IDOT Standard Specifications. This work shall be performed under the supervision of an approved arborist or landscape architect.
34. The Contractor is responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices, in accordance with the Illinois Supplement to the MUTCD and Standards to inform and protect the public during all phases of construction. The Contractor shall provide adequate signage, barricades, devices, equipment, personnel, etc. necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. Roadways shall remain open to a degree satisfactory to the Owner or applicable Jurisdictional Agency which at their discretion may require the Contractor to furnish traffic control under these or other circumstances where in their opinion it is necessary for the protection of life and property. Emergency vehicle access along with access to fire hydrants shall be maintained at all times. Further, unless authorized by the Owner, all existing access points shall be maintained at all times by the Contractor.
35. Where noted in the Plans, the Contractor shall have Shop Drawings and any other required supporting documentation or calculations prepared and submitted for review and approval prior to any fabrication, placement, or construction. If structural elements such as retaining walls are required, the drawings and any required supporting design calculations must be prepared, and signed and sealed by an Illinois licensed Structural Engineer.
36. The Contractor is responsible for having a set of approved Plans and Specifications with the latest revision date on the job site at all times during the construction period.
37. The Contractor shall maintain a clean, legible, undamaged set of Field Marked Construction Plans. These Field Marked Construction Plans shall show the location of the actual installed location of all underground utilities including related appurtenances (sanitary, storm, water, service stubs, gas, telephone, electric, cable TV, etc.) giving particular attention to concealed elements that would be difficult to measure and record at a later date. Any approved modifications, deviations, or alterations from the approved Plans should also be noted and shown on these Field Marked Construction Plans. These Field Marked Construction Plans shall be provided to the Owner/Engineer at the completion of construction.
38. All work that is performed that is not in conformity with the Plans, Specifications or other Contract Documents or that is defective shall be removed and replaced, or otherwise corrected or remedied by and at the sole expense of the Contractor. Any unauthorized work or work performed beyond the limits or in excess of that shown on the Plans will not be measured or paid for.
39. All work performed under the Plans, Specifications or other Contract Documents shall be guaranteed against all defects in materials and workmanship of whatever nature by the Contractor and his surety for a minimum period of 12 months from the date of final acceptance of the work by the Village/City, other applicable Jurisdictional Agencies, and the Owner, unless otherwise agreed upon in writing with the Owner prior to the start of construction,.
40. Before acceptance by the Owner and prior to final payment all work shall be inspected and approved by the Owner or designated representative. Final payment will be made after the Contractor's work has been approved and accepted or as required by the Contract Documents.
41. If required, the Owner shall have As-built or Record Drawings prepared and submitted to the Village/City and all other applicable Jurisdictional Agencies for approval after the completion of construction. These drawings shall be prepared in accordance with the Village/City and other applicable Jurisdictional Agency requirements. The As-built or Record Drawings must be prepared, and signed and sealed by a registered professional Engineer in Illinois.

DEMOLITION AND CLEARING

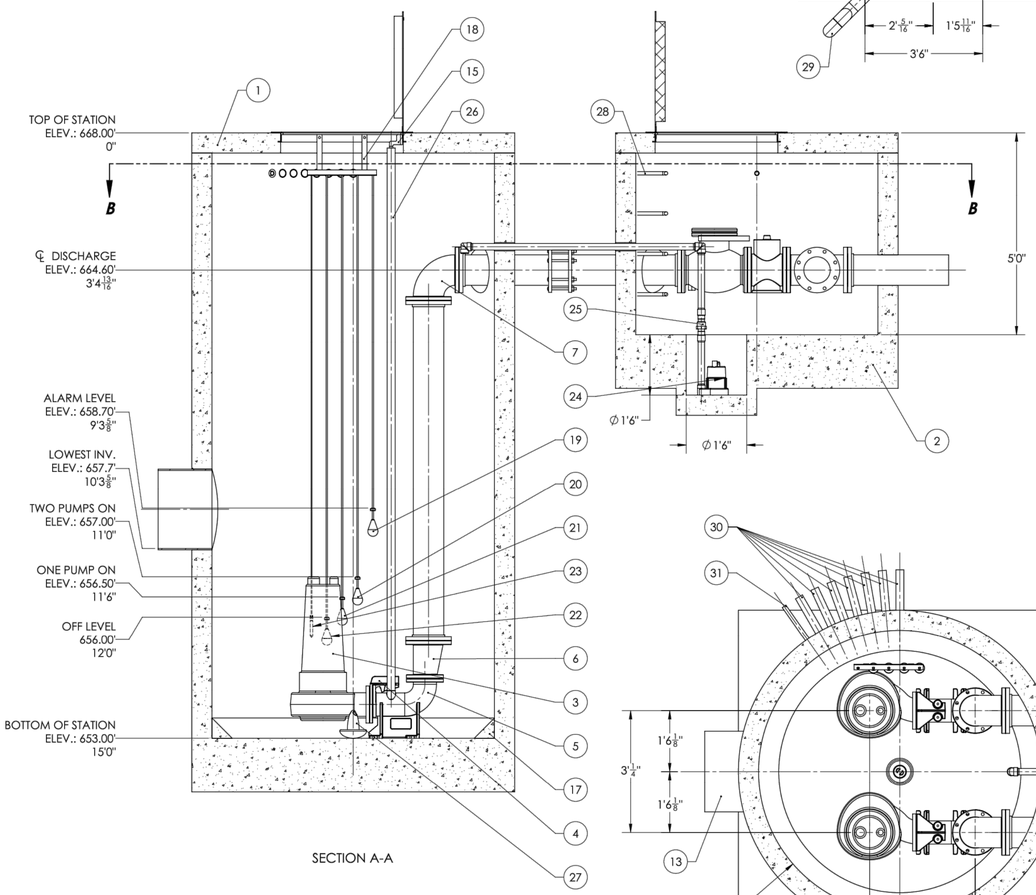
1. The Contractor shall perform all demolition, clearing, grubbing, and tree removal and protection work in accordance with all applicable Federal, State, County and Local requirements or as noted in the Plans.
2. Prior to the commencement of any demolition or clearing activities, the Owner or Contractor shall obtain all applicable permits to disconnect the existing utility services to each building proposed for demolition.
3. The Contractor shall coordinate all demolition activities with the Village/City, Owner and other Jurisdictional Agencies, so as to ensure the protection of all existing sewer, water main, and other utilities, and further to ensure that proper stormwater conveyance is attained until the proposed improvements can be installed and placed into operation.
4. Clearing shall consist of the removal and legal disposal of all obstructions such as trees, hedges, fences, walls, accumulations of rubbish of whatever nature, and all logs, shrubs, brush, grass, weeds, and other vegetation and stumps. These materials shall be removed whenever they occur within the street right-of-ways or within the limits of construction. All existing trees are to be saved or protected. from damage in accordance with the procedures outlined in Section 201 of the IDOT Standard Specifications.
5. All items shown to be removed on the Plans including items not specifically noted but necessary to be removed to construct the proposed improvements shall be demolished or removed as necessary and disposed of legally off-site or as approved by the Owner.
6. Existing utilities to be disconnected shall be done so at the main or as directed by the applicable Jurisdictional Agency or as noted on the Plans.
7. Utilities marked to be abandoned shall be abandoned as required by the applicable Jurisdictional Agency or as noted on the Plans.
8. All existing pavement or concrete to be removed shall be saw-cut along the limits of the proposed removal to provide a clean vertical edge. The cost of saw-cutting shall be considered incidental to the removal of each item.
9. All voids left by any item removed under any proposed building, pavement , walk or other structural areas or within zones of influence thereof shall be properly backfilled with suitable backfill material and/or compacted as necessary by the Contractor.
10. The Contractor shall implement a daily program for dust control as it relates to the demolition and clearing activities. This program is to be approved by the Village/City prior to the start of any demolition or clearing work.
11. All existing building services serving buildings that are to be removed shall be disconnected and removed as required by the applicable Jurisdictional Agency.
12. All existing wells shown on the Plans to be abandoned or that are discovered during the course of construction shall be sealed by a contractor and certified by a certified driller three (3) feet below the proposed finished grade and sealed by the Contractor in accordance with Section 920 of the "Illinois Water Well Construction Code", latest edition, or as required by the Health Department or by any other Local, County, State or Federal rules and regulations.
13. All existing septic tanks, grease traps or similar structures shown on the Plans to be abandoned or that are discovered during the course of construction shall have all liquids and solids removed and disposed of legally off-site by a licensed commercial waste hauler in accordance with the requirements of the Health Department or as required by any Local, County, State or Federal rules and regulations. The structures shall then be removed and disposed legally off-site or broken in-place, so as not to hold liquid, and back-filled with suitable materials by the Contractor or as required by the Health Department or by any other Local, County, State or Federal rules and regulations.
14. Any material containing asbestos or other hazardous materials found within existing structures or other items shown to be removed in order to construct the proposed improvements shall be removed from the site and legally disposed of off-site by the Contractor in accordance with appl

NOTE:

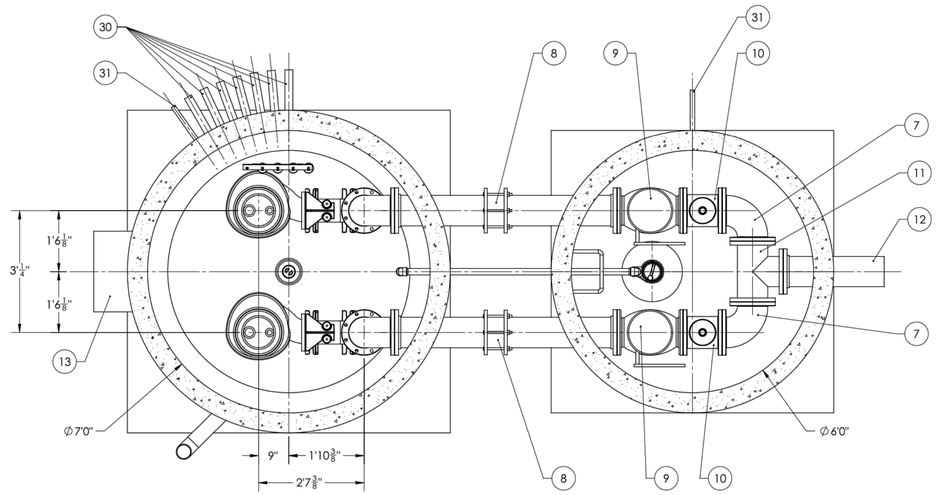
1. THIS DRAWING IS PRELIMINARY LAYOUT ONLY. NOT FOR CONSTRUCTION. CONSTRUCTION DRAWINGS WILL BE FORWARDED UPON RECEIPT OF APPROVED SUBMITTALS.
2. SOME ITEMS NOT SHOWN FOR CLARITY.
3. LIFT STATION TO BE INSTALLED BY AN EXPERIENCED AND QUALIFIED CONTRACTOR.
4. ALL CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR AND OR ENGINEER TO VERIFY ALL DIMENSIONS, ELEVATIONS, PIPING LAYOUT, AND ORIENTATION OF INLET (S), DISCHARGE AND CONDUIT (S).
6. ALL PIPING & VALVES ARE TO BE PROVIDED BY CONTRACTOR, UNLESS NOTED OTHERWISE.
7. CONDUITS ARE AS FOLLOWS: (1) 2" FOR LEVEL CONTROLS, (1) 2" FOR EACH PUMP POWER CORD, (1) 2" FOR EACH PUMP THERMAL CABLES, (1) 2" FOR EACH PUMP MOISTURE CABLES, (1) 1" FOR TRANSDUCER, (1) 1" FOR SUMP PUMP POWER.
8. CONTRACTOR TO ORDER CONTROL AND POWER CORDS OF SUFFICIENT LENGTH TO REACH CONTROL PANEL FROM POINT OF ORIGIN ON PUMPS WITHOUT SPLICING.
9. METROPOLITAN PUMP TO PROVIDE ONLY THE ITEMS SHOWN IN **BOLD**



*FRAME OPENING



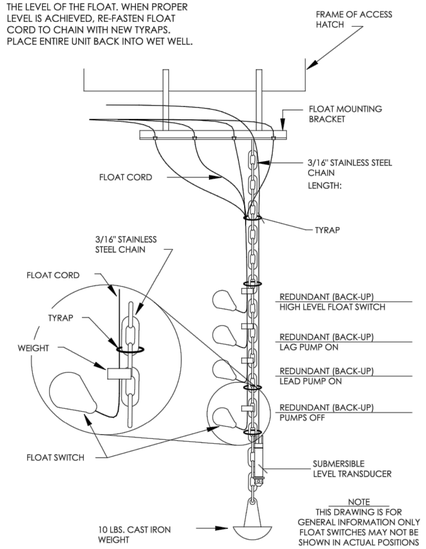
SECTION A-A



SECTION B-B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CONCRETE LIFT STATION	15' DEEP, 7' DIA.	1
2	CONCRETE VALVE VAULT	5' DEEP, 6' DIA.	1
3	**FA 15.52E**	**6" SUBMERSIBLE PUMP**	3
4	**6" SEALING FLANGE**		2
5	**6" MTM ELBOW**		2
6	8"x6"	D.I. ECCENTRIC REDUCER	2
7	8" S.R. ELBOW	D.I. FITTING	4
8	8" DRESSER COUPLING		2
9	8" HORIZONTAL SWING CHECK VALVE		2
10	8" PLUG VALVE		2
11	8" TEE	D.I. FITTING	1
12	8" STATION DISCHARGE		1
13	INLET PIPE	24" DIA.	1
14	**APD300-36x64**	**DUPLEX ALUMINUM ACCESS HATCH**	1
15	**UPPER GUIDE RAIL SUPPORT**	**FOR 2" RAIL SYSTEM**	2
16	**SIMPLEX ALUMINUM ACCESS HATCH**	**36"x36" OPENING**	1
17	GROUT FILLET	SLOPE 1:1, BY OTHERS	1
18	**FLOAT MOUNTING BRACKET**	**STAINLESS STEEL, TO BE SHIPPED LOOSE - CONTRACTOR TO INSTALL IN FIELD**	1
19	**FLOAT: ALARM LEVEL**	**METROPOLITAN SUBMERSIBLE LEVEL SWITCH**	1
20	**FLOAT: LAG PUMP ON**	**METROPOLITAN SUBMERSIBLE LEVEL SWITCH**	1
21	**FLOAT: LEAD PUMP ON**	**METROPOLITAN SUBMERSIBLE LEVEL SWITCH**	1
22	**FLOAT: OFF LEVEL**	**METROPOLITAN SUBMERSIBLE LEVEL SWITCH**	1
23	**SUBMERSIBLE LEVEL TRANSDUCER**		1
24	**SUMP PUMP**		1
25	1.50" CHECK VALVE		1
26	**2" GUIDERAIL**	**FOR 6" MTM, STAINLESS STEEL**	4
27	**ANCHOR**	**10lbs CAST IRON, WITH STAINLESS STEEL CHAIN FOR LEVEL CONTROL MOUNTING**	1
28	MANHOLE STEPS	BY OTHERS	4
29	4" VENT PIPING	BY OTHERS	1
30	2" CONDUIT	BY OTHERS, SEE NOTE 7	7
31	1" CONDUIT	BY OTHERS, SEE NOTE 7	2

WHEN CHANGING FLOAT LEVELS, PULL CHAIN, ANCHOR, AND FLOATS OUT OF WET WELL. CUT NECESSARY TYRAPS AND READJUST THE LEVEL OF THE FLOAT. WHEN PROPER LEVEL IS ACHIEVED, RE-FASTEN FLOAT CORD TO CHAIN WITH NEW TYRAPS. PLACE ENTIRE UNIT BACK INTO WET WELL.



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DATE	BY	REVISION	DATE	BY	REVISION

SCALE: 1:20
DRN. BY: D.P.
DATE: 6/18/2015
APP. BY:

METROPOLITAN INDUSTRIES, INC.
37 FORESTWOOD DR. ROMEOVILLE, ILLINOIS 60446
(815)886-9200 FAX (815)886-4573
PUMPS - CONTROLS - SYSTEMS

TITLE: *DUPLEX METRORAIL COMPONENT LIFT STATION*

PROJECT: *STORM WATER LIFT STATION JACKSON DRIVE LIFT STATION WHEELING, IL*

SHEET 1 OF 1
59787.94
DRWG INDEX / JOB NO.
15SW105C206-15

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No. | Revision | Date

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consulting engineers • land surveyors
1304 N. Plum Grove Road, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608
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www.haegerengineering.com

LIFT STATION DETAIL

VILLAGE OF WHEELING
JACKSON DRIVE LIFT STATION
WHEELING, ILLINOIS

Project Manager: M L A
Engineer: P A C
Date: 7-9-2015
Project No. 13-147
Sheet **C3.0** / C5

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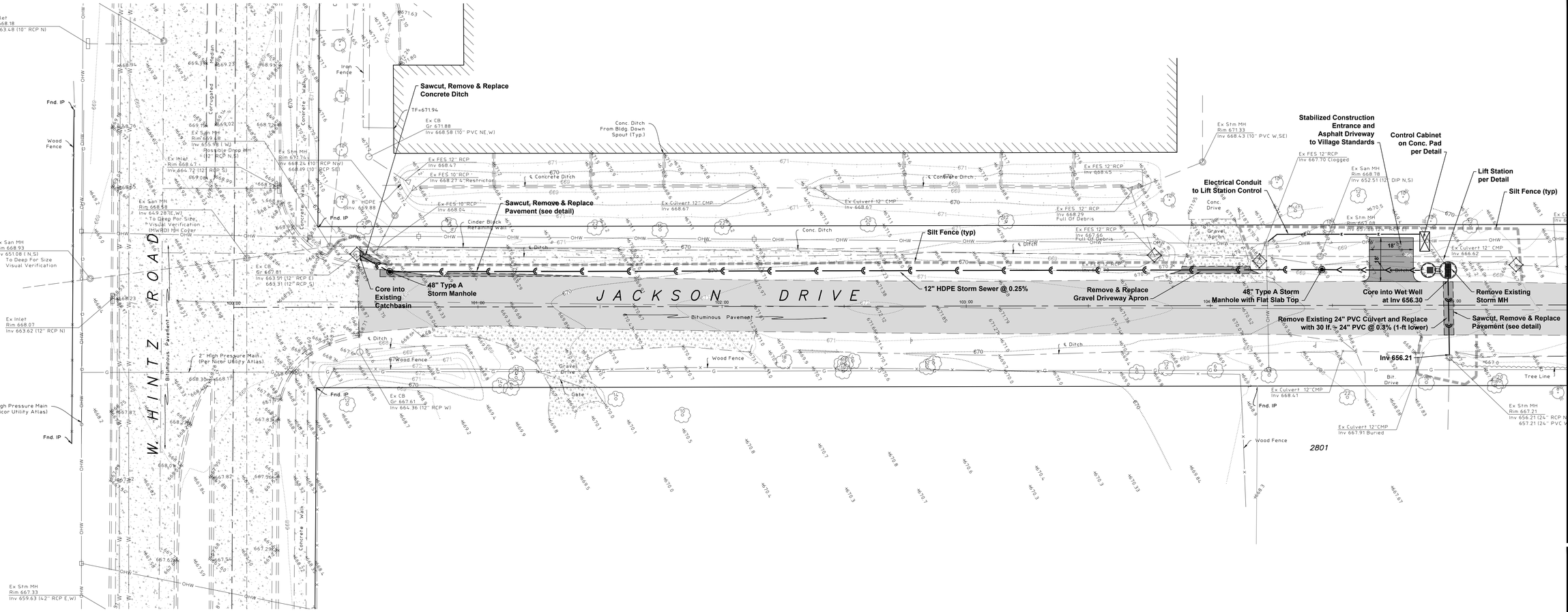
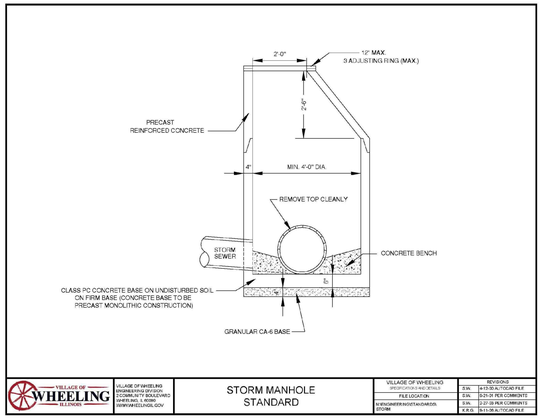
Plot Date: Jul 10, 2015 - 12:03pm Plotted By: mike-a
File Name: C:\Users\mike-a.HE\appdata\local\temp\AcPublish_6164\13147-TITLE-NOTES-DETAILS.dwg


Ex Inlet
Rim 668.18
Inv 663.48 (10" RCP N)
Fnd. IP
Wood Fence
Ex San MH
Rim 668.58
Inv 649.28 (E,W)
To Deep For Size,
Visual Verification
(MW/BD) MH Collar
Ex San MH
Rim 668.93
Inv 651.08 (N,S)
To Deep For Size
Visual Verification
Ex Inlet
Rim 668.07
Inv 663.62 (12" RCP N)
9" High Pressure Main
(Per Nicor Utility Atlas)
Ex Strm MH
Rim 667.33
Inv 659.63 (42" RCP E,W)
W. HINTZ ROAD
Bituminous Pavement
2" High Pressure Main
(Per Nicor Utility Atlas)
Iron Fence
Sawcut, Remove & Replace
Concrete Ditch
TF=671.94
Ex CB
Gr 671.88
Inv 668.58 (10" PVC NE,W)
Ex Strm MH
Rim 669.48
Inv 655.98 (W)
Possible Drop MH
(12" RCP N,S)
Ex Inlet
Rim 668.47
Inv 664.72 (12" RCP S)
Ex Strm MH
Rim 693.74
Inv 668.24 (10" RCP NW)
668.49 (10" RCP SE)
Ex FES 12" RCP
Inv 668.47
Ex FES 10" RCP
Inv 668.27 (-Restrictor
8" HDPE
Inv 669.88
Ex FES 10" RCP
Inv 668.04
Sawcut, Remove & Replace
Pavement (see detail)
Cinder Block
Retaining Wall
Ex CB
Gr 667.81
Inv 663.91 (12" RCP E)
Inv 663.31 (12" RCP S)
Core into
Existing
Catchbasin
48" Type A
Storm Manhole
Ex CB
Gr 667.61
Inv 664.36 (12" RCP W)
Conc. Ditch
From Bldg. Down
Spout (Typ.)
Ex Culvert 12" CMP
Inv 668.67
Ex FES 12" RCP
Inv 668.29
Full Of Debris
Ex FES 12" RCP
Inv 667.66
Full Of Debris
Silt Fence (typ)
12" HDPE Storm Sewer @ 0.25%
Conc. Ditch
Gravel
Apron
Remove & Replace
Gravel Driveway Apron
Ex Strm MH
Rim 671.33
Inv 668.43 (10" PVC W,SE)
Ex FES 12"RCP
Inv 667.70 Clogged
Ex San MH
Rim 668.78
Inv 652.51 (12" DIP N,S)
Stabilized Construction
Entrance and
Asphalt Driveway
to Village Standards
Control Cabinet
on Conc. Pad
per Detail
Electrical Conduit
to Lift Station Control
Lift Station
per Detail
Silt Fence (typ)
Ex San MH
Rim 667.88
Inv 656.78 (E,W)
Ex Culvert 12" CMP
Inv 666.62
18" Bit.
Conc. Drive
48" Type A Storm
Manhole with Flat Slab Top
Core into Wet Well
at Inv 656.30
Remove Existing
Storm MH
Sawcut, Remove & Replace
Pavement (see detail)
Remove Existing 24" PVC Culvert and Replace
with 30 lf. ~ 24" PVC @ 0.3% (1-ft lower)
Inv 656.21
Bit.
Drive
Tree Line
Ex Culvert 12"CMP
Inv 668.41
Ex Culvert 12"CMP
Inv 667.91 Buried
Ex Strm MH
Rim 667.21
Inv 656.21 (24" RCP N)
657.21 (24" PVC W)
Wood Fence
2801
JACKSON DRIVE
Bituminous Pavement
Ditch
Gate
Gravel
Drive
Concrete Walk
Corrugated Metal
Concrete Walk
Concrete Walk
Concrete Walk



STORM MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS
FILE LOCATION:	D.W. 4-13-00 ALT/DCAD FILE
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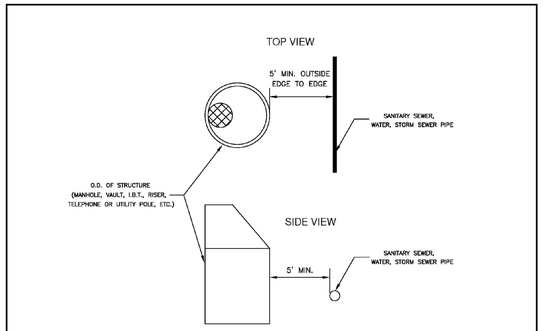
	D.W. 2-27-08 PER COMMENTS
	K.R.S. 9-11-08 ALT/DCAD FILE



UTILITY CLEARANCE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS
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FILE LOCATION:	K.R.S. 9-11-08 ALT/DCAD FILE
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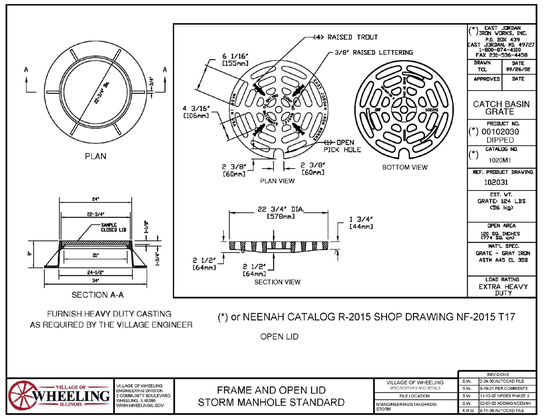
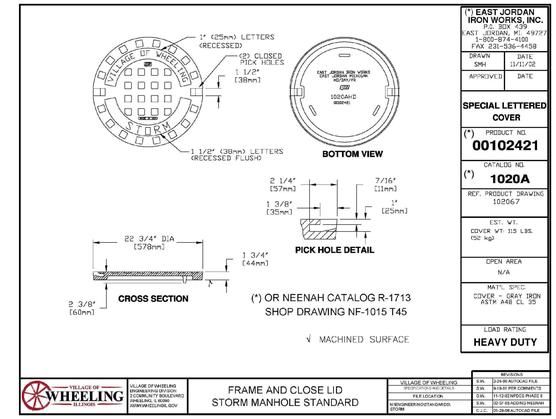


(*) EAST JORDAN IRON WORKS, INC.
P.O. BOX 439 EAST JORDAN, MI. 49727 1-800-874-4100 FAX 231-536-4459
DRAWN: TCL — DATE: 09/26/08
APPROVED: — DATE:
CATCH BASIN GRATE
PRODUCT NO. (*) 001020000 DIPPED
CATALOG NO. (*) 1020M1
REF. PRODUCT DRAWING 102031
EST. WT. GRATE: 126+ LBS (56 kg)
OPEN AREA 185 SQ. INCHES (974 SQ. CM.)
MATL SPEC: GRATE – GRAY IRON ASTM A48 CL 30B
LOAD RATING EXTRA HEAVY DUTY

FRAME AND OPEN LID STORM MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS
	D.W. 12-29-00 AUTOCAD FILE
FILE LOCATION:	D.W. 9-19-01 PER COMMENTS
N:\ENGINEERING\STANDARDS\STORM	D.W. 11-12-02 SPOKE IN HOLE 2
	D.W. 02-07-03 ADDING NOZZAS
	K.R.S. 9-11-08 ALT/DCAD FILE



(*) EAST JORDAN IRON WORKS, INC.
P.O. BOX 439 EAST JORDAN, MI. 49727 1-800-874-4100 FAX 231-536-4459
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
MATL SPEC: COVER – GRAY IRON ASTM A48 CL 35
LOAD RATING HEAVY DUTY

FRAME AND CLOSE LID STORM MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS
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FILE LOCATION:	D.W. 9-19-01 PER COMMENTS
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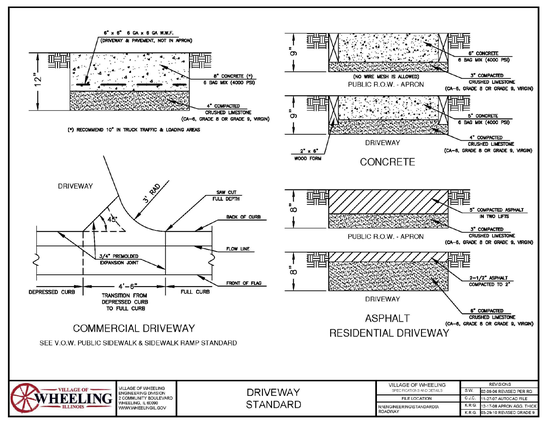
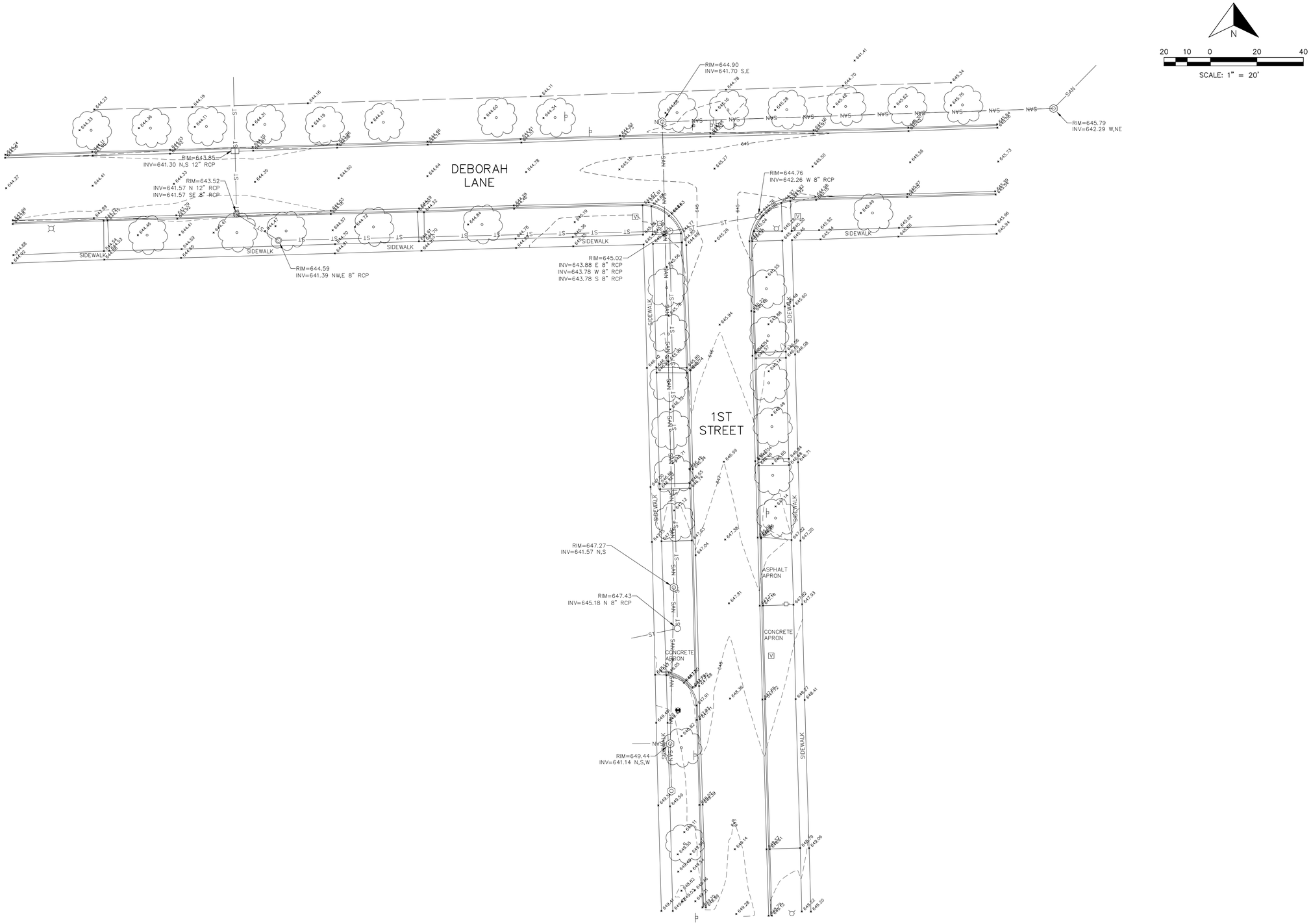
	D.W. 02-07-03 ADDING NOZZAS
	K.R.S. 09-29-08 ALT/DCAD FILE


6" x 8" x 6 GA x 8 GA W.M.F.
(DRIVEWAY & PAVEMENT, NOT IN APRON)
12"
8" CONCRETE (*)
6 SAG MIX (4000 PSI)
4" COMPACTED
CRUSHED LIMESTONE
(CA-6, GRADE B OR GRADE B, VIRGIN)
(*) RECOMMEND 10" IN TRUCK TRAFFIC & LOADING AREAS
8" CONCRETE
6 SAG MIX (4000 PSI)
3" COMPACTED
CRUSHED LIMESTONE
(CA-6, GRADE B OR GRADE B, VIRGIN)
PUBLIC R.O.W. - APRON
TWO WIRE MESH IS ALLOWED
2" x 6"
WOOD FORM
CONCRETE
DRIVEWAY
3'-0" MIN.
45°
SAW CUT
FULL DEPTH
BACK OF CURB
FLOW LINE
3/4" PREMOLDED
EXPANSION JOINT
FRONT OF FLAG
4'-0"
DEPRESSED CURB
TRANSITION FROM
DEPRESSED CURB
TO FULL CURB
FULL CURB
COMMERCIAL DRIVEWAY
SEE V.O.W. PUBLIC SIDEWALK & SIDEWALK RAMP STANDARD
3" COMPACTED ASPHALT
IN TWO LIFTS
3"
COMPACTED
CRUSHED LIMESTONE
(CA-6, GRADE B OR GRADE B, VIRGIN)
PUBLIC R.O.W. - APRON
DRIVEWAY
3"
3"
3"



REVISIONS

DATE	NO.	DESCRIPTION

VILLAGE OF WHEELING ILLINOIS

2 COMMUNITY BOULEVARD
WHEELING, IL 60090
PHONE: (847) 459-2600
WWW.WHEELINGIL.GOV

WHEELING, IL 60090

1ST STREET AND DEBORAH LANE

EXISTING CONDITIONS

Date: 01/14/25

1

Sheet 1 of 1

Tuesday, January 14, 2025 2:10:55 PM
T:\ENGINEERING\INTERN FILES\2024\1ST AND DEBORAH\1ST AND DEBORAH SURVEY.DWG

BEGIN PROJECT
WOLF ROAD
STA 118+00.00

EX ROW

PR ℄ WOLF ROAD

EX ROW

117

118

119

120+00

121

MATCH LINE STA. 122+00 - SEE SHEET NO. 125

EX ROW

℄ HARMONY DRIVE

HARMONY DR

WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"

EXISTING ℄ PROFILE

24" SS

24" SS

24" SS

21" SS

21" SS

21" SS

642.37 EXISTING ℄ ELEVATION

642.18	642.06	642.29	642.37	642.37	642.30	642.09	642.22	642.37	642.62

645 640 635 630 625 620

117+00 117+50 118+00 118+50 119+00 119+50 120+00 120+50 121+00 121+50 122+00

BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	
	DRAWN - CJC	REVISED -	
	CHECKED - JFM	REVISED -	
	DATE - 1-10-20	FILE - D160T05-SHT_Drain1.dgn	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES
WOLF ROAD

SCALE: H: 1"=20' V: 1"=5'

STA. 117+00 TO STA. 122+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2692	3941-R	COOK	331	124
		CONTRACT NO. 60T05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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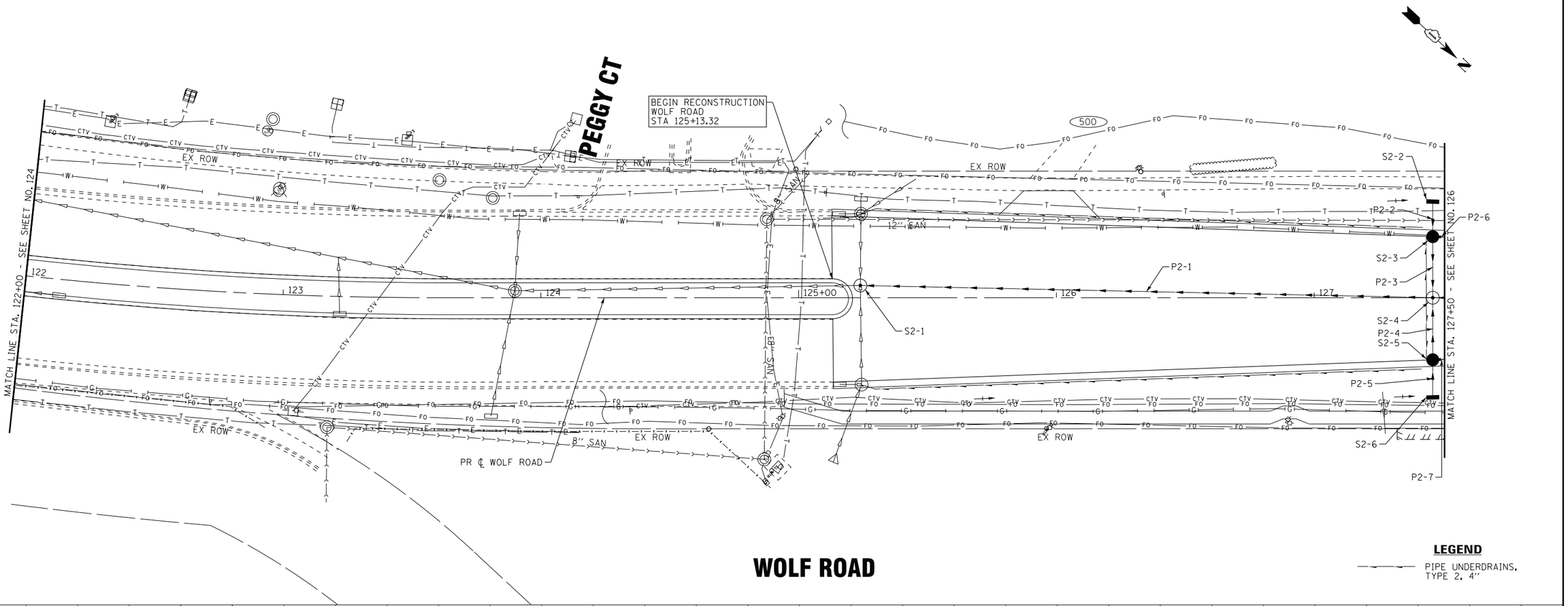
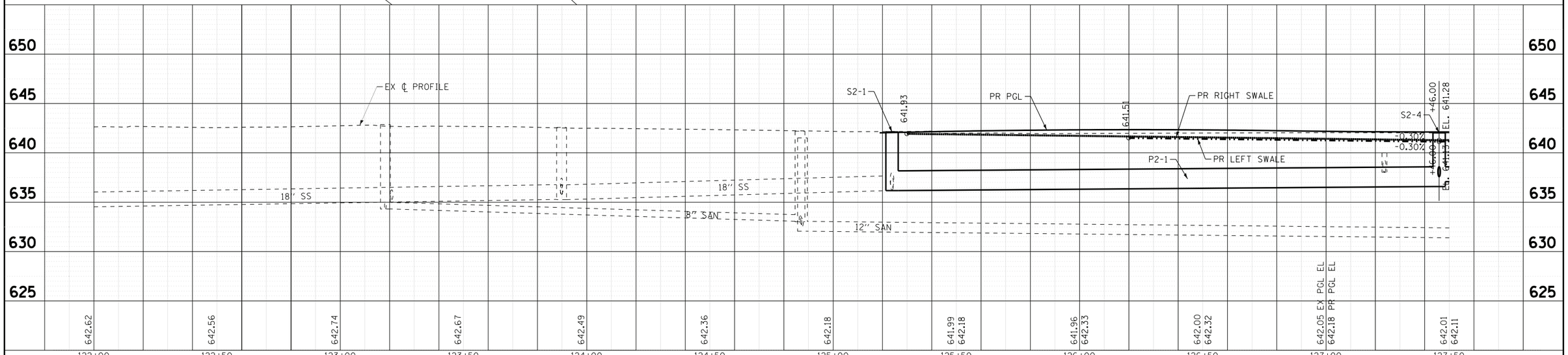


WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"



BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CJC	REVISED -			2692	3941-R	COOK	331	125
	CHECKED - JFM	REVISED -					CONTRACT NO. 60T05		
	DATE - 1-10-20	FILE - D160T05-SHT_Drain2.dgn		SCALE: H: 1"=20' V: 1"=5' STA. 122+00 TO STA. 127+50	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM - ...\Drdrvvpdf-BW_Default.pdf
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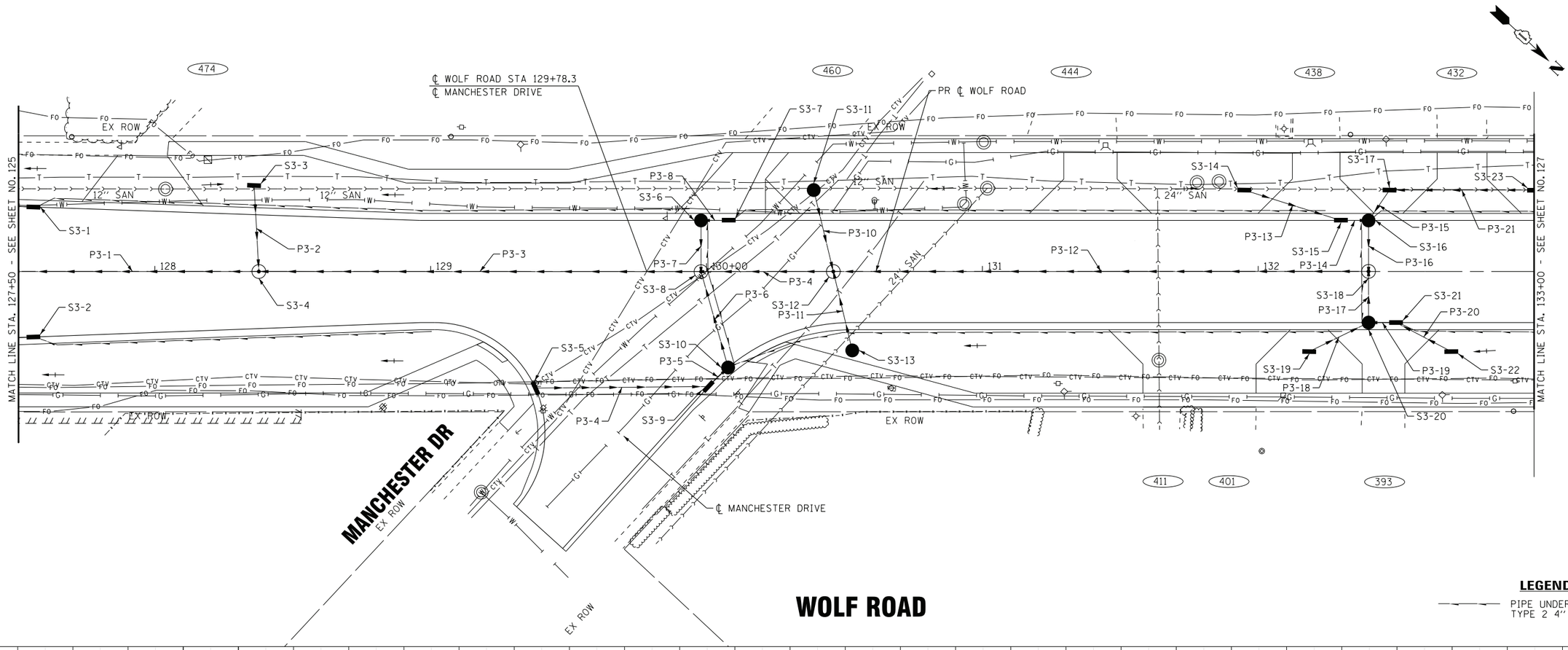
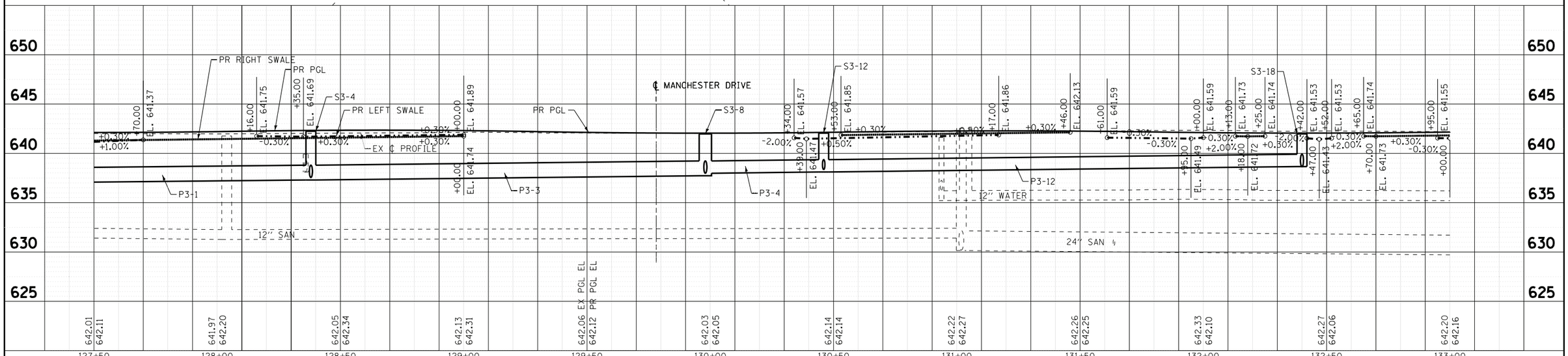


WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2 4"



BAXTER & WOODMAN	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CJC	REVISED -			2692	3941-R	COOK	331	126
	CHECKED - JFM	REVISED -					CONTRACT NO. 60T05		
	DATE - 1-10-20	FILE - D160T05-SHT_Drain3.dgn		SCALE: H: 1"=20' V: 1"=5' STA. 127+50 TO STA. 133+00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM - LICENSE NO. - 184-001121 - EXPIRES 4/30/2021
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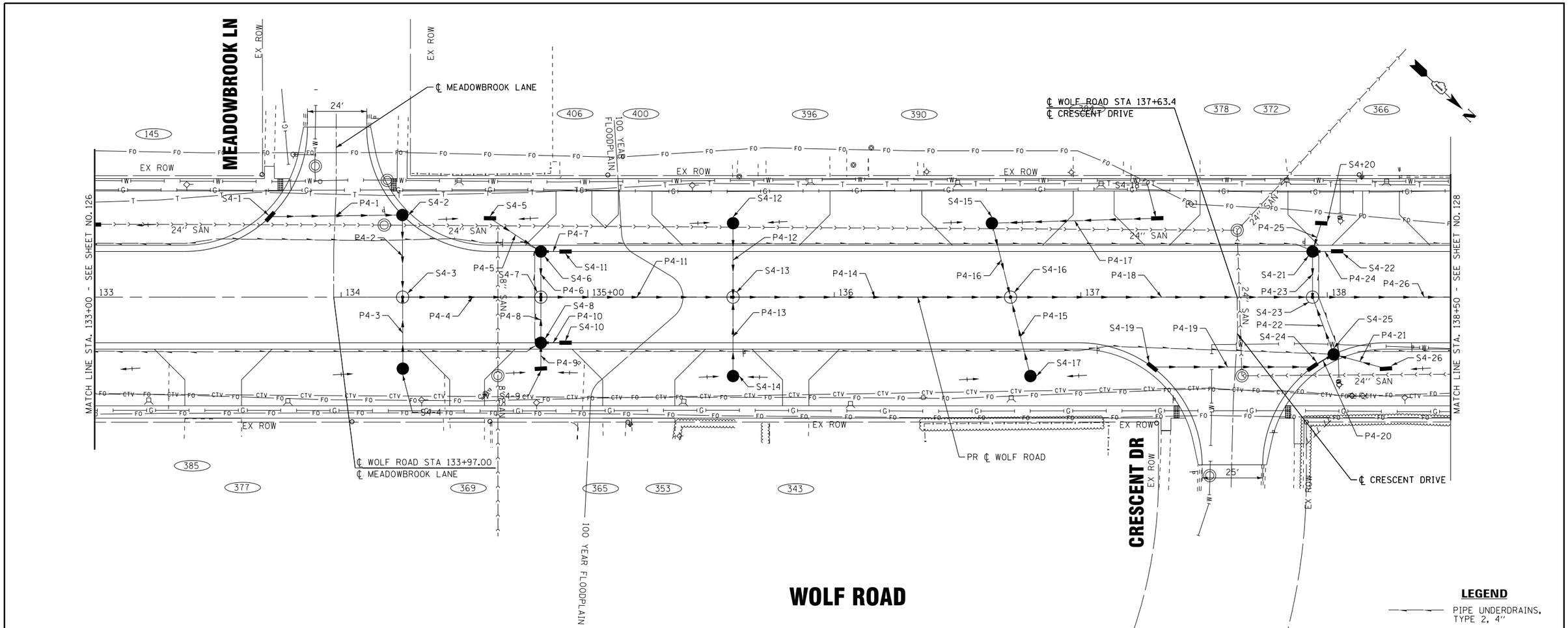

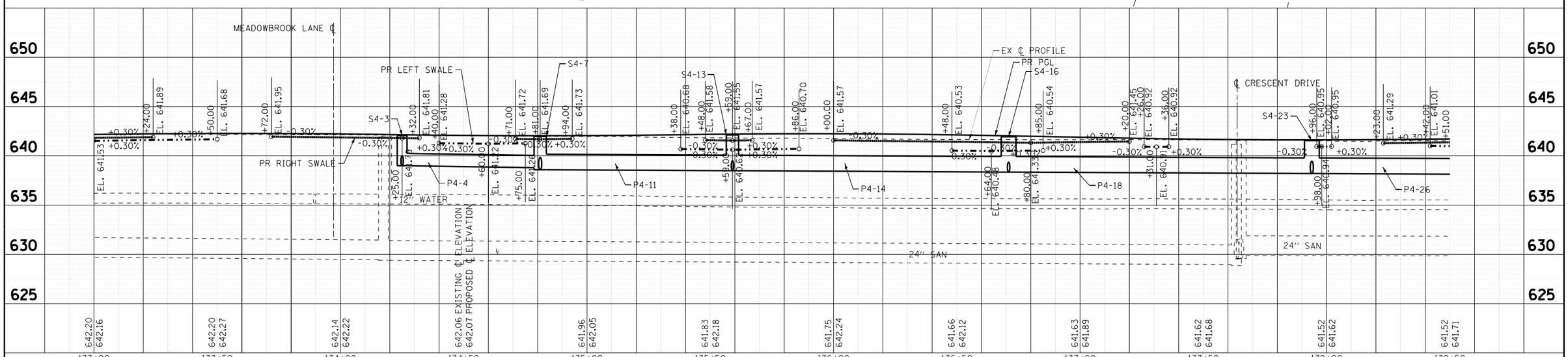

BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE. 2692	SECTION 3941-R	COUNTY COOK	TOTAL SHEETS 331	SHEET NO. 127
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	CHECKED - JFM	REVISED -							
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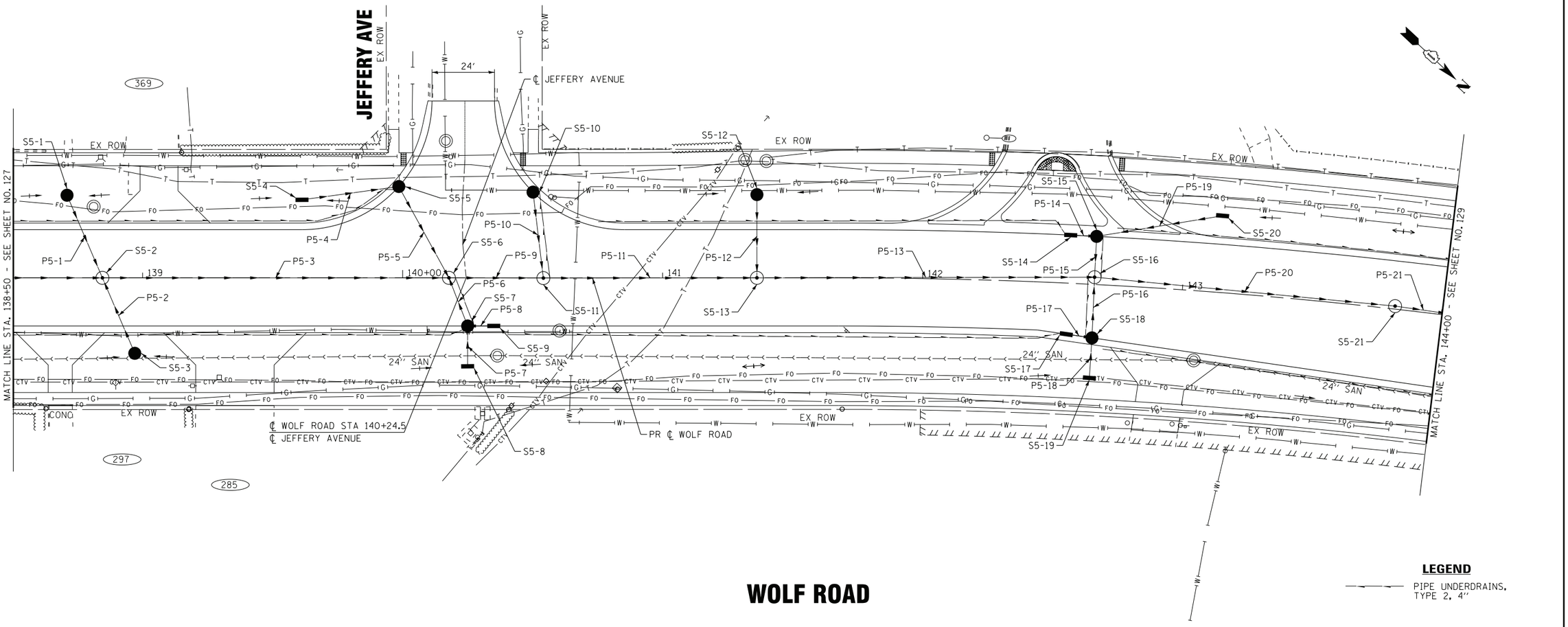
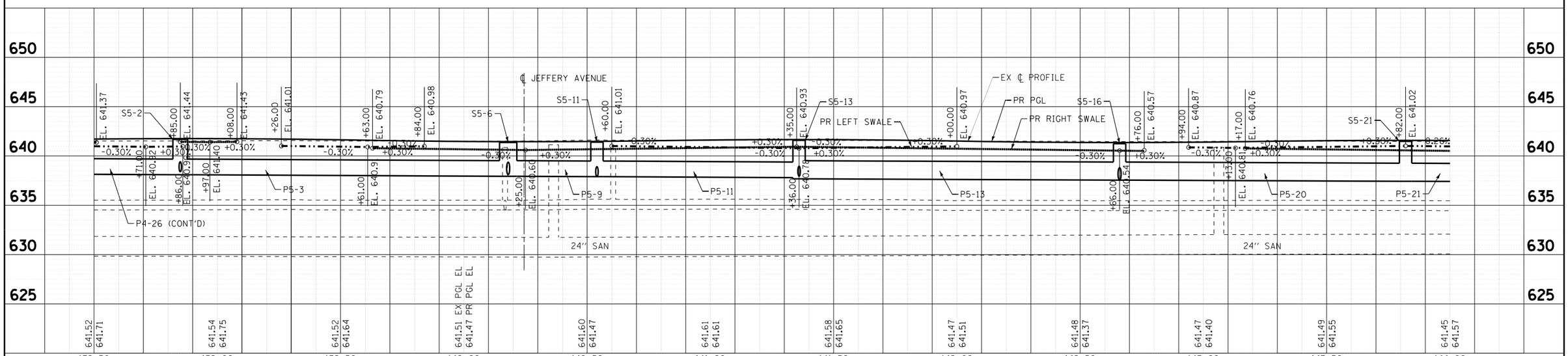


WOLF ROAD



LEGEND

PIPE UNDERDRAINS, TYPE 2, 4''

BAXTER & WOODMAN	DESIGNED - AMW	REVISED -	
	DRAWN - CJC	REVISED -	
	CHECKED - JFM	REVISED -	
	DATE - 1-10-20	FILE - D160T05-SHT_Drain5.dgn	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES
WOLF ROAD

SCALE: H: 1"=20' V: 1"=5' | STA. 138+50 TO STA. 144+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2692	3941-R	COOK	331	128
		CONTRACT NO. 60T05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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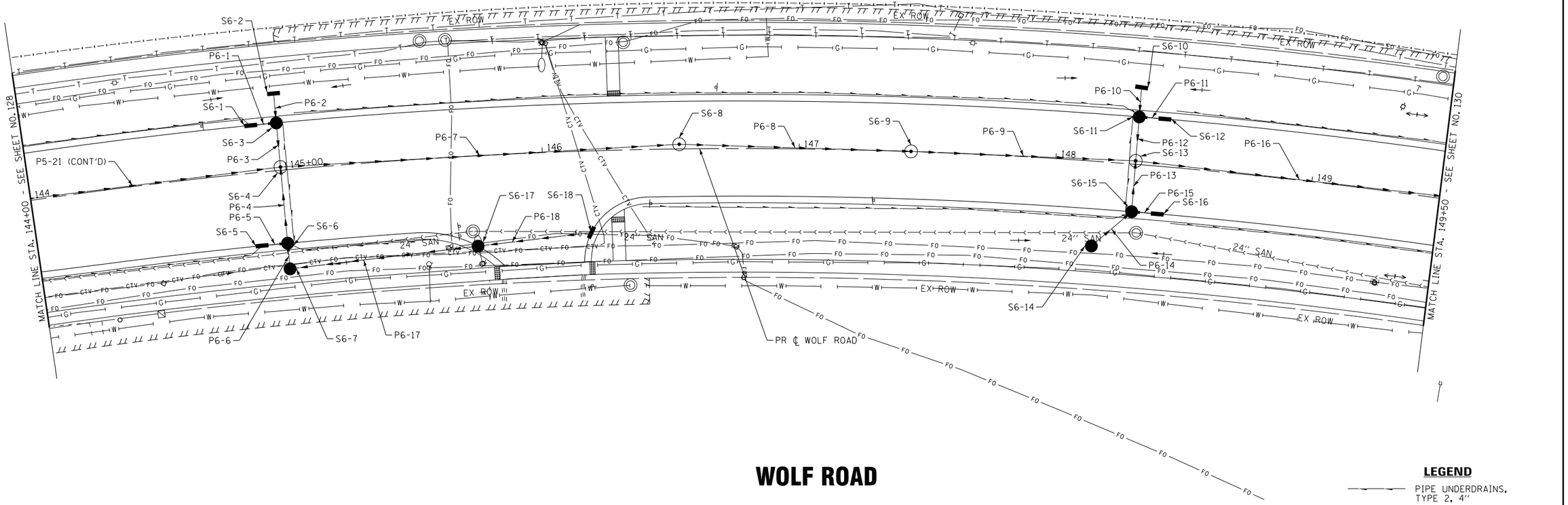
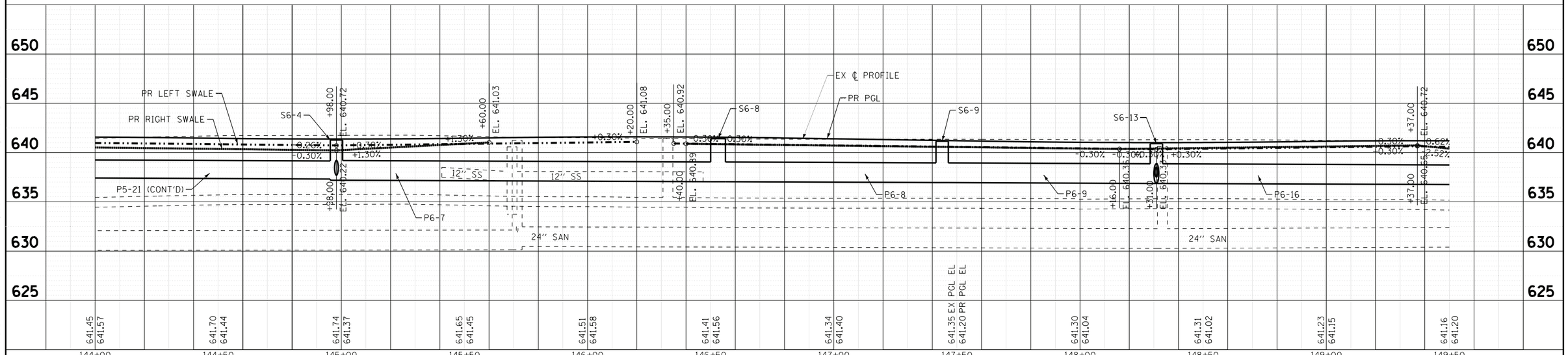


WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"



BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CJC	REVISED -			2692	3941-R	COOK	331	129
	CHECKED - JFM	REVISED -					CONTRACT NO. 60T05		
	DATE - 1-10-20	FILE - D160T05-SHT_Drain6.dgn		SCALE: H: 1"=20' V: 1"=5' STA. 144+00 TO STA. 149+50	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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℄ WOLF ROAD STA 150+52.3
℄ HIGHLAND AVENUE STA 1+00

PR ℄ HIGHLAND AVENUE

MATCH LINE STA. 149+50 - SEE SHEET NO. 129

MATCH LINE STA. 155+00 - SEE SHEET NO. 131

EX ROW

PR ℄ WOLF ROAD

636.15
37.0 LT

636.18
34.9 LT

636.01
36.5 LT

S7-1 S7-2 S7-3 S7-4 S7-5 S7-6 S7-7 S7-8 S7-9 S7-10 S7-11 S7-12 S7-13 S7-14-JC S7-15 S7-16 S7-17 S7-18 S7-19 S7-20 S7-21 S7-22 S7-23 S7-24 S7-25

P7-1 P7-2 P7-3 P7-4 P7-5 P7-6 P7-7 P7-8 P7-9 P7-10 P7-11 P7-12 P7-13 P7-14 P7-15 P7-16 P7-17 P7-18 P7-19 P7-20 P7-21 P7-22 P7-23 P7-24 P7-25

150+00 151 152 153 154

24" SAN

8" WATER

FOR CONTINUATION - SEE SHEET NO. 141

HIGHLAND AVE

WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"

℄ HIGHLAND AVENUE

EX ℄ PROFILE

PR LEFT SWALE

PR RIGHT SWALE

PR PGL

PR PGL EL
641.16 641.20
641.04 641.05
640.95 640.82
640.85 640.76
640.85 640.86
640.84 640.98
640.64 640.94
640.52 640.78
640.90 640.78
641.27 640.98
641.60 641.33
641.87 641.70

149+50 150+00 150+50 151+00 151+50 152+00 152+50 153+00 153+50 154+00 154+50 155+00

BAXTER & WOODMAN	DESIGNED - AMW	REVISED -	
	DRAWN - CJC	REVISED -	
	CHECKED - JFM	REVISED -	
	DATE - 1-10-20	FILE - D160T05-SHT_Drain7.dgn	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES
WOLF ROAD

SCALE: H: 1"=20' V: 1"=5' STA. 149+50 TO STA. 155+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2692	3941-R	COOK	331	130
		CONTRACT NO. 60T05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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LICENSE NO. - 184-000121 - EXPIRES 4/30/2021
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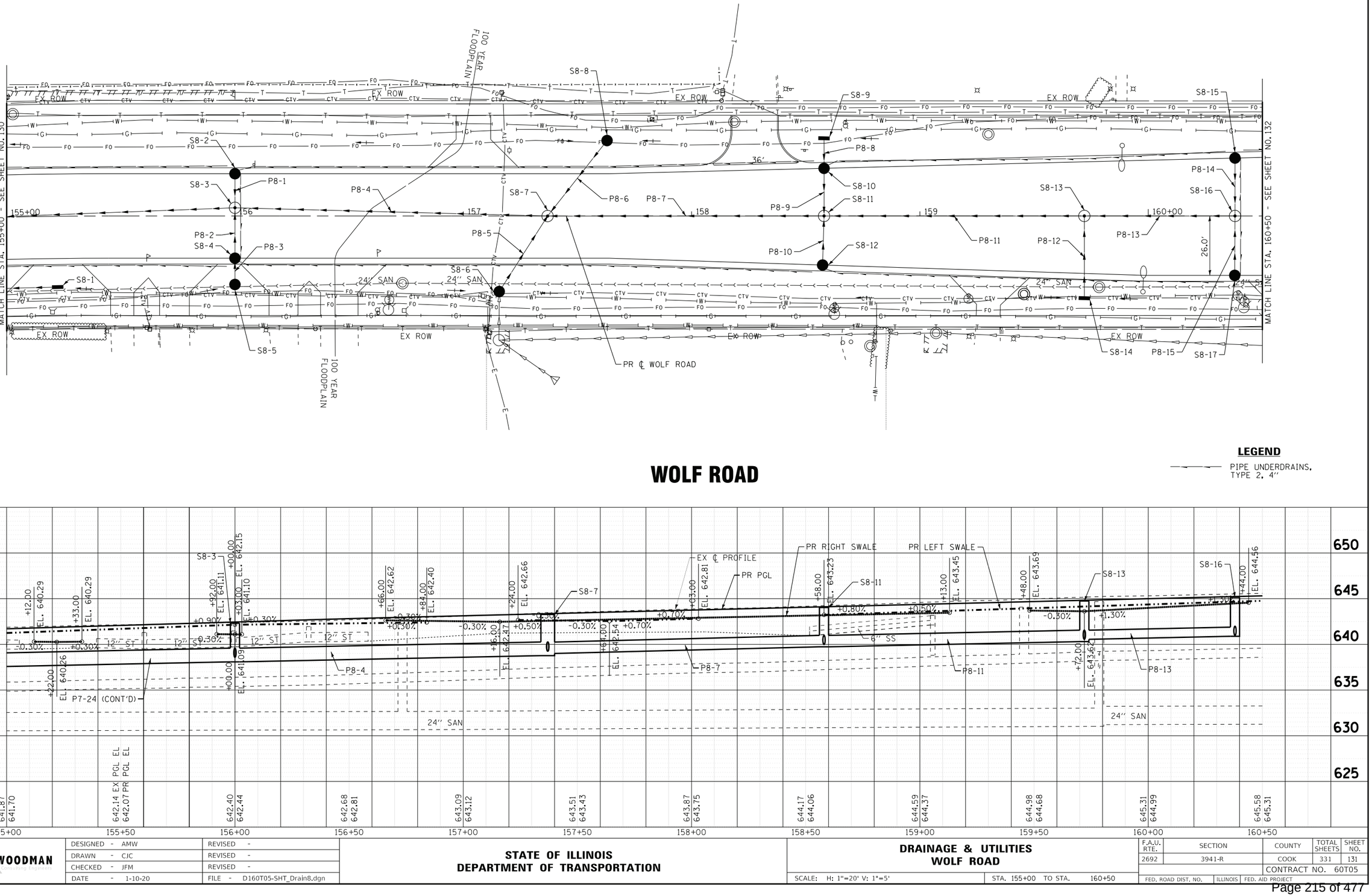

WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"

BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	CHECKED - JFM	REVISED -					CONTRACT NO. 60T05		
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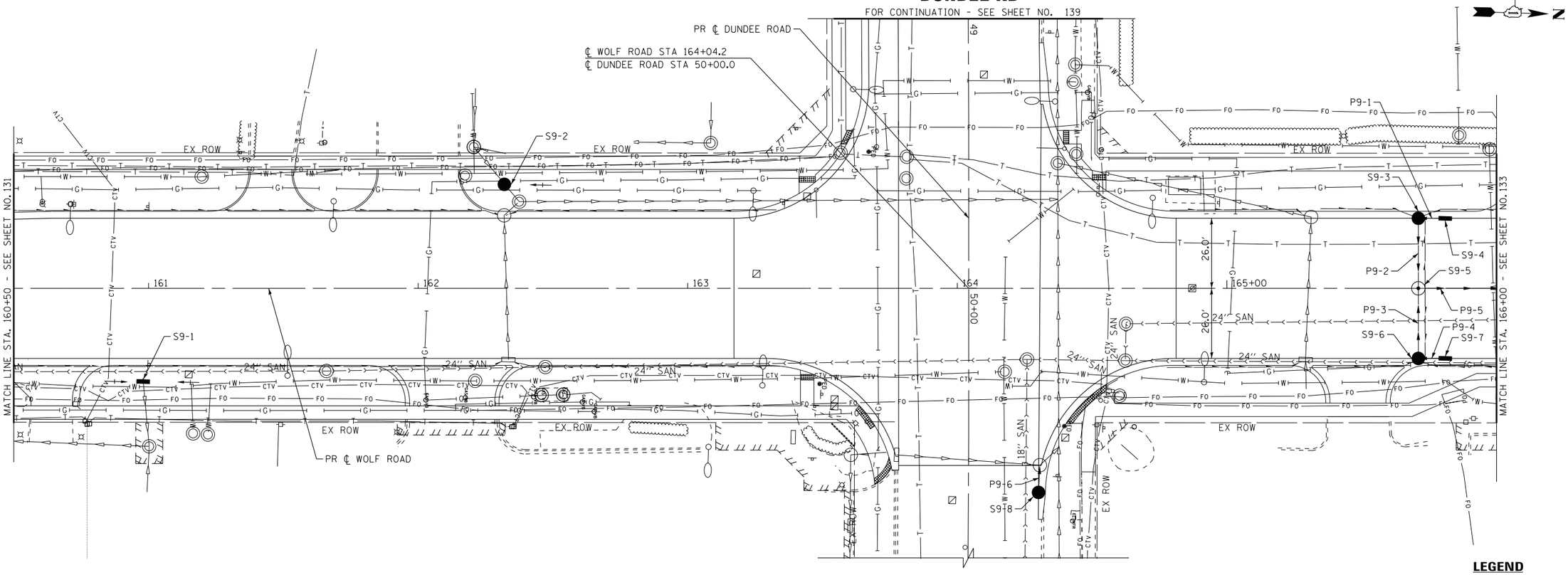
1/8/2020

DUNDEE RD

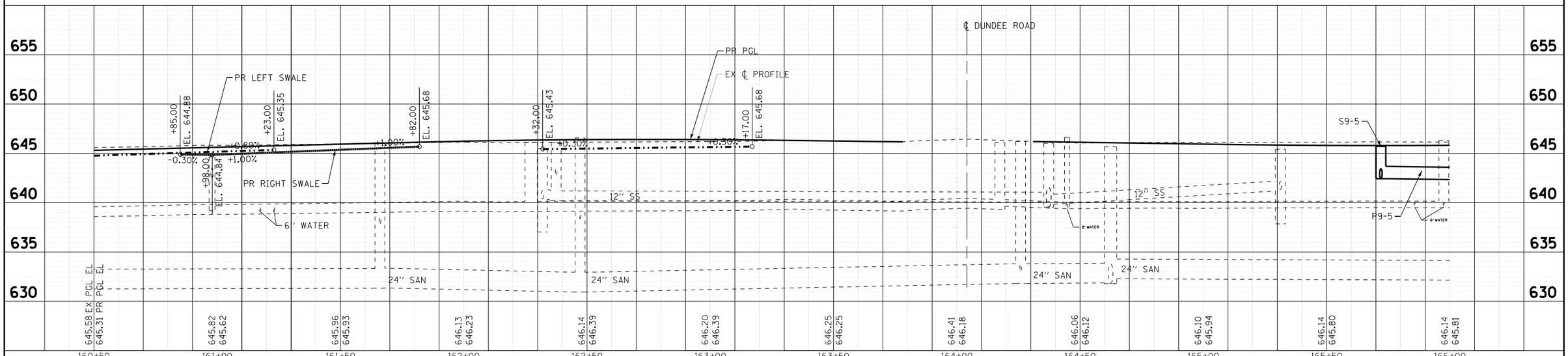
FOR CONTINUATION - SEE SHEET NO. 139



LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"

WOLF ROAD



BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CJC	REVISED -			2692	3941-R	COOK	331	132
	CHECKED - JFM	REVISED -					CONTRACT NO. 60T05		
	DATE - 1-10-20	FILE - D160T05-SHT_Drain9.dgn		SCALE: H: 1"=20' V: 1"=5' STA. 160+50 TO STA. 166+00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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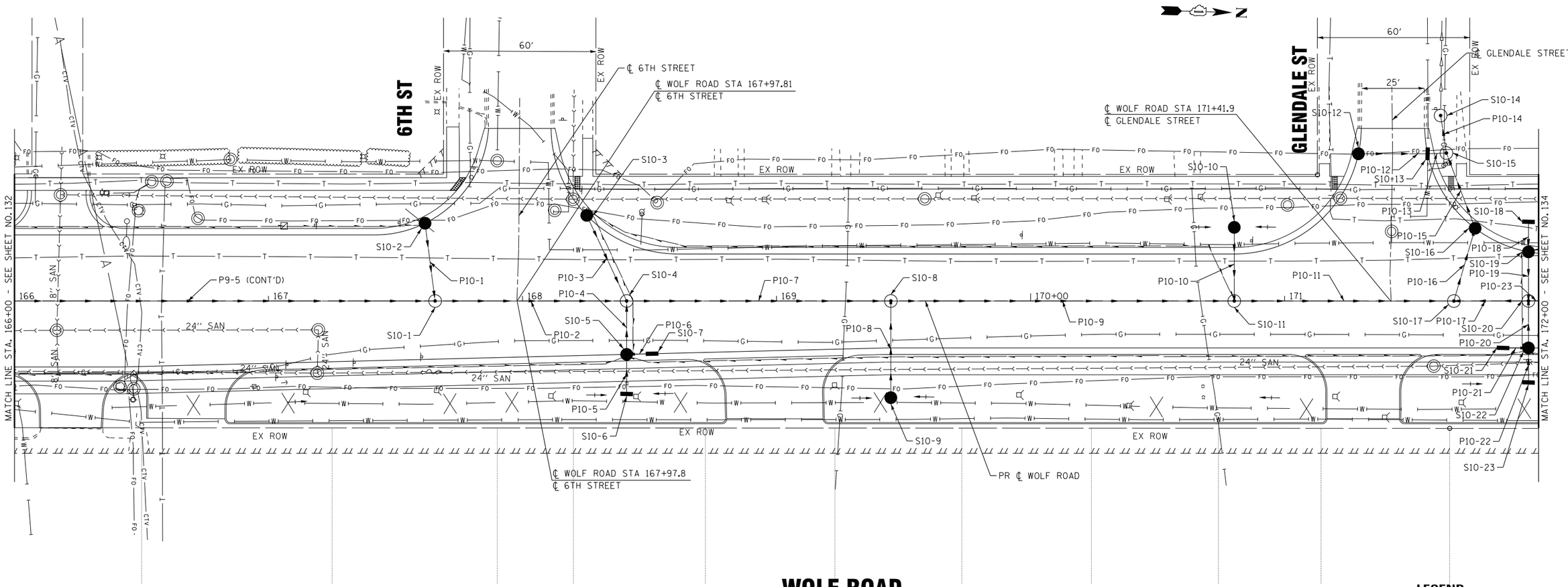

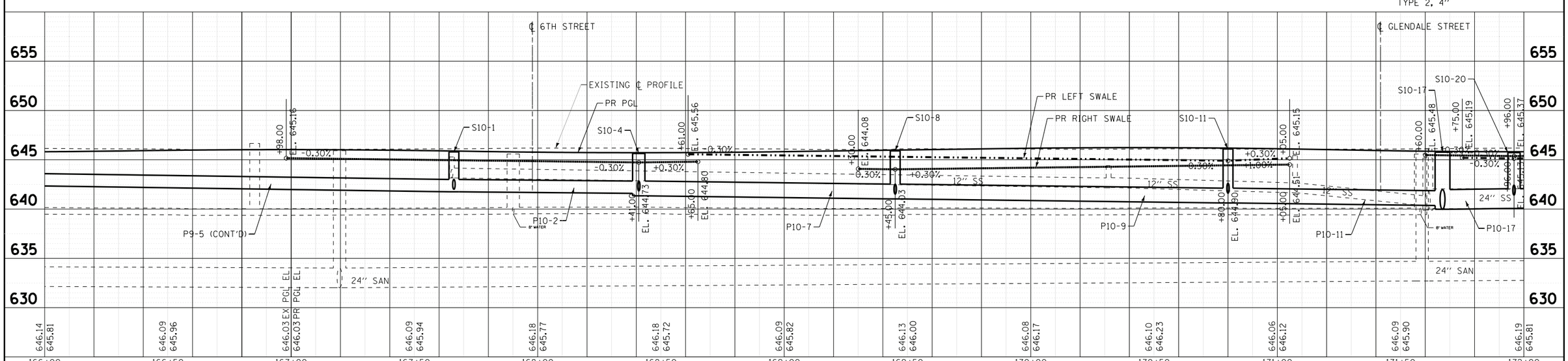

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"

BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE. 2692	SECTION 3941-R	COUNTY COOK	TOTAL SHEETS 331	SHEET NO. 133
	DRAWN - CJC	REVISED -					CONTRACT NO. 60T05		
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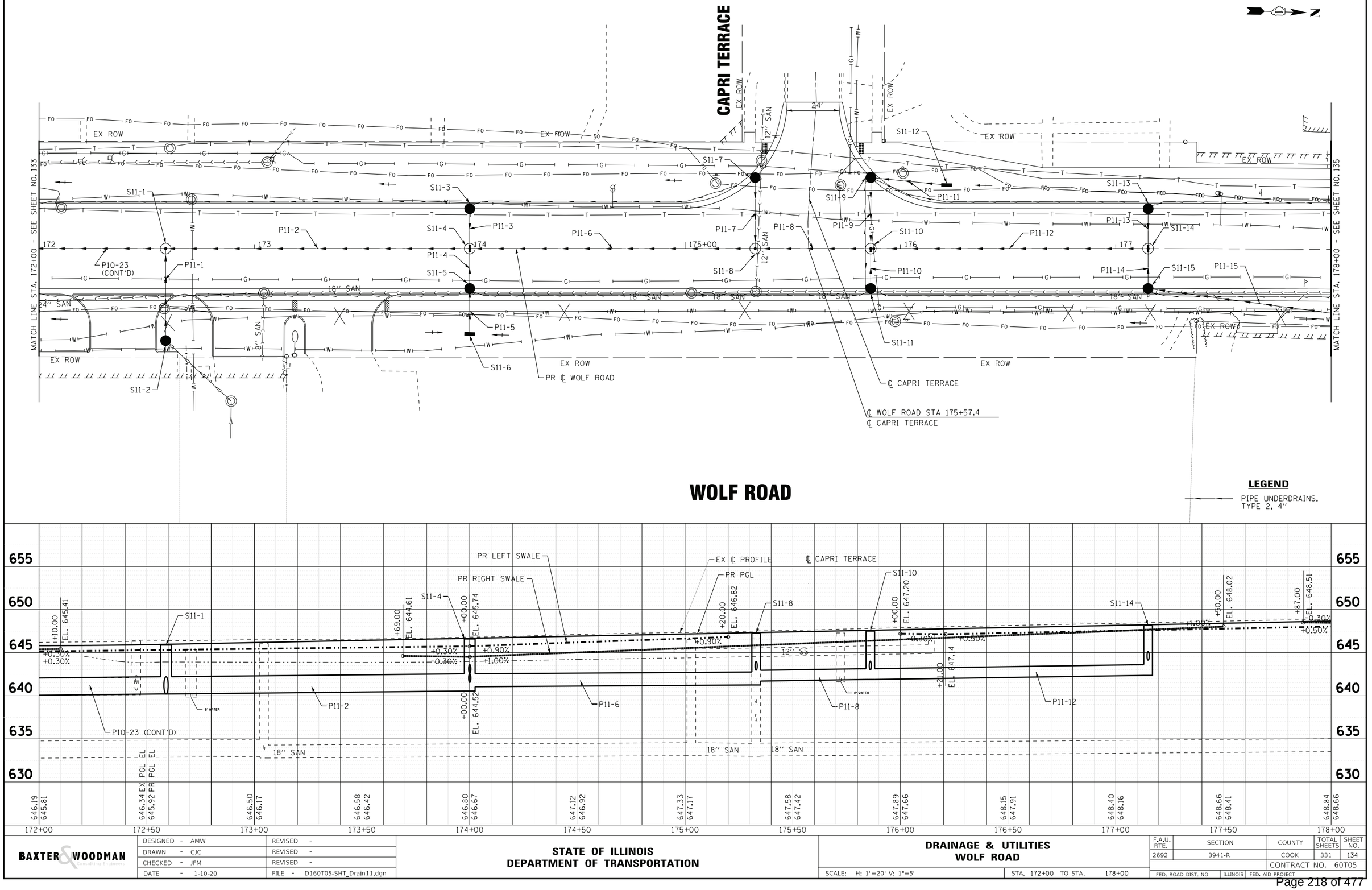

WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"

BAXTER & WOODMAN	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CJC	REVISED -	
	CHECKED - JFM	REVISED -	
	DATE - 1-10-20	FILE - D160T05-SHT_Drain11.dgn	

DRAINAGE & UTILITIES
WOLF ROAD

SCALE: H: 1"=20' V: 1"=5' | STA. 172+00 TO STA. 178+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2692	3941-R	COOK	331	134
		CONTRACT NO. 60T05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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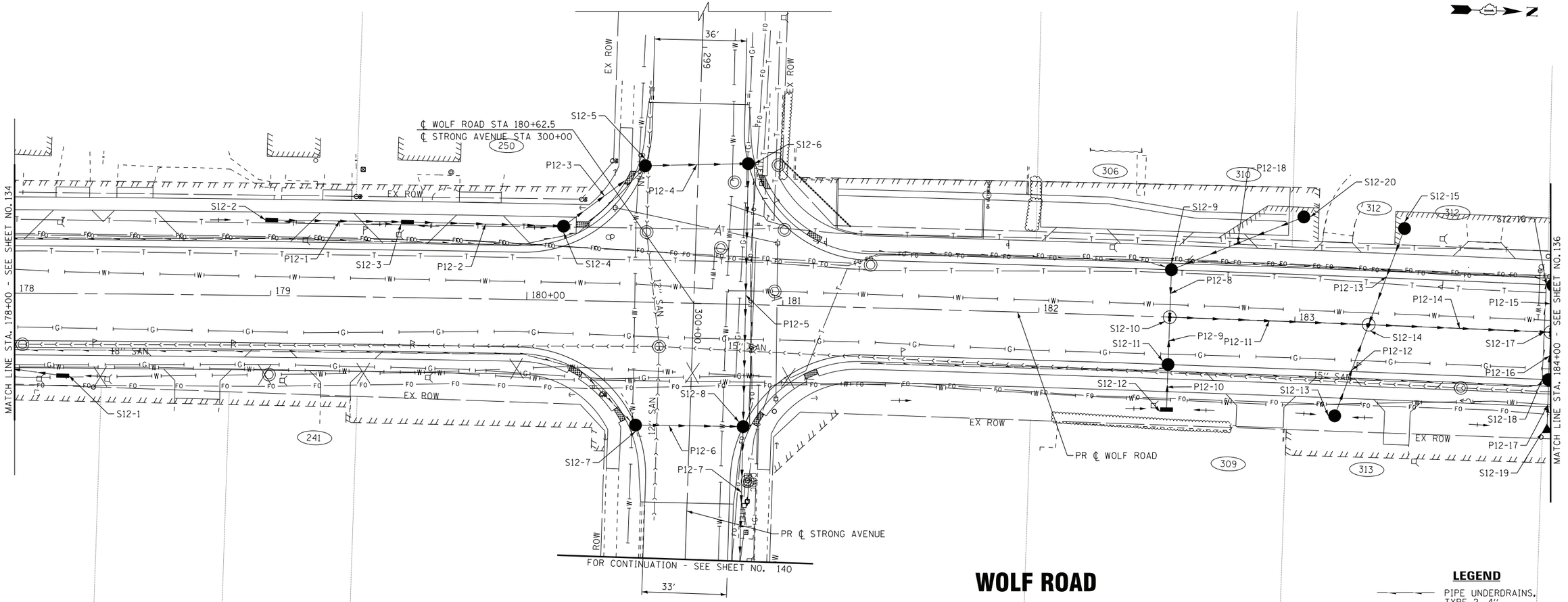
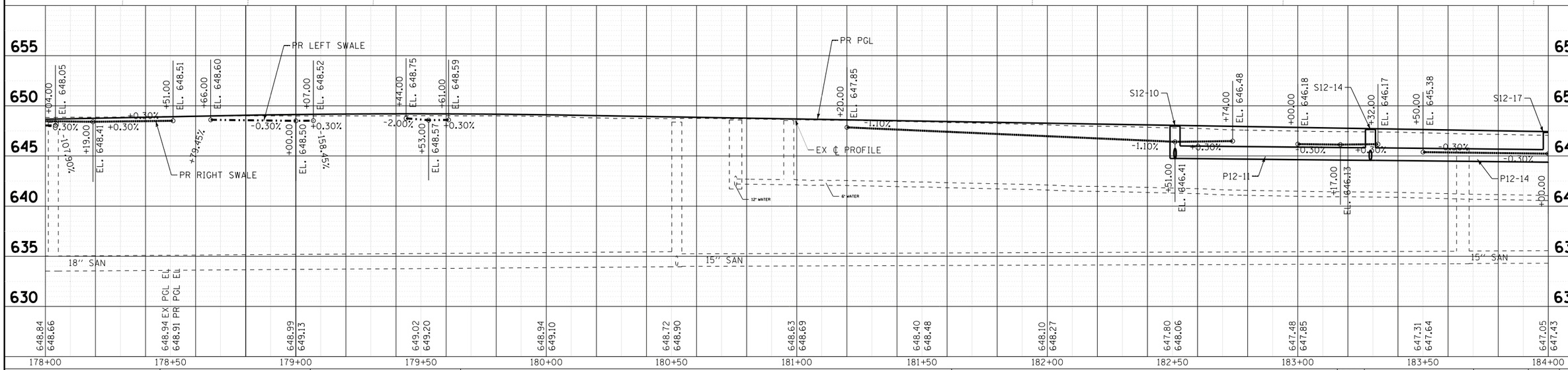
STRONG AVE



WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4''



BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES WOLF ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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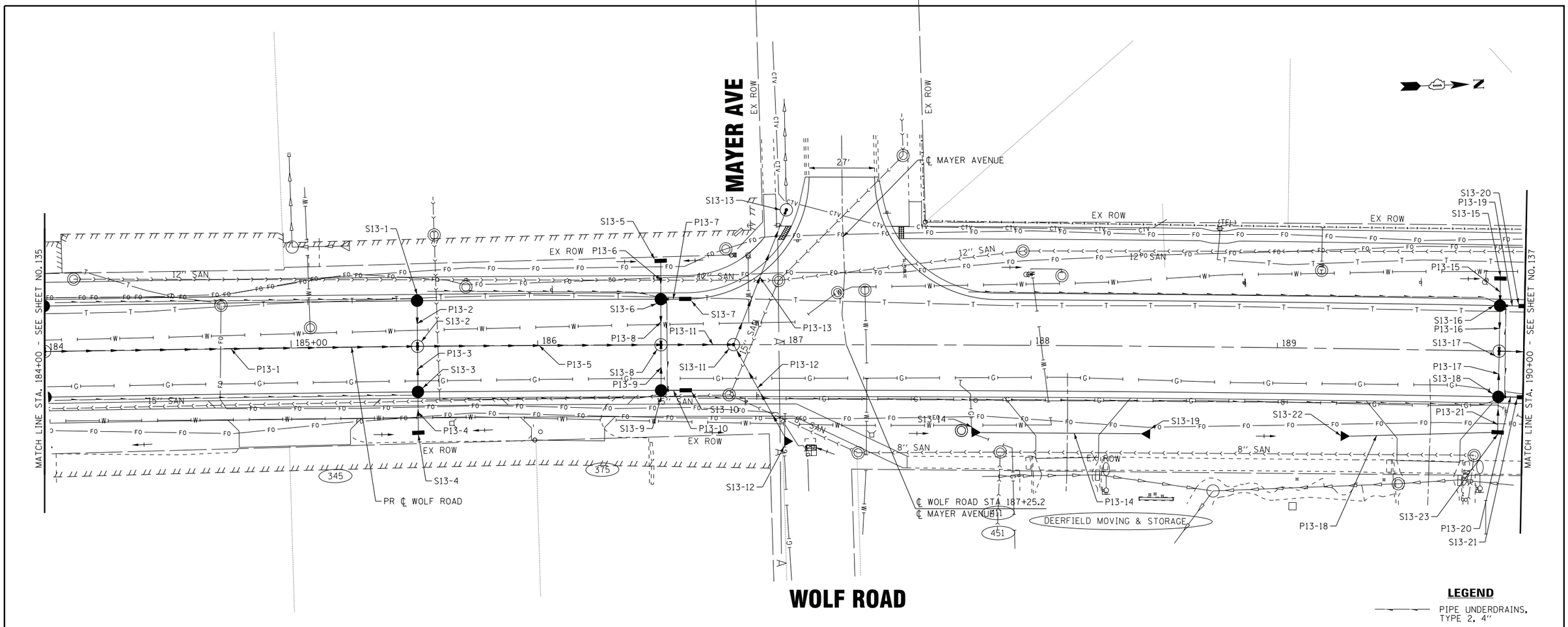

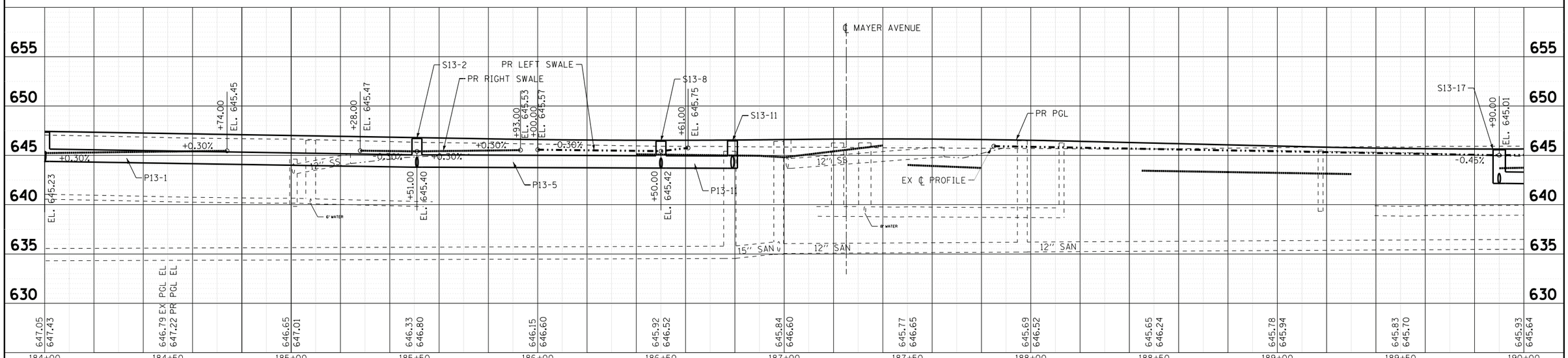

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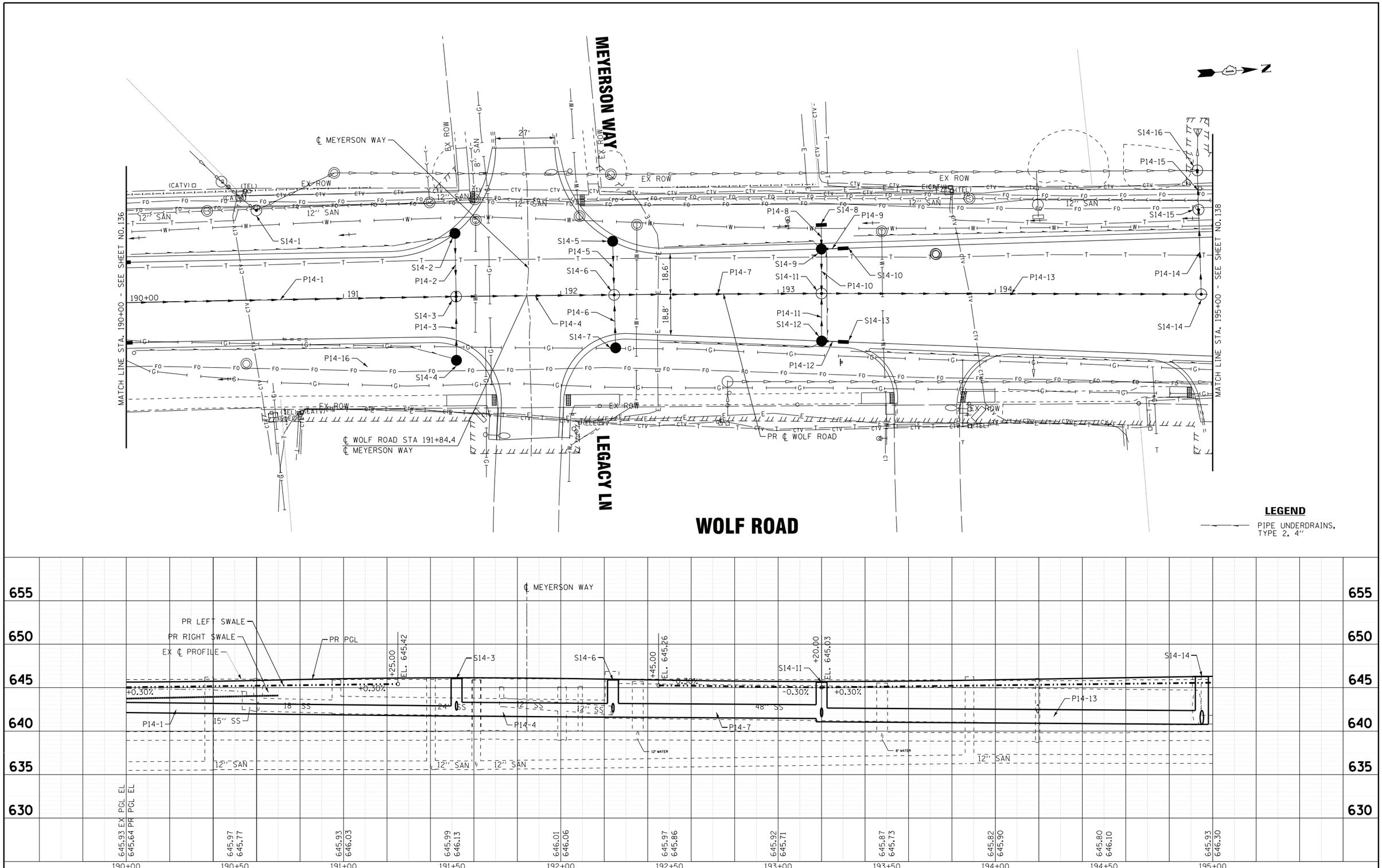

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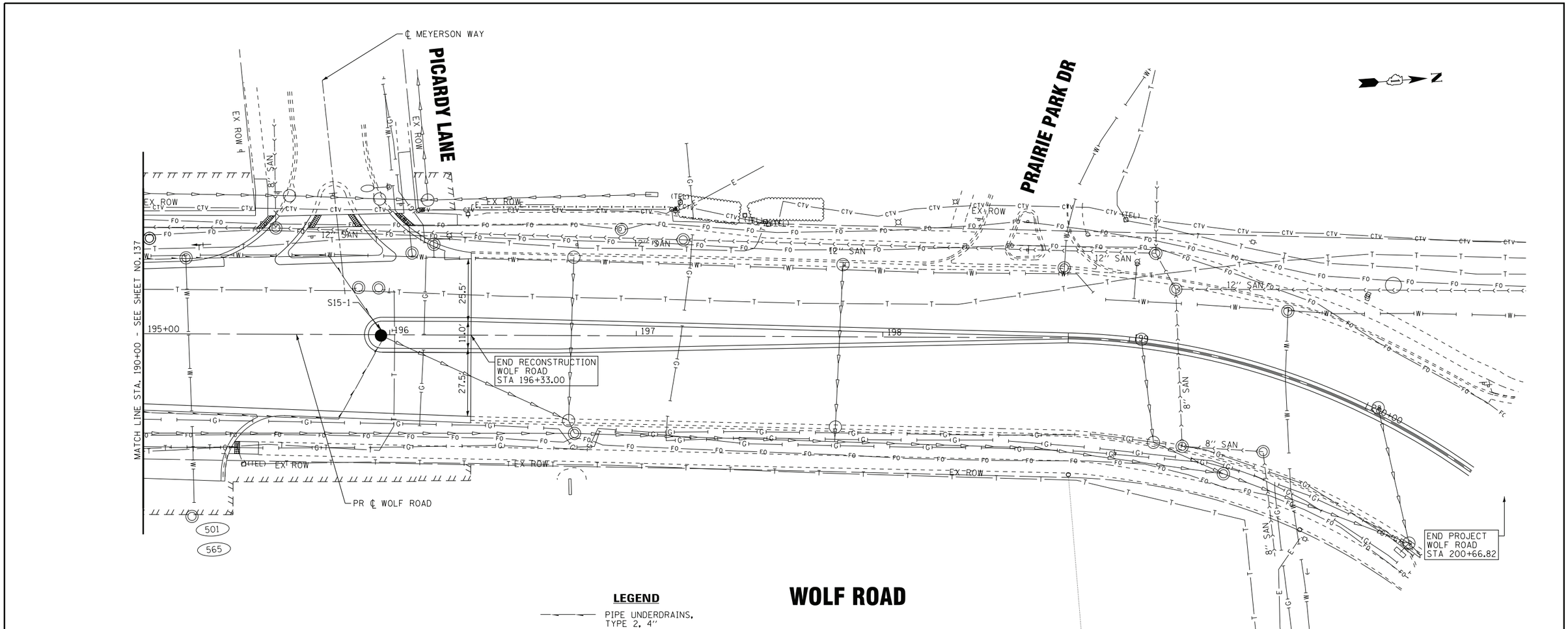
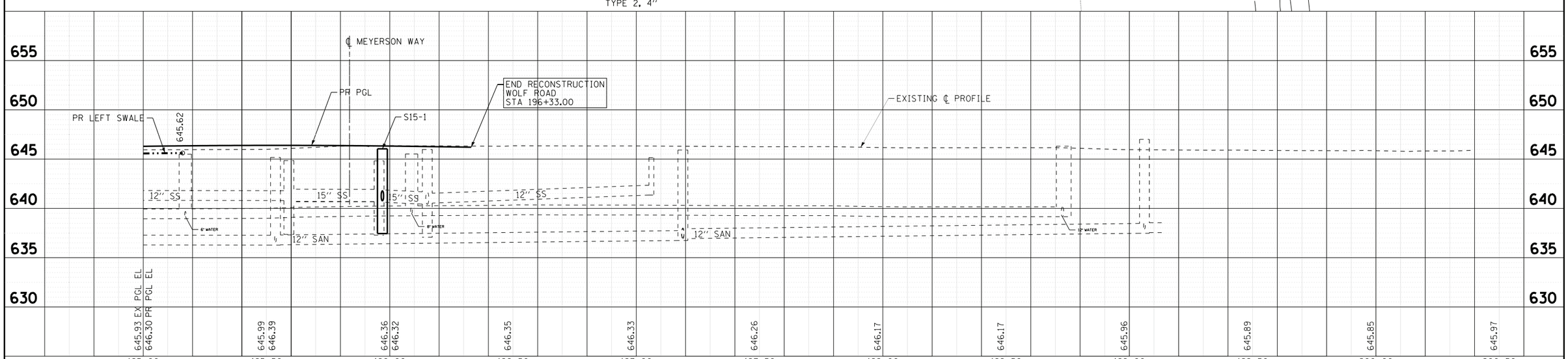


WOLF ROAD

LEGEND

PIPE UNDERDRAINS, TYPE 2, 4"



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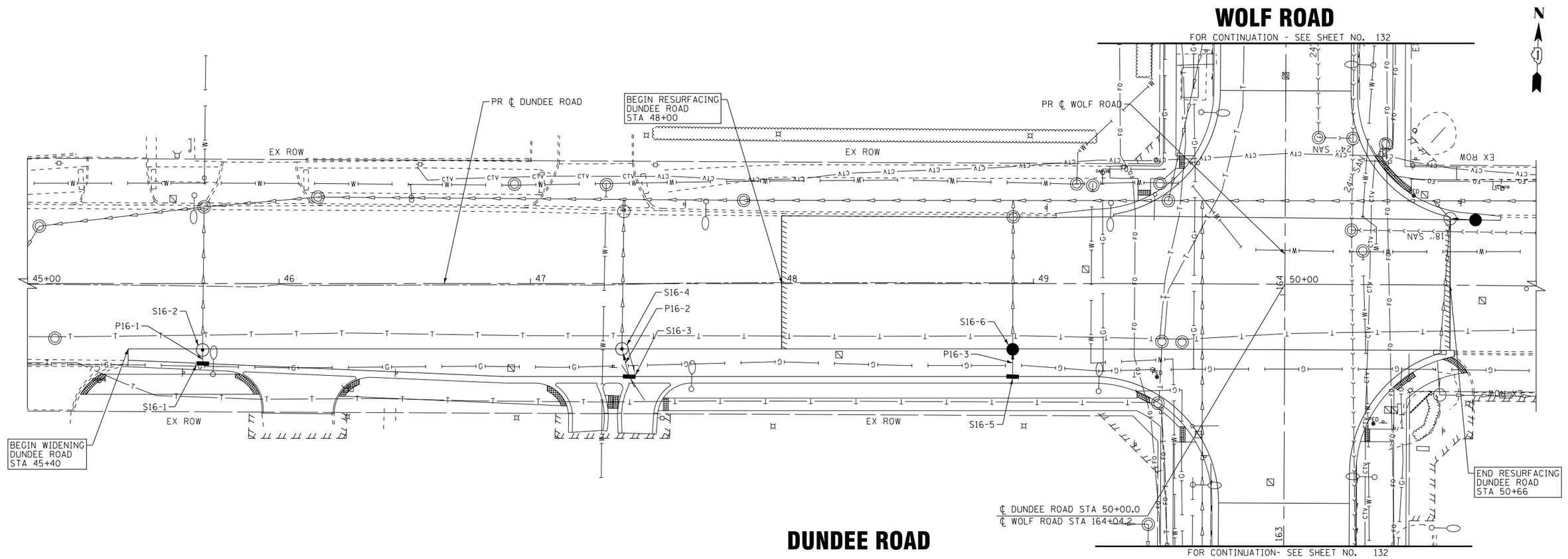

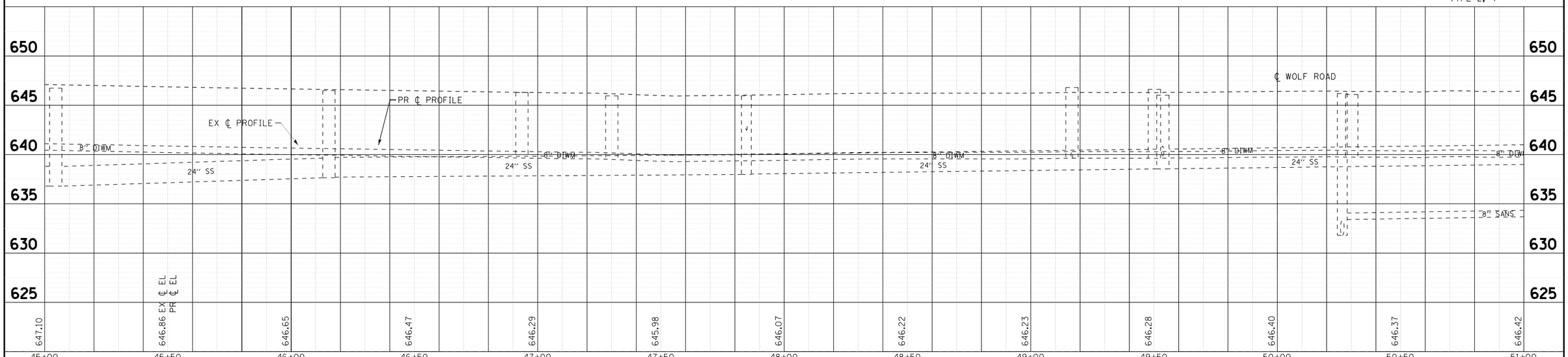

BAXTER & WOODMAN	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES DUNDEE ROAD	F.A.U. RTE. 2692	SECTION 3941-R	COUNTY COOK	TOTAL SHEETS 331	SHEET NO. 139
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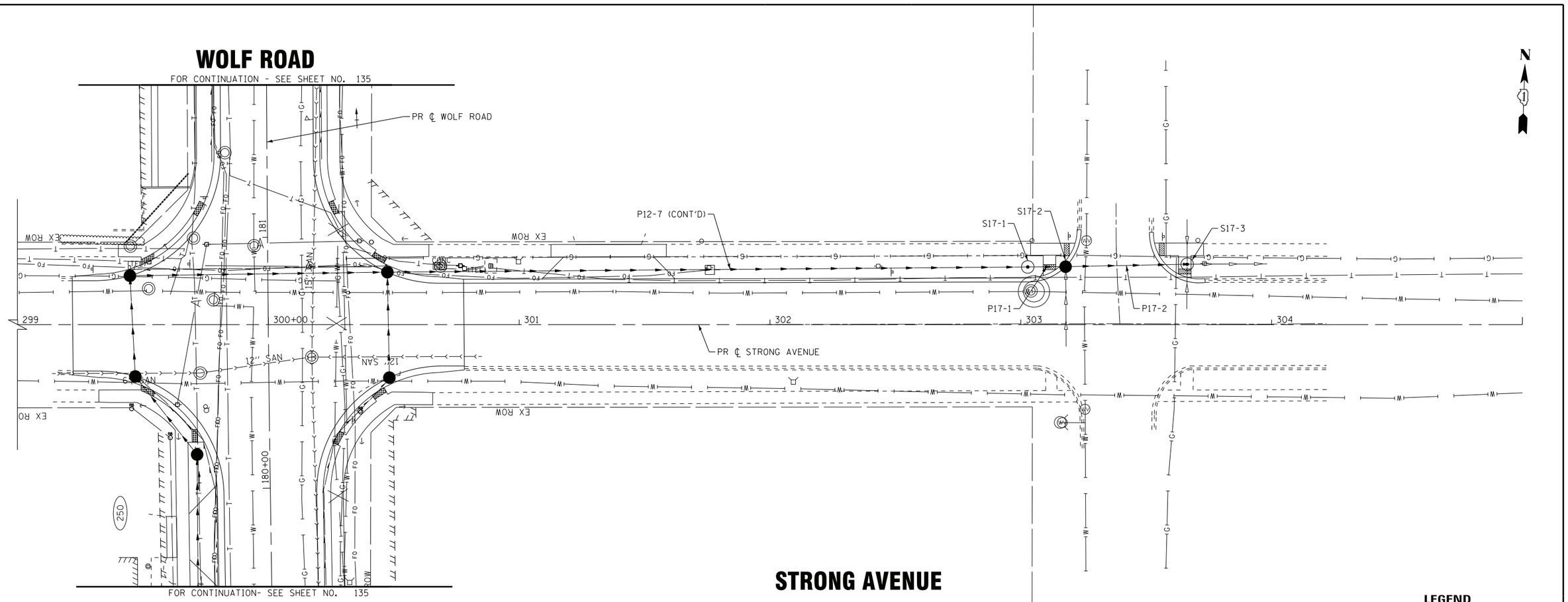

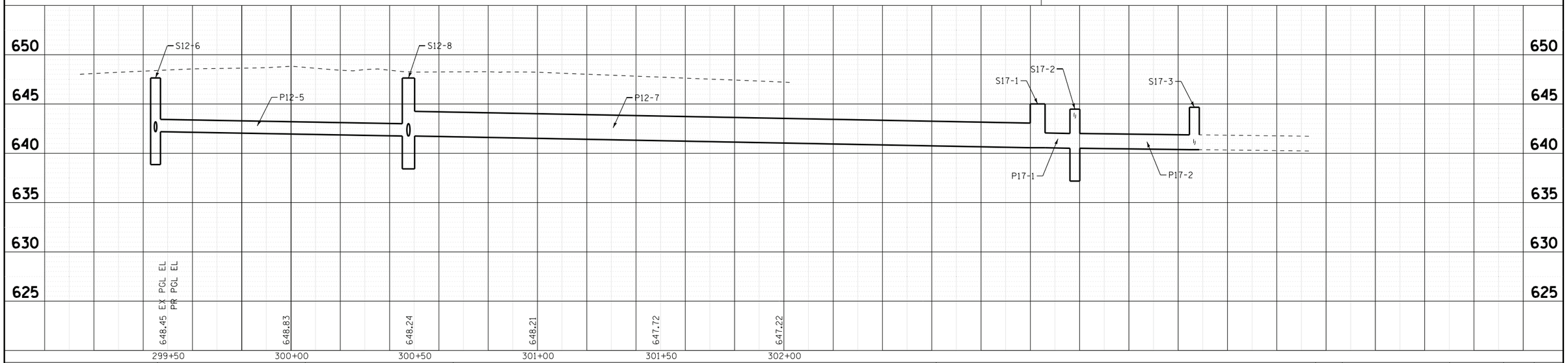

BAXTER & WOODMAN Consulting Engineers	DESIGNED - AMW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES STRONG AVENUE	F.A.U. RTE. 2692	SECTION 3941-R	COUNTY COOK	TOTAL SHEETS 331 / SHEET NO. 140
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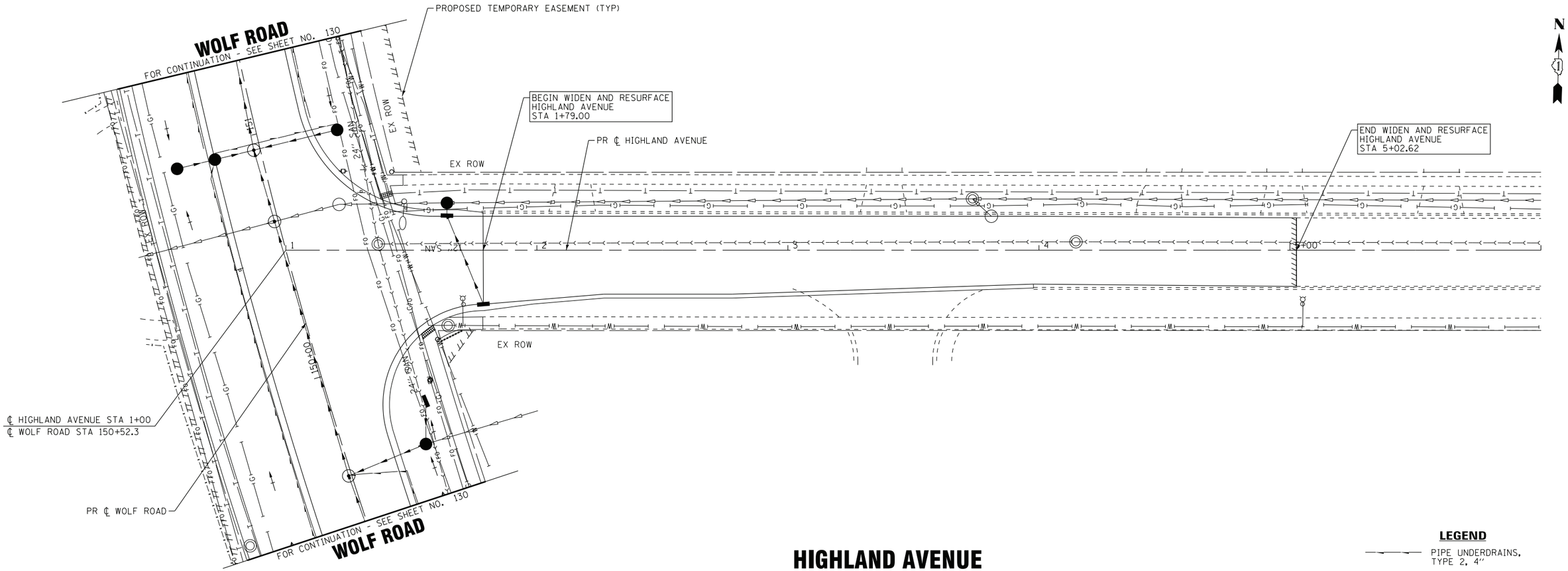

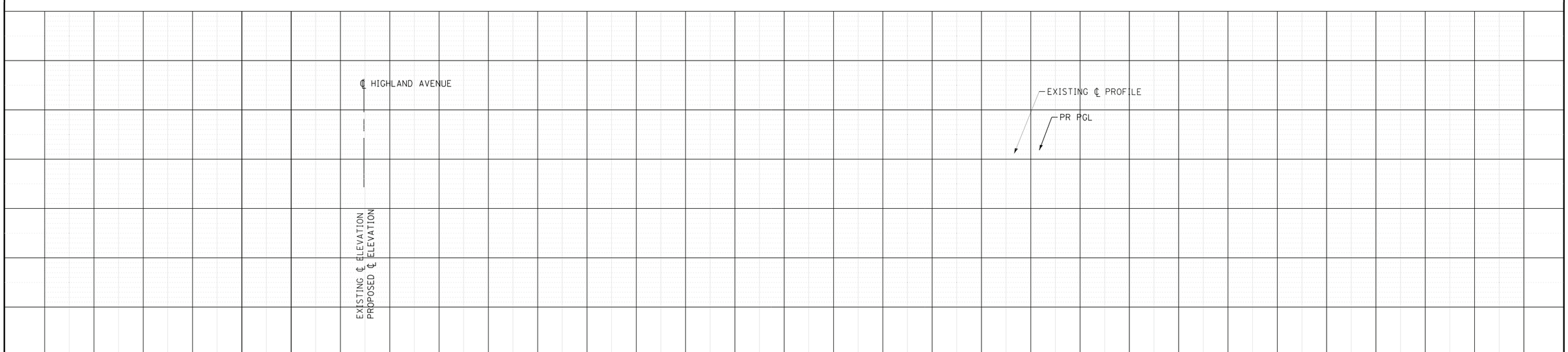

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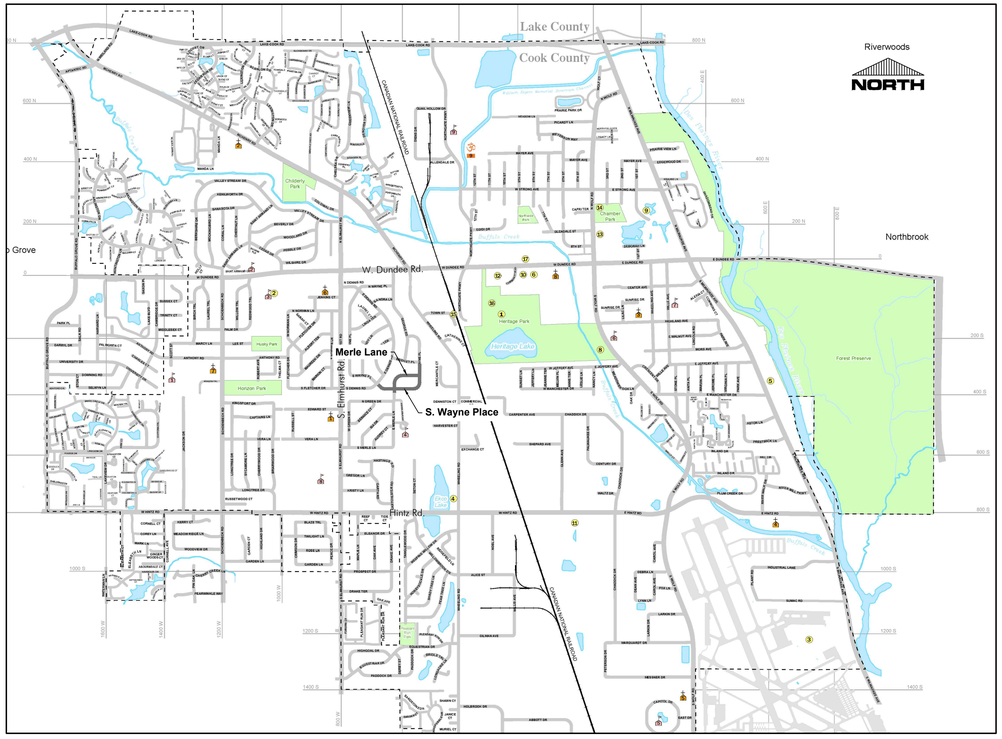
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

DUNHURST SUBDIVISION

WHEELING, ILLINOIS
COOK COUNTY



CONTACTS:
VILLAGE OF WHEELING: JON TACK, VILLAGE ENGINEER

VILLAGE OF WHEELING - VILLAGE HALL:
2 Community Boulevard
Wheeling, IL 60090
Tel: 847-459-2600
Fax: 847-459-9692

VILLAGE OF WHEELING - PUBLIC WORKS:
77 W. Hintz Road
Wheeling, IL 60090
Tel: 847-279-6900
Fax: 847-279-6420

PREPARED BY:
Haeger Engineering LLC
Illinois Prof. Design Firm #184-003152
100 E. State Parkway
Schaumburg, IL 60173
Tel: 847-394-6600
Fax: 847-394-6608
www.haegerengineering.com

BENCHMARKS:

Village of Wheeling BM-7

Brass Disk, Stamped: USACOE Station "Wheel-1", 1999 Located At NW Wingwall Northgate Pkwy Bridge, ~530' N of Dundee Rd.
Elevation = 649.184 (NAVD88)

Village of Wheeling BM-22

2.5" Alluminum Disk Stamped Village of Wheeling - Survey Marker Located S. Side of Hintz Rd. Bridge, ~500' W. of Wheeling Rd
Elevation = 649.119 (NAVD88)

Site Benchmark:

Northeast bolt on fire hydrant located 5 feet ± of the north property line on the east side of Schoenbeck Road.

Elevation = 668.47

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

Note:
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

INDEX TO SHEETS

NO.	DESCRIPTION
C1.0	TITLE SHEET
C2.0	GENERAL NOTES AND SPECIFICATIONS
C2.1	GENERAL NOTES, SPECIFICATIONS, AND TYPICAL SECTIONS
C2.2	SUMMARY OF QUANTITIES
C3.0	EXISTING CONDITIONS AND DEMOLITION PLAN
C3.1	EXISTING CONDITIONS AND DEMOLITION PLAN
C3.2	EXISTING CONDITIONS AND DEMOLITION PLAN
C3.3	EXISTING CONDITIONS AND DEMOLITION PLAN
C3.4	EXISTING CONDITIONS AND DEMOLITION PLAN
C4.0	GEOMETRY AND PAVING PLAN - SOUTH WAYNE PLACE
C4.1	GEOMETRY AND PAVING PLAN - EAST WAYNE PLACE
C4.2	GEOMETRY AND PAVING PLAN - MERLE LANE
C5.0	DRAINAGE PLAN AND PROFILE - SOUTH WAYNE PLACE
C5.1	DRAINAGE PLAN AND PROFILE - SOUTH WAYNE PLACE
C5.2	DRAINAGE PLAN AND PROFILE - EAST WAYNE PLACE
C5.3	DRAINAGE PLAN AND PROFILE - MERLE LANE
C5.4	DRAINAGE PLAN AND PROFILE - MERLE LANE
C6.0	UTILITY PLAN AND PROFILE - SOUTH WAYNE PLACE
C6.1	UTILITY PLAN AND PROFILE - SOUTH WAYNE PLACE
C6.2	UTILITY PLAN AND PROFILE - EAST WAYNE PLACE
C6.3	UTILITY PLAN AND PROFILE - MERLE LANE
C6.4	UTILITY PLAN AND PROFILE - MERLE LANE
C7.0	TYPICAL DETAILS
C7.1	TYPICAL DETAILS
C7.2	TYPICAL DETAILS
C7.3	TYPICAL DETAILS

LEGEND

Existing Symbol	Description	Proposed Symbol
	Storm Sewer Manhole	
	Catch Basin	
	Inlet	
	Flared End Section	
	Headwall	
	Area Drain	
	Sanitary Sewer Manhole	
C.O.	Clean Out	C.O.
	Storm Sewer	
	Storm Sewer Service	
	Perforated Underdrain	
	Sanitary Sewer	
	Sanitary Sewer Service	
	Combined Sewer	
FM	Force Main	FM
W	Water Main	W
	Water Main Service	
	Fire Hydrant	
	Valve Vault	
	Valve Box	
B	B-Box	B
	Well Head	
	Light Pole	
	Light Pole With Mast Arm	
	Traffic Signal	
	Traffic Signal With Mast Arm	
H	Hand Hole	H
	Fence	
	Guardrail	
	Pipe Bollard	
	Sign	
G	Gas Valve	G
G	Gas Line	G
E	Electric Line	E
OHW	Overhead Utility Line	OHW
FO	Fiber Optic Line	FO
E	Electrical Pedestal	E
E	Electric Manhole	E
	Guy Wire	
	Utility Pole	
T	Telephone Pedestal	T
T	Telephone Manhole	T
T	Telephone Line	T
CATV	Cable TV Line	CATV
C	Cable TV Pedestal	C
	Flagpole	
M	Mailbox	M
	Handicapped Parking Stall	
X	Number of Parking Stalls	X
	Curb & Gutter	
	Reverse Pitch Curb & Gutter	
	Depressed Curb	
	Retaining Wall	
C XXX.XX	Curb Elevation and	C XXX.XX
G/P XXX.XX	Gutter/Pavement Elevation	G XXX.XX
XXX.XX	Pavement Elevation	P XXX.XX
XXX.XX	Sidewalk Elevation	W XXX.XX
XXX.X +	Ground Elevation	XXX.X
T/W XXX.XX	Top of Wall Elevation	T/W XXX.XX
B/W XXX.XX	Bottom of Wall Elevation	B/W XXX.XX
	Open Lid Frame & Grate	Gr XXX.XX
	Closed Lid Frame & Lid	Rim XXX.XX
	Swale	
	Hardscape Flow	
	Softscape Flow	
XXX	Contour Line	XXX
	Wetland	
	Wetland Buffer	
	Normal Water Level	
	High Water Level	
	Flood Plain	
	Flood Way	
	Deciduous Tree	
	Coniferous Tree	
	Bush	
	Brushline	
B-1	Soil Boring	B-1
	Over Land Flow Route	
	Recommended Garage Hand With Driveway Slope	X.X%

Village Review — Revision
04-01-2020 — Date
1 — No.

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consulting engineers • land surveyors
100 East State Pkwy, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003152
www.haegerengineering.com

TITLE SHEET

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet C1.0 / C9

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Plot Date: Apr 03, 2020 - 12:54pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Title Sheet And Notes.dwg

VILLAGE OF WHEELING NOTES

GENERAL NOTES

1. 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, 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 Village standards and requirements shall govern.
2. 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 Village standards and requirements shall govern.
3. 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.
4. All elevations are based upon NAVD 88 Datum.
5. The contractor shall notify the Village of Wheeling Engineering (847) 229-4600 and Plumbing Inspector (847) 459-2620 two (2) business days prior to the start of construction. The Contractor shall also contact J.U.L.I.E. (800) 892-0123 at least 48 hours prior to starting work. All other agencies shall also be notified as required.
6. The contractor shall restore all disturbed off-site areas to at least a condition that existed prior to construction at the cost of the contractor.
7. All existing field drainage tiles encountered or damaged during construction are to be restored to their original condition, properly rerouted, and/or connected to the storm sewer system.
8. The contractor and engineer shall maintain records for "as built" drawings which shall be submitted to the Village Engineer at the completion of this project.
9. The contractor shall provide video tape(s) or still pictures as required by the Village Engineer prior to beginning work.
10. One set of stamped approved plans shall be on site at all times during construction of the project.
11. It shall be the responsibility of the Contractor to call at least 48 hours in advance and set up the necessary and proper inspection(s) for all work to be performed.
12. All unpaved areas of right-of-way are to be sodded (salt-tolerant) where disturbance exceeds 18-in in width. Where restoration is less than 18-in in width, restoration shall be salt-tolerant seed and erosion control blanket. All restoration areas to include six (6) inches of topsoil.
13. Storm and sanitary sewer lines shall be cleaned of all construction debris and silt prior to Village inspection.
14. The contractor shall maintain and keep at the job site, an up to date set of "Record Drawings" showing all changes from the original plans. 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 cleanouts must be shown with tied dimensions. The elevation of all rims and inverts shall be verified by the contractor and shown on the "Record Drawings". 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 three (3) sets of complete "Record Drawings," and, if required, one (1) set of reproducible mylars.
15. It shall be the responsibility of the Contractor's Superintendent (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.
16. 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, and shall be obtained 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.
17. All obstructions that are not approved by the Village and which currently exist in the right-of-way shall be removed, which include all rocks and boulders.
18. OSHA rules, regulations, and requirements shall be strictly adhered to during the execution of all work to be performed under the approved engineering plans.
19. Contractor shall pay special attention to the existing street light electrical conduit. If electrical conduit is damaged, repairing only damaged portion of conduit is not allowed; the entire section of electrical conduit between the nearest poles shall be replaced at the cost of the contractor.

GENERAL UNDERGROUND UTILITIES

1. Trench backfill shall be provided under and within two feet (2') of all existing and proposed back of curb or if non-existent, the edge of pavement.
2. All manholes and similar structures must be a minimum of 48" diameter, and valve vaults must be a minimum of 60" diameter, unless approved otherwise.
3. For modification or repair of all sewers and addition of or repair of sewer clean outs: non-shear couplings shall be used in connection of sewer pipes with prior approval from Village Engineering Department.
4. A minimum ten feet (10') horizontal separation shall be maintained between watermain and sewer or drain lines. Unless precluded by local conditions where the watermain is located closer than ten feet (10') horizontally or the invert of the watermain is located closer than eighteen inches (18") vertically above the crown of any sewer or drain line, then: The sewer or drain line shall be constructed of pipe equivalent to watermain standards and shall be pressure tested to assure water tightness in accordance with the Illinois Environmental Protection Agency (I.E.P.A.) requirements.
5. When a watermain crossing over a sewer or drain line is closer than eighteen inches (18") vertically above the crown of that sewer or drain line, then that sewer or drain line shall be constructed according to the requirements listed in item 4) above.
6. If the watermain passes under a sewer or drain line, the following conditions shall be met: a vertical separation of eighteen inches (18") between the invert of the sewer or drain line and the crown of the watermain shall be maintained with support provided for the sewer or drain line(s) to prevent any moving or settling, rupture or breaking, and sewer or drain line shall be constructed of pipe as listed in item 4) above.
7. The cost of all required testing of underground utilities shall be incidental to the construction cost of the same.
8. The contractor shall mark location of the ends, if necessary, of any sanitary, water, and storm services with buried 4" x 4" wood posts extending a minimum of three (3) feet out of the ground and painted red, blue, and green respectively, with appropriate signs attached stating "Caution: B-box - Do not remove until landscaping is complete."
9. When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole, the sewer shall be circular saw-cut by proper tools ("sewer-tap" machine or similar) with proper installation of hub-wye saddle or hubtee saddle.
10. Sewer connections to an existing structure shall be machine cored.
11. A flexible rubber boot shall be used at all sanitary sewer manhole penetration connections.
12. Eccentric cone sections shall be used on all manholes, catch basins, vaults, etc. unless approved otherwise by the Village Engineer.
13. All sewer construction requires stone bedding 1/4" to 1" in size, (I.D.O.T. equivalent CA-11, CA-13) with a minimum thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches, nor greater than eight (8) inches.
14. All sewer construction shall conform to the approved permit plans unless revisions have been approved by the Village, as well as any and all other necessary agencies.
15. Structures shall have a maximum of twelve inches (12") of adjustment with any combination up to a maximum of three (3) rings.
16. Protect and/or cover all pipes and underground structures until final grading, paving, and landscaping are complete.
17. Trench Backfill material for both paved areas and parkways shall be CA-6, Grade 8. For detail, see Trench Backfill Standard on the Typical Details. Density Test of compacted CA-6 will be performed by a consultant retained by the contractor. If the density requirement (95% modified proctor density) is not met, further trench backfilling will not be allowed until CA-6 is compacted to Village requirements. Contractor is responsible for providing modified proctor density data of CA-6 and the cost of this work shall be included in the cost of water main.
18. Throughout all phases of construction, including suspension of work, and until the final acceptance, the contractor shall keep the site clean and free from rubbish and debris. The contractor shall also abate dust nuisance by cleaning, sweeping and sprinkling with water or other means as necessary. Whenever requested by the Engineer, the contractor shall furnish and operate a self loading motor sweeper with spray nozzle at least once each working day for the purpose of keeping paved areas acceptably clean wherever construction, including restoration, is incomplete unless directed by the Engineer otherwise.
19. Curb and Gutter, Sidewalk, Driveway and Sodding Shall be restored within four weeks after all service lines are made to each street. If temperature is above 80 degrees farenheit, sodding should be delayed until temperature is under 80 degrees. Watering of new sod shall be performed per IDOT standard specifications for Road and Bridge Construction, article 252.08.
20. Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles on public streets is maintained at all times.

PAVING

1. Base course shall be aggregate base course, type B (crushed limestone, grade 8), conforming to the standard specifications (see plans for thickness).
2. Surface course and binder course shall be bituminous concrete, Class I hot mix (see plans for thickness).
3. Curb and gutter, barrier curb, and sidewalk shall be Portland Cement concrete with air entrainment of five (5) percent, plus or minus one (1) percent. A six (6) bag mix shall be used. Maximum allowable slump is three (3) inches. Curing compound shall be applied after finishing. Curb backfill shall be incidental to the construction of the curb. Locations of water and sewer service lines shall be clearly marked on all new curbs.
4. A 3/4 inch fiber expansion joint shall be installed when the curb abuts a sidewalk or existing curb.
5. Curb and gutter and barrier curb shall have sawed contraction joints at maximum intervals of twenty (20) feet and 3/4 inch fiber expansion joint at maximum intervals of sixty (60) feet.
6. Subgrade shall be finished to ± 0.1 feet of design subgrade elevations by the earthwork contractor. Fine grading for pavements and sidewalks shall be the responsibility of the paving contractor.
7. The base course shall be primed at the rate of 0.25 to 0.50 gallons per square yard with a liquid asphalt conforming to I.D.O.T. standards and shall be appropriate for prevailing weather conditions. Prime coat and cleaning of the existing surface shall be considered as incidental to the contract work.
8. Prior to placement of any pavement, including curbs, the subgrade shall be proof rolled with a fully loaded tandem axle dump truck (minimum 20 tons). Proof rolling shall be witnessed by the materials consultant and the Village Engineer. Proof rolling shall be required on the base material as well. The density of the subgrade base and base material, as well as the bituminous material, shall also be tested by the materials consultant. The test results shall be provided to the engineer for his use in determining the adequacy of the pavement design.
9. All structures such as manholes, valve boxes, etc. shall be adjusted to meet the new surface elevation. Furthermore, structures such as manholes, valve boxes, etc. that lie within Portland Cement Concrete slab areas (i.e. driveways, etc.) shall be boxed out by means of a cut out area with full depth joints.
10. All pavement, walk, and curb removal shall be accomplished by saw cutting prior to removal.
11. All pavement areas such as driveways shall have a two (2) inch diameter galvanized steel conduit buried beneath them at a depth of 24" (minimum) for future street light cable(s). The conduit shall extend a minimum of three (3) feet beyond the back of curb or edge of the pavement if no curb exists.
12. All drives in the right-of-way of public streets and in industrial and truck loading areas shall be a minimum of eight (8) inch thick portland cement concrete on a four (4) inch compacted granular base.
13. Saw cut existing curb at limit of the work and replace with depressed curb as required. Drill and dowel all new curb, including depressed curb, to existing as required.
14. All driveway material thicknesses shall meet the minimum pavement standard requirements of the Village of Wheeling.
15. Driveway apron removal and 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.
16. All dimensions for curbs are to back of curb, unless otherwise specified.
17. The use of cold-patch for temporary pavement patching shall be approved by the Village Engineer **prior** to placement.

STORM SEWER

1. All storm sewer pipes shall be reinforced concrete pipe conforming to ASTM C-76 Class IV with confined O-ring gasketed joints in compliance with ASTM C-361 or Tylox Super Seal gasket conforming to ASTM C-361.
2. Elevations of flared end sections shall be interpreted at the invert of the flared endsection.
3. All storm structures are to have open (grate) lids unless specified as having closed lids (C.L.).
4. Rim grades for storm sewer structures located within the curb and gutter are edge of pavement elevations.
5. All sump pump and drain tile discharges shall be routed to the storm sewer system. Sump pump service connections shall be four (4) inch PVC SDR 26 conforming to ASTM D2751 or ASTM D3034 at a minimum slope of 2% and shall be air gapped. Minimum cover shall be two (2) feet, wherever possible.
6. All downspouts, footing drains, and outside drains shall discharge to the storm sewer or over ground as approved by the Village Engineer.
7. Minimum diameter of storm sewer shall be 12" unless approved otherwise.
8. No storm water shall be discharged to the sanitary sewer system.
9. Any storm sewer damaged during the work shall be repaired with full pursuant permanent or temporary storm sewer pipe. Use of temporary under-sized storm sewer pipe is strictly prohibited.

WATER MAIN

1. All water mains shall be pressure tested per requirements of the Village of Wheeling. Method shall be a leakage test of 150 p.s.i. held for 2 hours. 200 p.s.i. on fire suppression line.
2. All water mains shall be chlorinated per the requirements of the Village of Wheeling.
3. All water mains to be ductile iron pipe per ANSI A21.51 (AWWA C151), Class 52, with "push on" or mechanical joint as required by the Village Engineer. All Ductile Iron Pipe to be cement lined per ANSI A21.4 (AWWA C104).
4. The minimum cover for watermain shall be 5.5 feet from finished grade to top of main (6 ft. max. unless approved otherwise by the Village Engineer).
5. All water services shall be installed per the Village Standard.
6. Water service and fire suppression systems shall be made and installed by a licensed plumber, in accordance with the Illinois State Plumbing Code.
7. 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. Contractor's expense. The Village of Wheeling Public Works Utility Division (847-229-4600) at least 48 hours prior to tap and inspections.
8. The Village of Wheeling Plumbing Inspector (847) 459-2620 and Engineering Inspector (847) 229-4600 shall be contacted at least 48 hours prior to all water service work.
9. All B-boxes shall be 1-1/2" Mueller or Ford telescopic B-box with "WATER" imprinted on the lid of the box and a brass pentagon plug.
10. All fastener hard ware (i.e. nuts, bolts, and washers) associated with fittings shall be stainless steel.
11. All fittings shall be restrained by thrust resistant wedge, retainer glands, manufactured with torque limiting twist off nuts.
12. All brass fittings for services lines shall be "Lead Free" in accordance with AWWA C800, latest revision, made from UNS/CDA 89520 or UNS/CDA 89833. Brass alloy UNS/CDA 83600 is not acceptable for any brass component in contact with potable water.
13. Any lead caulking encountered at existing service line connections to the old watermain shall be removed and properly disposed of.

IEPA NOTES

Sewers crossing water mains shall be laid to meet the following specifications:

1. Horizontal Separation:
   a. Whenever possible, a water main must be laid at least ten feet horizontally from any existing or proposed drain or sewer line.
   b. Should local conditions exist which would prevent a lateral separation of ten feet, a water main may be laid closer than ten feet to a storm or sanitary sewer provided that the water main invert is at least eighteen inches above the crown of the sewer, and is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
   c. If it is impossible to obtain proper horizontal and vertical separation as described in 1 and 2 above, both the water main and sewer must be constructed of pipe material which would conform to water main standards and be pressure tested to assure water tightness before backfilling.
2. Vertical Separation:
   a. Whenever water mains cross house sewers, storm drains or sanitary sewers, the water main shall be laid at such an elevation that the invert of the water main is eighteen inches above the crown of the drain or sewer. This vertical separation must be maintained for that portion of the water main located within ten feet horizontally of any sewer or drain crossed. This must be measured as the normal distance from the water main to the drain or sewer.
   b. Where conditions exist that the minimum vertical separation set forth in 1 above cannot be maintained, or it is necessary for the water main to pass under a sewer or drain, one of the following two measures must be taken:
      i. The water main shall be installed within a PVC carrier pipe and the carrier pipe shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least ten (10) feet.
      ii. The involved sewer or drain shall be constructed of pipe material which would conform to water main standards until the normal distance from the water main to the sewer is at least ten (10) feet.
   c. In making such crossings, center a length of water main pipe over the sewer to be crossed so that the joints will be equidistant from the sewer and as remote there from as possible. Where a water main must cross under a sewer, a vertical separation of eighteen inches between the invert of the sewer and the crown of the water main shall be maintained, along with means to support the larger sized sewer lines to prevent their settling and breaking the water main.

   The horizontal and vertical separation between water service lines and all sanitary sewers, storm sewers, or any drain should be the same as for water mains, as detailed above, except that when minimum horizontal and vertical separation cannot be maintained, water pipe as described under Vertical Separation above, may be used for sewer service lines.

IEPA CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) NOTES

CCDD Compliant Material Disposal:

1. Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
2. The Contractor will be required to make all arrangements for coordination and submission of the testing reports and certification documents with their chosen CCDD disposal facility. Written confirmation of preliminary approval must be provided from the disposal facilitiy and confirmed by the Village as acceptable.
3. All surplus, clean material generated from the Contractor's activities must be disposed of at an IEPA permitted CCDD facility. The Contractor is responsible for providing documentation to the Village for each load hauled off-site showing the quantity of material and the location the material was disposed of.
4. The removal and disposal of CCDD Compliant trench spoils for the installation of the water main shall be considered incidental to the cost of the pipe.
5. No extra compensation will be allowed to the Contractor for any expenses incurred complying with the requirements including, but not limited to: delays, inconvenience, or interruptions in the work resulting from compliance with these requirements.

CCDD Non-Compliant Material Disposal:

1. Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
2. A quantity of 50 CY has been established in the bid proposal to address areas of possible non-compliant material. If such materials are found during construction, the Contractor shall notify the Village immediately. Suspect materials are to be set aside on non-permeable tarps/plastic, etc. and covered until they may be assessed. If after assessment the material is found to be non-compliant, it shall be loaded onto trucks for proper landfill disposal off-site. Disposal documentation will be provided by the Contractor to the Village prior to any applications for payment being requested.
3. The Village will provide a third party testing company to sample and analyze discovered suspect non-compliant material. After receipt of the analysis report, the Owner will determine the probable limits of contamination and confirm with the Contractor in order to establish a material quantity. Work shall include all labor, equipment,materials, trucking, re-handling, etc. as required to stockpile and dispose of material, whether compliant or not. Only material determined to be non-compliant shall be paid for at the provided unit price. Re-handling and disposal of material determined to be compliant shall be incidental to the water main pipe installation.

SUPPLEMENTAL NOTES

Note: In case of a conflict, contradiction, or discrepancy between the Village of Wheeling Notes or Village of Wheeling details and the Supplemental Notes, the Village of Wheeling Notes/Details shall apply, unless otherwise approved by the Village of Wheeling Engineer.

GENERAL NOTES

1. Definition of Terms:
   a. "Owner" shall mean the person or entity with which Haeger Engineering, LLC has been contracted with to prepare the Plans and Specifications.
   b. "Engineer" shall mean Haeger Engineering, LLC.
   c. "Contractor" shall mean the persons or entities responsible for performing and constructing the work described in the Plans, Specifications and other Construction Documents including but not limited to furnishing all labor, materials, tools, equipments, and other incidentals necessary.
   d. "Plans and Specifications" shall mean the Engineering Drawings and any Specifications prepared by Haeger Engineering, LLC, the Engineer.
   e. "Jurisdictional Agency" shall mean any local, municipal, county, township, state or federal entity of government or other entity having jurisdiction of some aspect of the project from whom approval, permit and/or review and approval was required.
2. The Specifications governing this project are as follows:
   a. All applicable Village/City and other applicable Jurisdictional Agency Ordinances, Codes, Regulations, Requirements, Policies, Specifications, Standards, etc.
   b. Roadway and Earthwork construction shall conform to the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction", latest edition and any supplemental "Supplemental Specifications and Recurring Special Provisions" as well as any applicable IDOT Highway Standards. Hereafter these items shall be collectively be referred to as the IDOT Standard Specifications.
   c. Water Main, Storm Sewer, and Sanitary Sewer construction shall conform to the "Standard Specifications for Water and Sewer Construction in Illinois", latest edition.
   d. Soil Erosion and Sedimentation Control shall conform to the Illinois Environmental Protection Agency (IEPA) "Illinois Urban Manual" (IUM), latest edition and "Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control", latest edition.
   e. Traffic Control shall conform to the "Manual of Uniform Traffic Control Devices" (MUTCD), latest edition, as well as the latest edition of the "Illinois Supplement to the MUTCD", and IDOT "Quality Standard for Work Zone Traffic Control Devices", latest edition.
   f. All handicap accessibility items shall conform to the Illinois Accessibility Code (IAC), latest edition.
   g. General Notes and Specifications contained herein or elsewhere as a separate document.

If a conflict, contradiction, or discrepancy occurs between any of the above Specifications the more stringent requirement shall apply, unless directed otherwise by the applicable Jurisdictional Agency.

3. Contract Documents:
   a. The Engineer's Plans and Specifications shall be included as part of the Contract Documents.
   b. All Contractors shall carefully examine the Plans and Specifications, and other Contract Documents prepared for the work. They shall visit the site of the work and acquaint themselves with all local conditions, codes, and requirements affecting the contract. If awarded the contract, they shall not be allowed extra compensation by reason of any unforeseen difficulties or obstacles which the Contractor could have discovered or reasonably anticipated or inferred prior to bidding or start of construction.
   c. Should it appear that the work covered by the Plans and Specifications or other Contract Documents is not sufficiently detailed or explained, a Request For Information (RFI) Form shall be submitted to the Engineer for further explanations and drawings as may be necessary to clarify the point in question. The Contractor shall not proceed with the portion of the work in question to provide a job complete in every respect. Incidental items or accessories necessary to complete the work may not be specifically noted or shown but that are necessary to complete the project shall be considered incidental to the Contract. The Contractor is responsible for this result and to turn over the project in complete operating condition, irrespective of whether the contract documents cover every individual item in minute detail.
   d. If any additional soils data is needed to confirm the Contractor's opinions of the subsurface conditions, this shall be done at the Contractor's expense. The Contractor shall obtain the Owner's written authorization to access the site to conduct a supplemental soils investigation. Any bracing, sheeting, dewatering or special construction methods deemed necessary by the Contractor in order to install the proposed improvements shall be considered incidental to the Contract and no additional compensation will be allowed.
4. Should any apparent errors, omissions, discrepancies or conflicts be discovered on the Plans, Specifications, Quantities or other Contract Documents by the Contractor, whether prior to or after the award of the contract, the Engineer's attention shall be called to the same before work is begun thereon, so that proper clarification can be provided or resolved. If any work is done without contacting the Engineer, it shall be considered that the Contractor has proceeded at their own risk and expense.
5. Whenever the performance of work is indicated on the Plans, and no specific item is included in the Contract for payment, the work shall be considered incidental to the Contract and no additional compensation will be allowed. The Contractor shall provide all necessary labor, material, equipment, etc. necessary to perform all the work required for construction of the proposed improvements.
6. The base plan/drawing for the Engineering Plans (existing conditions, site topography, utilities, rights-of-way, etc.) was obtained from the topographic survey prepared by:

   Haeger Engineering, LLC
   100 East State Parkway
   Schaumburg, IL 60173
   (847) 394-6600
   12-073A
7. The Owner shall obtain the necessary approvals from the following Jurisdictional Agencies:
   a. Village of Wheeling
   b. Illinois Environmental Protection Agency (IEPA) - Water Division
8. The Contractor, unless otherwise agreed upon in writing with the Owner prior to the start of Construction, shall at his own expense, obtain all other approvals including permits, licenses, etc., as may be required for the execution of the work as well as provide all necessary notices, pay all fees required, post bonds, obtain all necessary insurance, and comply with all laws, ordinances, rules, and regulations relating to the work and to the preservation of public health and safety. The Contractor shall also provide all required insurance and/or bonds as may be required by the Jurisdictional Agencies. In addition, the Contractor shall meet all of the requirements of any permits as might be issued for this work by other Agencies, and shall pay for at their sole expense any surety, insurance or bonds as may be required by the Jurisdictional Agencies.
9. No work shall proceed until the appropriate permit or permits have been obtained for the item or items to be constructed. If any work does proceed without the appropriate approvals, it is being done entirely without the permission or consent of the Engineer. The Contractor and Party authorizing the work to proceed shall be assumed to be proceeding at their own risk and the Engineer shall not be held liable or responsible for any work being performed without a permit.
10. The Contractor shall indemnify and hold harmless the Owner, Engineer, Village/City, and other Jurisdictional Agencies as well as all of their respective officers, employees, agents, and Engineers from and against all losses, claims, demands, payments, suits, actions, recoveries, and judgment of every nature and description brought or recovered against them, by reason of any act, error or omission of said Contractor, their agents or employees in the execution of the work or in the guarding of it.
11. The construction shall be under the general inspection and observation of the designated individual authorized by the Village/City or other applicable Jurisdictional Agencies. The Village/City, Jurisdictional Agencies, Owner, and Engineer shall be notified at least two working days prior to the commencement of work.
12. In some instances, the existing utilities are shown on the Plans according to information obtained from the utility companies (atlas information) and/or surveys performed By Others. The Owner and Engineer do not guarantee the accuracy or completeness of this information. The Contractor shall be aware of potential conflicts with existing or other proposed utilities as indicated on the Plans or that become apparent as the result of field locates By Others. The Contractor shall make their own investigations as necessary to determine the existence, nature, and location of all utility lines and related appurtenances within the limits or adjacent to the proposed improvements. The Contractor shall investigate sufficiently far enough in advance to avoid all conflicts between existing utilities and proposed improvements and make the Engineer aware of any such conflicts. If the Contractor encounters a conflict between the proposed improvements and existing utility that was not located in advance by the Contractor, then the Contractor shall at no cost to Owner, relocate the proposed improvements and/or utility to avoid the conflict.
13. The Contractor will be required to cooperate with all utility companies involved in connection with the removal, temporary relocation, construction, reconstruction or abandonment by these companies of any and all services or facilities owned or operated by them within the limits or general vicinity of the proposed improvements. Further, at the direction of the Owner and Utility Companies the Contractor shall coordinate the location and install PVC sleeves as necessary under the proposed pavement, curbs, walks, etc. for utility companies to run their proposed utility lines.
14. Before doing any work which will damage, disturb or leave unsupported, or unprotected any utility lines or related appurtenances encountered, the Contractor shall notify the respective Owner thereof, who will make all arrangements for relocating, adjusting, bracing, or otherwise maintaining or abandoning service on lines that fall within the limits of the proposed construction without cost to the Contractor, including the removal of all cables, manhole covers and other related appurtenances which the Owner desires to salvage. After such arrangements have been made, the Contractor will proceed with the work as directed by the Engineer. All utility lines and related appurtenances which are abandoned shall be removed if necessary and legally disposed of legally off-site by the Contractor.
15. No extra compensation will be allowed by the Contractor for any expense incurred for complying with all of these aforementioned utility coordination and cooperation requirements, or because of delays, inconvenience or interruptions in their work resulting from the failure of any utility company to remove, relocate, construct, reconstruct or abandon their facilities or to provide temporary services. The responsibility for prompt removal, relocation, reconstruction or abandonment of their facilities by all utility companies involved, and the coordination of their own work with that of these companies to the end that work on this improvement is not delayed because of the necessary changes in the existing utilities, public or private, shall rest upon the Contractor.
16. Prior to commencing work, the Contractor is to field check and verify all critical locations, elevations, materials, sizes, dimensions, and conditions affecting the work, and notify the Engineer immediately if there are any suspected discrepancies. No work shall be performed until the suspected discrepancy has been resolved. The Contractor shall also call to the attention of the Engineer any errors or discrepancies which may be susceptible to be established in the lines and grades which are established by the Surveyor, and shall not proceed with the work until any lines and grades which are to believed to be in error have been verified or corrected by the Engineer.
17. The Contractor shall maintain positive drainage at all times during construction. Construction shall not block off-site drainage and the flow from any drainage ways, field tiles, storm sewers or similar draining off-site properties. All on-site existing field tiles, storm sewers, drainage ways or similar encountered or damaged during construction shall be maintained, restored to their original pre-construction condition or better, properly re-routed, and/or connected to the proposed stormwater drainage system. If this can't be accomplished then the field tile should be repaired or re-routed with new pipe of similar diameter to the original line and put back in service. The Contractor shall notify the Engineer if any such field tiles are encountered. Whenever during any construction activities any loose material is deposited in the flow line of gutters, ditches, drainage structures, etc. such that the natural flow of water is obstructed, this material shall be removed by the responsible party.
18. Prior to commencement of construction, on sites that will ultimately result in the disturbance of one (1) acre or more, the Contractor shall be responsible for obtaining a copy of the notice of coverage letter and the IEPA National Pollutant Discharge Elimination System (NPDES) General Permit ILR10 from the Owner. The Owner together along with the Contractor and/or other entities if so designated by the Owner, shall be responsible for ensuring that all the requirements of the General Permit and the Storm Water Pollution Prevention Plan (SWPPP) including but not limited to the installation, maintenance as well as the installation of any additional measures necessary that may be required, and inspections of the soil erosion and sediment control measures as well as completing all of the necessary applicable certifications, reports, logs, etc. Inspections are required to be performed at least once every seven (7) calendar days and within 24 hours of the end of a storm event of 0.5 inches of rain (or equivalent snowfall) or greater. The SWPPP and all the required paperwork shall be kept on-site and be organized and ready for viewing.
19. No construction activities, disturbance or fill shall occur within the limits of natural resources such as wetlands, floodplains, creeks, streams, ponds, lakes, basins, reservoirs, etc. or their respective buffers unless specifically specified on the Plans and further that the work has been permitted. The Contactor shall take sufficient precautions to protect these natural resources that are to remain, whether on-site or on adjacent property, to protect them from sediment, fuels, oils, bitumens, calcium chloride, or other harmful materials that may be a detriment. The Contractor shall conduct and schedule their Construction so as to avoid siltation, or other disturbance or impact to these natural resource areas. The Contractor shall not disturb or otherwise impact these designated natural resource areas, or areas that have been designated to be protected or as essential habitat for State or Federal listed endangered or threatened species, or Prairie or Savannah areas where the Owner has made commitments for protection of these areas. Also, if previously unidentified natural resource areas, prairies, savannahs, or areas or locations suspected of containing protected species are identified during construction, the Contractor shall not disturb them unless written permission to do so is granted by the Owner or applicable Jurisdictional Agency. If the Owner, Engineer, or applicable Jurisdictional Agency determines that additional measures are necessary to prevent or mitigate project effects on natural resource areas, prairies, savannahs, protected species, or essential habitat the Contractor shall cooperate in accomplishing these measures.
20. The Contractor shall confine their activities to within the project boundaries, work areas, or easements specified. No work shall be performed on adjacent private property or outside the project work areas without the written permission of each respective Owner. The Contractor shall be liable for damage caused to existing or newly installed improvements as well as any damage on adjacent property or areas outside designated work areas, provided damage us a result of Contractor action, or lack thereof.
21. The Contractor is responsible for returning all areas affected by equipment, materials and/or laborers to pre-construction condition or better. All existing utilities or improvements, including but not limited to pavements, curbs, drives, trees, and parkways damaged or removed during construction shall be promptly restored to their respective original pre-construction condition or better. The Contractor is also responsible for protecting all newly constructed work from damage until the project has been completed and has been approved and accepted by the Owner.
22. Clean-up and final restoration shall be performed immediately upon completion of each phase of the work or when directed to do so by the Owner, so that these areas will be restored as nearly as possible to their original pre-construction condition or better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, landscaping, fences, mailboxes, storm sewers, drain tiles, sanitary sewers, water mains, etc. It shall be the responsibility of the Contractor to remove from the site any and all materials and debris which results from their construction operations at no additional expense to the Owner.
23. All proposed grades shown on the Plans shall be considered to be finished grade surface elevations unless noted otherwise.
24. Construction staking/layout shall be provided by the Contractor and shall be included in the Contract Price unless otherwise agreed upon in writing with the Owner prior to the start of Construction.
25. All Construction means and methods, techniques, procedures, scheduling, sequencing, and job site safety is the sole responsibility of the Contractor.
26. The Contractor shall observe and comply with all the Occupational Safety and Health Administration (OSHA) standards, rules and regulations, as well as any other applicable local, state and federal safety requirements.
27. All trenching, shoring, bracing and construction work performed shall be in accordance with the Occupational Safety and Health Administration (OSHA) standards.
28. The Contractor shall take whatever steps necessary to protect the public from open trenches, excavations, and other site obstructions or hazards. No trenches, excavations or holes in the pavement or parkway are to be left open over a holiday, weekend, or after 3 p.m. on the working day prior to the weekend.
29. During construction the Contractor and their Sub-Contractors shall keep the premises clean by removing all rubbish, debris, waste material and other accumulations as necessary. The Contractor shall clean the premises to the satisfaction of the Village/City and Owner.
30. The Contractor shall have appropriate equipment and material including street sweepers and end loaders available on-site at all times when equipment or vehicles are using existing public or private roads and/or pavement. The Contractor shall immediately remove any sediment or debris including but not limited to dirt, mud, clay, cement, concrete, gravel, sand, stones, plant material, garbage, grease, etc. deposited on any roadway, street, walk, alley or other pavement by any equipment, vehicles or personnel associated with this project. This work shall be considered incidental to the Contract.
31. The Contractor shall at all times maintain proper dust control at the site and shall have a watering truck readily available during all working hours. The Contractor shall water the entire site whenever the site conditions become unhealthy due to blowing soil or dust. The site shall be watered as many times per day as necessary to maintain a healthy work site as determined by the Owner or Engineer. Water for non-emergency use shall not be obtained from any fire hydrant, unless the fire hydrant is metered with a proper backflow preventer in accordance with Village/City or Jurisdictional Agency requirements. The cost to furnish dust control shall be incidental to the cost of Construction.
32. Trees not marked for removal shall be protected as necessary by the Contractor. In the event that a tree is damaged by the Contractor during construction, the Contractor shall replace such tree with a tree or trees in accordance with Village/City requirements. If the Village/City does not have specific tree replacement requirements, the damaged existing or newly planted tree shall be replaced in accordance with the procedures outlined in Section 201 of the IDOT Standard Specifications. The Contractor shall ensure that they are familiar with the applicable tree preservation requirements and shall be held responsible for the replacement of all damaged trees not designed for removal, and any penalties associated with the unapproved removal of trees.
33. Where overhanging branches, limbs, or roots interfere with the required construction activities, said branches, limbs, or roots shall be trimmed or pruned as necessary in accordance with Section 201 of the IDOT Standard Specifications. This work shall be performed under the supervision of an approved arborist or landscape architect.
34. The Contractor is responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices, in accordance with the Plans, applicable IDOT Standard Specifications and the MUTCD Standards to inform and protect the public during all phases of construction. The Contractor shall provide all signage, barricades, devices, equipment, personnel, etc. necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. Roadways shall remain open to a degree satisfactory to the Owner or applicable Jurisdictional Agency which at their discretion may require the Contractor to do so for the protection of life and property. Emergency vehicle access along with access to fire hydrants shall be maintained at all times. Further, unless authorized by the Owner, all existing access points shall be maintained at all times by the Contractor.
35. Where noted in the Plans, the Contractor shall have Shop Drawings and any other required supporting documentation or calculations prepared and submitted for review and approval prior to any fabrication, placement, or construction. If structural elements such as retaining walls are required, the drawings and any required supporting design calculations must be prepared, and signed and sealed by an Illinois licensed Structural Engineer.
36. The Contractor is responsible for having a set of approved Plans and Specifications with the latest revision date on the job site at all times during the construction period.
37. The Contractor shall maintain a clean, legible, undamaged set of Field Marked Construction Plans. These Field Marked Construction Plans shall show the location of the actual installed location of all underground utilities including related appurtenances (sanitary, storm, water, service stubs, gas, telephone, electric, cable TV, etc.) giving particular attention to concealed elements that would be difficult to measure and record at a later date. Any contractor modifications, deviations, or alterations from the approved Plans should also be noted and shown on these Field Marked Construction Plans. These Field Marked Construction Plans shall be provided to the Owner/Engineer at the completion of construction.
38. All work that is performed that is not in conformity with the Plans, Specifications or other Contract Documents or that is defective shall likewise be removed and replaced, or otherwise corrected or remedied by and at the sole expense of the Contractor. Any unauthorized work or work performed beyond the limits or in excess of that shown on the Plans will not be measured or paid for.
39. All work performed under the Plans, Specifications or other Contract Documents shall be guaranteed against all defects in materials and workmanship of whatever nature by the Contractor and his surety for a minimum period of 12 months from the date of final acceptance of the work by the Village/City, other applicable Jurisdictional Agencies, and the Owner, unless otherwise agreed upon in writing with the Owner prior to the start of construction.
40. Before acceptance by the Owner and prior to final payment all work shall be inspected and approved by the Owner or designated representative. Final payment will be made after the Contractor's work has been approved and accepted or as required by the Contract Documents.
41. If required, the Owner shall have As-built or Record Drawings prepared and submitted to the Village/City and all other applicable Jurisdictional Agencies for approval after the completion of construction. These drawings shall be prepared in accordance with the Village/City and other applicable Jurisdictional Agency requirements. The As-built or Record Drawings must be prepared, and signed and sealed by a registered professional Engineer in Illinois.

DEMOLITION AND CLEARING

1. The Contractor shall perform all demolition, clearing, grubbing, and tree removal and protection work in accordance with all applicable Federal, State, County and Local requirements or as noted in the Plans.
2. Prior to the commencement of any demolition or clearing activities, the Owner or Contractor shall obtain all applicable permits to disconnect the existing utility services to each building proposed for demolition.
3. The Contractor shall coordinate all demolition work with the Village/City, utility companies, and other Jurisdictional Agencies, so as to ensure the protection of all existing sewer, water main, and other utilities, and

PAVING NOTES AND CONDITIONS

1. The Contractor shall coordinate construction activities with utility companies and the Village of Wheeling.
2. The Contractor shall be responsible for the protection of all underground utilities even though they may not be shown on the plans. Therefore, the Contractor shall have the respective utility companies field locate all of their facilities prior to beginning construction. any relocation or lowering of utilities shall be coordinated by the Contractor. Utilities that are damaged during construction shall be repaired or replaced by the Contractor at his own expense.
3. Ten (10) feet or three (3) meter transitions shall be used to match proposed curb and gutter and median items of work to existing curbs & gutters and medians in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed items of work specified.
4. Barricades: The Contractor shall provide and install two (2) weighted sandbags on each type I or type II barricade used- (1) weighted sand bag across each bottom rail.
5. All the work performed by ths Contractor shall be guaranteed for a period of twelve (12) months from the date of final acceptance by IDOT. This guarantee shall include all defects in materials and workmanship.
6. The Village of Wheeling, Illinois, Public Works Department must be notified at least two (2) working days prior to a request for inspection, commencement or resumption of any work.
7. The Contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures and all other measures that are necessary to protect the safety of the project area at all times.
8. All structures, inlets, pipes, swales and roads must be kept clean and free of dirt and debris at all times.
9. Adjustment of any sanitary sewer manhole frames shall include the installation of chimney seals in accordance with Village requirements. The cost of the chimney seal shall be considered incidental to the adjustment of the structure.
10. Any defective or non-bicycle safe frame & grates shall be brought to the Village's attention. All frames & grates to be replaced shall remain property of the Village and shall be stored in the right-of-way for pick up by the Village.
11. Any mailboxes that are in conflict with the proposed construction shall be removed and replaced in accordance with the Village standards. This work will be included in the contract. Mail service shall be maintained all the times. Contractor must be careful with the existing mailboxes. Any damaged mailboxes shall be replaced by the Contractor at no additional cost to the homeowner or the Village.
12. Existing driveway pavement, sidewalk, and curb and gutter to remain in place shall be saw cut full depth to provide a neat vertical face between the proposed and the existing structure. This work shall be considered incidental to each pay item.
13. Brick driveway pavement shall be constructed on 8-inches of compacted CA-6 Grade 8 crushed limestone base (2 lifts) topped with 1-inch of sand, price of which shall be included in the pay item brick driveway pavement. No extra compensation will be allowed.
14. Class D patches shall be constructed at locations determined by the engineer in the field. Any saw cuts associated with this pay item will be considered incidental and no extra compensation will be made. Any subbase removal beneath it will also be incidental.
15. Any roots encountered while removing the sidewalk or driveway aprons shall be saw-cut and disposed by the Contractor.
16. Tree root pruning shall be provided at each tree location, the price of which shall be included in the pay item tree root pruning. No extra compensation will be allowed.
17. Limits of curb & gutter and sidewalk removal are approximate and shall be marked in field by Engineer/Owner. Limits are subject to change.
18. All items which are damaged or disturbed as a result of work shall be replaced to existing condition or better at the contractor's expense.
19. Access to streets and private driveways shall be provided at all times except during actual construction adjacent thereto. Temporary ramps shall be constructed as necessary to provide such access utilizing crushed aggregate (cost incidental). It will be the Contractor's responsibility to notify the residents and businesses when access to their driveways will be temporarily closed due to curb and gutter, driveway or sidewalk replacement. The contractor shall distribute Village approved notices of anticipated closures. Every effort shall be made to accommodate access to these properties involving placement of pavement in stages across driveways and knocking on doors when driveways will be closed.
20. Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles on public streets is maintained at all times.
21. Restoration limits shall be limited to maximum of 2-ft immediately adjacent to edge of removed and replaced curb and gutter, sidewalk or driveway. Any additional disturbed areas will not be paid for.

CONC. CURB, SIDEWALK & PAVING NOTES

1. The finished hot-mix asphalt surface course shall be constructed to 1/4" above the edge of gutter flag.
2. The proposed curb and gutter shall be depressed at abutting sidewalks and across driveways as indicated on the plans.
3. Saw cutting required for removal of existing driveway pavement, sidewalk, curb and gutter and where the proposed pavement abuts existing pavement to remain in place (begin, end and limits of construction) shall be as specified in article 440 of the Standard Specifications. Provide a neat vertical face between the proposed and existing surfaces. Saw cutting shall be included in the pay item being removed. All saw cutting shall be full depth.
4. Curb & gutter and driveway removal and replacement work shall be limited to one side of the street in each direction at a time to minimize congestion. Full depth saw cut 1 feet minimum off of edge of pavement is required prior to C&G removal to allow space for proper compaction of pavement base course (incidental).
5. Construction operations involving temporary closing of driveways or roads shall not commence without at least three (3) working days prior notice to the Village by the Contractor. The Contractor will also be required to provide 48 hours notice to affected parties by distributing written notices and posting signs.
6. Construct temporary ramps to adjoining pavement or driveways as needed or directed by Engineer. These ramps must be minimum two car wide and shall be constructed for the entire width of pavement removal. These ramps shall be constructed using crushed limestone CA-6, Gr-8, virgin material or as directed by the Engineer. Proper temporary driveway entrance signs must be installed. The Contractor is responsible to maintain open access to all side streets, homes, industries, and businesses at all times. These temporary ramps shall be considered incidental to pavement removal and will not be paid for separately.
7. All the density tests will be performed by using cores.
8. Leveling binder shall be used around the structures in the roadway in variable thickness as necessary or as determined by the engineer.
9. Protective coating for all concrete surfaces shall be considered included in cost of respective pay items.
10. Proposed $\frac{3}{4}$" preformed expansion joint is required at concrete sidewalk, driveways and curb and gutter and shall be incidental to the curb and gutter removal and replacement.
11. In areas where the existing driveway, sidewalk or curb and gutter is to be removed and replaced, the removal and disposal of any additional material required to establish the proposed driveway, sidewalk or curb and gutter subgrade elevation shall be included in the respective removal pay items.
12. If any milled pavement is open to traffic, the maximum grade differential between passes of milling machine shall not exceed 1.5 inches.
13. If any soft or yielding materials are detected after excavation to subgrade, the Contractor will at the direction of the Geotechnical Engineer to remove the material and replace with porous granular embankment, subgrade.

DRAINAGE NOTES

1. Any saw cuts and excavation required to remove and install drainage structures or storm sewer pipe shall be considered incidental to the item being removed or installed.
2. Trench backfill used shall be CA-6 (grade-8) crushed limestone and shall be considered incidental to the item being installed. No crushed concrete will be allowed as trench backfill material. Trench backfill shall be provided up to the existing pavement grade to eliminate any voids created and to provide temporary roadway access. The backfill material shall be placed in 8 inch lifts, loose measurement, and compacted by mechanical means to the satisfaction of the engineer.
3. Contractor must imply careful method to salvage all existing pipes. If any of the existing pipes are damaged during construction; the Contractor shall replace the damaged pipe at no extra cost to the Village. No extra compensation will be allowed.
4. Inlet and pipe protection must be installed in all open grate structures that recieve drainage from disturbed areas prior to commencing the work and shall be maintained regularly throughout the length of the project.
5. Contractor shall grade and construct improvements to provide positive drainage. Ponding water will not be permitted.
6. All Frame & Lid castings located within pavement which required adjusting to finished grade shall be backfilled with Class SI Concrete and allowed to cure for 72 hours prior to placement of surface course. Class PP Concrete shall be utilitzed if surface course is to be placed in less than 72 hours. HMA materials will not be allowed as backfill around adjusted frames. This work shall be incidental to drainage & utility structures to be adjusted.
7. All storm drainage structures in curbs shall have modified drainage structure and pipe underdrain (special) per Village of Wheeling details.

TRAFFIC / CONSTRUCTION STAGING

The Contractor shall submit a pre-planned sequence of work at the pre-construction meeting for review and approval. The Contractor's superintendent and the Resident Engineer will be required to work together with the affected residents in planning their construction schedule so as to minimize the inconvenience and maintain a reasonable level of construction efficiency. The Resident Engineer and/or the Village reserve the right to restrict work on a pavement segment if construction operations on the previous segment are unacceptable.
The sequence of traffic / construction staging is recommended in the order listed below:
Stage 1 - Utility & Drainage structure improvements
Stage 2 - Curb and gutter, driveway and sidewalk removal and replacement where identified
Stage 3 - Pavement removal (see typical section for depth of removal)
Stage 4 - Pavement replacement - Resurfacing Areas
- Repair aggregate sub-base and/or subgrade in identified deteriorated areas
- Proof-roll compacted aggregate base course areas
- Install hot-mix asphalt binder course, in one 3" lift - install hot-mix asphalt surface course
Stage 5 - Install pavement markings and restoration as required

DRIVEWAY CLOSINGS:

It will be the Contractor's responsibility to notify residents and the Village two (2) days in advance when access to the residents' driveways will be temporarily closed due to the curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to these properties (i.e. knock on doors when driveway is about to be closed).

DEBRIS REMOVAL:

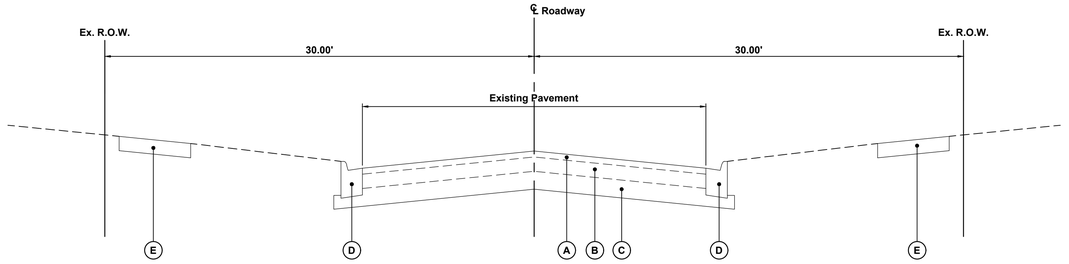
Materials resulting from the removal of pavement, driveways, curb and gutter, Hot-Mix Asphalt pavement and subgrade, etc. shall be removed at the end of each day to a village approved site. In the judgment of the Village, should it be necessary to remove such materials, the Village will have the material removed and the Contractor shall be billed (charged) accordingly.

WATER SUPPLY:

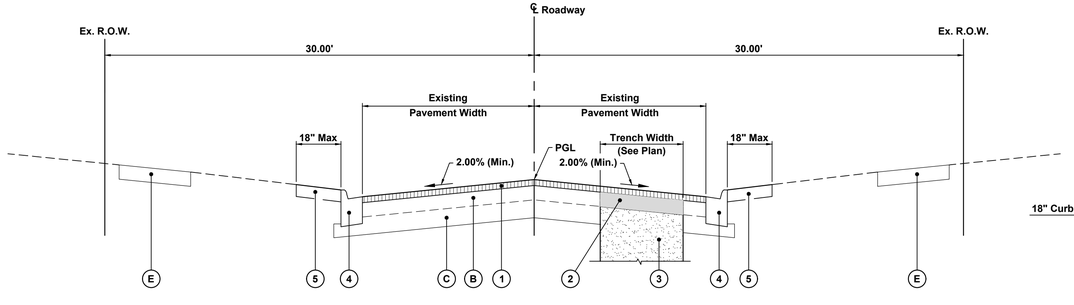
The Contractor can obtain municipal water in bulk, at NO CHARGE, as long as there is not a "watering ban" in effect. Prior to obtaining any water, an account with the Finance Department must be set up for documentation on water usage. The indiscriminate use of fire hydrants is strictly prohibited. Water for construction shall be metered or otherwise accounted for on a daily log maintained with the Public Works Department. The Contractor shall provide the water truck and driver required to obtain and transport this water. The Village reserves the right to restrict or refuse the use of Village water if deemed necessary.

ADDITIONAL SPECIFICATIONS / INCIDENTALS NOTES:

1. Monolithically poured curb for the 'MODIFIED CURB DRAINAGE STRUCTURE TO BE ADJUSTED' shall be incidental to the cost of that pay item. No extra compensation will be paid for lineal feet of curb and gutter.
2. 'REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL' shall include the removal of all uncontaminated material required for removal in order to achieve the proposed design elevations, as well as any material required for undercut removals as directed by the Geotechnical Engineer.
3. Removal and Disposal of 'CONTAMINATED WASTE' shall include the storage, removal, and proper disposal of any materials determined to be 'contaminated' in accordance with IEPA standards.
4. All existing mailboxes are to remain in service at all times. Any necessary removals and/or reinstallations of mailboxes shall be done at the expense of the Contractor and are incidental to the Contract.
5. Whenever the performance of work is indicated on the plan, and no pay item is included in the contract for payment, the work shall be considered incidental to the contract and no additional compensation will be allowed.



EXISTING TYPICAL CROSS SECTION
SCALE: 1" = 5' HORZ, 1"= 2' VERT

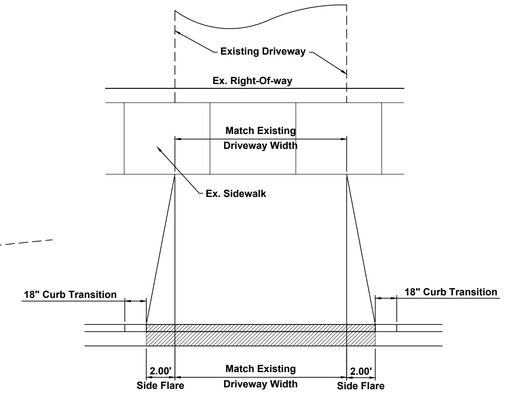


PROPOSED TYPICAL CROSS SECTION
SCALE: 1" = 5' HORZ, 1"= 2' VERT

NOTE:
Maximum Payable Trench Width
Depth ≤ 5' = O.D. of Pipe + 18"
Depth > 5' = O.D. of Pipe + 36"

LEGEND

- (A) Existing Bituminous Surface Course
- (B) Existing Bituminous Binder Course
- (C) Existing Aggregate Base Course
- (D) Existing Curb And Gutter
- (E) Existing Concrete Sidewalk
- (1) Grind Down Existing 1-3/4" Surface Course And Replace with 2" Hot-Mix Asphalt Surface Course, Mix "C", N50
- (2) 5" Hot-Mix Asphalt Binder Course, IL-9.0, N50
- (3) Compacted Granular Trench Backfill. CA-6 Grade 8
- (4) Existing Concrete Curb And Gutter To Be Removed And Replace With Type M-3.12, See Plan For Exact Locations. Additional curb may be marked for removal as determined by Village staff.
- (5) 4" Topsoil Placement And Sod (Parkway Restoration)



PROPOSED DRIVEWAY APRON DETAIL
N.T.S.

NOTE:
1. Village will mark all driveways for saw cutting and removal.

2. Bituminous Driveways: Match Existing Thickness to a Maximum of 5" HMA Surface For Entire Thickness.

3. Concrete Driveways: High Early Strength Concrete Must Be Used At Driveways.

No.	Date	Revision
–	04-01-2020	Village Review

HAEGER ENGINEERING
consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.4600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184.003152
www.haegerengineering.com

GENERAL NOTES, SPECIFICATIONS, AND TYPICAL SECTIONS

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C2.1 / C9

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Plot Date: Apr 03, 2020 - 12:54pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Title Sheet And Notes.dwg

SUMMARY OF QUANTITIES

CODE NO.	CODED PAY ITEMS	UNIT	TOTAL QUANTITY		
20200100	EARTH EXCAVATION	CU YD	2,575		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	200		
25200110	SODDING, SALT TOLERANT	SQ YD	200		
28000510	INLET FILTERS	EACH	60		
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	11		
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	1,125		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	GAL	3,251		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 5 INCH	TON	315		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2 INCH	TON	728		
42300100	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 5 INCH	SQ YD	76		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	172		
44000100	PAVEMENT REMOVAL OVER TRENCH, FULL DEPTH	SQ YD	1,125		
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1-3/4"	SQ YD	6,502		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	91		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	869		
44000600	SIDEWALK REMOVAL	SQ FT	172		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	9		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12" w/ O'RING JOINTS	FOOT	711		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15" w/ O'RING JOINTS	FOOT	212		
550A0090	STORM SEWERS, CLASS A, TYPE 1 18" w/ O'RING JOINTS	FOOT	242		
550A0120	STORM SEWERS, CLASS A, TYPE 1 24" w/ O'RING JOINTS	FOOT	527		
550A0140	STORM SEWERS, CLASS A, TYPE 1 30" w/ O'RING JOINTS	FOOT	638		
550A0180	STORM SEWERS, CLASS A, TYPE 1 42" w/ O'RING JOINTS	FOOT	164		
55100500	STORM SEWER REMOVAL 12"	FOOT	490		
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER	EACH	7		
60203805	CATCH BASINS, TYPE A, 5'-DIAMETER	EACH	4		
60218400	MANHOLES, TYPE A, 4'-DIAMETER	EACH	14		
60221100	MANHOLES, TYPE A, 5'-DIAMETER	EACH	6		
60223800	MANHOLES, TYPE A, 6'-DIAMETER	EACH	4		
60224457	MANHOLES, TYPE A, 8'-DIAMETER	EACH	1		
60238800	INLETS, TYPE A	EACH	43		
60300105	FRAMES AND LIDS TO BE ADJUSTED	EACH	5		
60611811	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED)	FOOT	829		
78001130	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	263		
78001180	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	48		
X0325352	PIPE SUPPORT	EACH	1		
Z0004518	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5"	SQ YD	14		
	RELOCATE / RELAY UTILITY SERVICES	EACH	48		
	CONCRETE WASHOUT FACILITY	EACH	1		

SOUTH / EAST WAYNE PLACE DRAINAGE STRUCTURES

STRUCTURE NAME	TYPE	DIAMETER	FRAME & GRATE/LID	STATION	OFFSET	RIM	INVERT	INVERT	INVERT	INVERT
CB C1	Catch Basin	48"	EJ 1020M1 or Neenah R-2015	44+45.76	12.37' R	644.08	641.38 NW	641.38 NE		
MH C2	Manhole	60"	EJ 1020A or Neenah R-1713	45+41.03	1.43' R	644.82	640.97 SW	641.22 NW	641.62 NE	641.67 SE
CB C3	Catch Basin	48"	EJ 1020M1 or Neenah R-2015	45+55.22	12.17' R	644.15	642.05 N	642.05 S	642.15 NW	
MH A4	Manhole	60"	EJ 1020A or Neenah R-1713	49+23.84	6.07' LT	646.56	639.62 W	639.62 E	641.12 S	641.12 N
INL A4-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+23.83	12.11' RT	646.29	641.80 N			
INL A4-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+23.87	12.22' LT	646.29	641.20 S			
CB A5	Catchbasin	60"	EJ 1020A or Neenah R-1713	49+93.38	6.18' LT	646.37	639.69 W	639.69 E	641.19 N	641.19 S
INL A5-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+93.39	12.09' RT	646.25	641.80 N			
INL A5-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+93.42	12.18' LT	646.07	641.40 S			
MH A6	Manhole	60"	EJ 1020A or Neenah R-1713	50+71.27	6.21' LT	646.12	639.77 W	639.77 E	641.27 NE	641.27 S
INL A6-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	50+67.07	12.15' RT	645.91	641.80 N			
INL A6-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	50+75.36	12.22' LT	645.85	641.35 SW			
CB A7	Catchbasin	60"	EJ 1020A or Neenah R-1713	51+49.78	6.18' LT	645.98	639.85 W	639.85 E	641.35 N	641.35 S
INL A7-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	51+50.12	12.24' RT	645.74	641.80 N			
INL A7-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	51+49.84	12.18' LT	645.71	641.40 S			
MH A8	Manhole	60"	EJ 1020A or Neenah R-1713	51+71.65	6.17' LT	645.98	639.87 W	639.87 E	642.36 N	
MH A9	Manhole	60"	EJ 1020A or Neenah R-1713	52+57.65	6.32' LT	645.56	639.96 W	639.96 E	641.00 N	641.00 S
INL A9-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	52+57.65	12.05' RT	645.30	641.15 N			
INL A9-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	52+57.68	12.34' LT	645.29	641.05 S			
MH A10	Manhole	60"	EJ 1020A or Neenah R-1713	53+05.18	5.49' LT	645.48	640.03 W	640.03 E		
CB A11	Catchbasin	60"	EJ 1020A or Neenah R-1713	53+45.51	5.54' LT	645.31	640.08 W	641.08 NW	641.08 SE	640.08 E
INL A11-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	53+45.84	12.16' RT	645.32	641.20 NW			
INL A11-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	53+45.56	12.02' LT	645.05	641.15 SE			
MH A12	Manhole	48"	EJ 1020A or Neenah R-1713	53+72.02	7.75' RT	645.33	640.12 W	640.12 NE		
MH A13	Manhole	48"	EJ 1020A or Neenah R-1713	54+03.14	6.18' RT	645.16	640.18 SW	641.18 NW	641.18 SE	640.18 NE
INL A13-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	54+03.43	11.37' RT	645.00	641.25 NW			
INL A13-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	54+01.99	12.40' LT	644.86	641.35 SE			
MH A14	Manhole	48"	EJ 1020A or Neenah R-1713	54+54.97	7.29' RT	645.01	640.25 SW	640.25 N		
CB A15	Catchbasin	48"	EJ 1020A or Neenah R-1713	55+08.97	6.64' RT	644.97	640.33 S	640.83 W	640.83 E	640.33 N
INL A15-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+09.10	11.67' RT	644.69	640.90 W			
INL A15-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+09.23	12.43' LT	644.63	641.00 E			
MH A16	Manhole	48"	EJ 1020A or Neenah R-1713	55+69.87	7.21' RT	644.76	640.52 S	640.52 N	641.02 W	641.02 E
INL A16-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+69.97	12.38' RT	644.51	641.10 W			
INL A16-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+69.95	12.10' LT	644.60	641.20 E			
MH A17	Manhole	48"	EJ 1020A or Neenah R-1713	56+28.43	7.20' RT	644.64	640.64 S	640.64 S	641.14 E	
INL A17-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	56+28.66	12.46' RT	644.34	641.30 W			
CB A18	Catchbasin	48"	EJ 1020A or Neenah R-1713	56+68.81	7.19' RT	644.54	640.73 S	641.23 W	641.23 E	640.73 N
INL A18-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	56+69.59	12.36' RT	644.32	641.30 W			
CB A18-2	Catchbasin	48"	EJ 1020M1 or Neenah R-2015	56+72.74	17.26' LT	644.27	641.50 E	641.50 S		
INL A18-3	Inlet	24"	EJ 1020M1 or Neenah R-2015	56+35.77	19.46' LT	644.43	641.75 N			
MH A19	Manhole	48"	EJ 1020A or Neenah R-1713	57+38.62	7.26' RT	644.18	641.00 S	641.25 E	641.25 W	
INL A19-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	57+38.78	12.27' RT	643.96	641.30 W			
INL A19-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	57+38.77	12.48' LT	644.09	641.35 E			

MERLE LANE DRAINAGE STRUCTURES

STRUCTURE NAME	TYPE	DIAMETER	FRAME & GRATE/LID	STATION	OFFSET	RIM	INVERT	INVERT	INVERT	INVERT
MH A1-1	Manhole	96"	EJ 1020M1 or Neenah R-2015	9+83.62	11.93' RT	647.13+/-	639.30 W	639.30 E	639.30 NW	
MH A1-2	Manhole	72"	EJ 1020M1 or Neenah R-2015	9+83.11	11.92' LT	647.13+/-	639.62 W	639.62 E		
MH A1	Manhole	72"	EJ 1020A or Neenah R-1713	9+92.01	7.01' RT	647.18	639.32 SE	639.32 N		
MH A2	Manhole	72"	EJ 1020A or Neenah R-1713	10+99.04	4.63' RT	647.01	639.48 S	639.48 N		
MH A3	Manhole	72"	EJ 1020A or Neenah R-1713	11+45.77	4.30' RT	647.07	639.55 S	639.55 E	640.05 N	
CB B1	Catch Basin	60"	EJ 1020A or Neenah R-1713	12+06.43	7.24' RT	646.84	640.20 S	640.20 N	641.70 W	641.70 NE
INL B1-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+10.04	12.26' RT	646.58	641.80 SW			
INL B1-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+10.12	12.36' LT	646.58	642.34 E			
MH B2	Manhole	48"	EJ 1020A or Neenah R-1713	12+89.69	4.00' RT	646.66	640.40 S	640.40 NE	641.90 W	641.90 E
INL B2-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+92.55	11.96' RT	646.38	642.00 W			
INL B2-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+92.18	12.31' LT	646.55	642.40 E			
MH B3	Manhole	48"	EJ 1020A or Neenah R-1713	13+38.13	6.62' RT	646.36	640.60 SW	640.60 NE	641.60 NW	641.60 E
INL B3-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	13+39.25	11.78' RT	646.13	641.70 W			
INL B3-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	13+39.33	12.63' LT	646.17	641.85 SE			
MH B4	Manhole	48"	EJ 1020A or Neenah R-1713	13+70.88	6.11' RT	646.31	640.70 SW	640.70 NE		
CB B5	Catch Basin	48"	EJ 1020A or Neenah R-1713	14+22.72	3.65' RT	646.22	640.85 SW	640.85 NE	641.85 NW	641.85 SE
INL B5-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+23.34	11.22' RT	645.85	641.95 NW			
INL B5-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+24.83	8.73' LT	645.83	642.20 SE			
MH B6	Manhole	48"	EJ 1020A or Neenah R-1713	14+87.25	7.42' RT	645.90	641.05 SW	641.05 E	642.05 N	642.05 SE
INL B6-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+89.45	13.50' RT	645.61	642.15 NW			
INL B6-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+91.31	10.92' LT	645.54	642.60 S			
MH B7	Manhole	48"	EJ 1020A or Neenah R-1713	15+77.60	6.00' RT	645.67	641.30 W	641.30 E	642.30 N	642.30 SE
INL B7-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	15+83.98	12.45' RT	645.36	642.45 NW			
INL B7-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	15+83.14	11.85' LT	645.40	642.70 S			
CB B8	Catch Basin	48"	EJ 1020A or Neenah R-1713	16+53.03	6.57' RT	645.38	641.50 W	641.50 E	642.00 N	642.00 S
INL B8-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	16+54.85	11.58' RT	645.17	642.05 NE			
INL B8-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	16+54.11	12.74' LT	645.17	642.15 S			
MH B9	Manhole	48"	EJ 1020A or Neenah R-1713	17+34.55	6.89' RT	645.18	641.70 W	641.70 E	641.95 N	641.95 SE
INL B9-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	17+39.52	11.90' RT	644.93	642.00 NW			
INL B9-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	17+37.12	12.62' LT	644.90	642.10 S			
MH B10	Manhole	48"	EJ 1020A or Neenah R-1713	18+17.87	7.11' RT	644.96	641.93 W	641.93 E	642.00 S	642.00 N
INL B10-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	18+18.10	12.11' RT	644.72	642.05 N			
INL B10-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	18+18.02	12.20' LT	644.52	642.10 S			
MH B11	Manhole	48"	EJ 1020A or Neenah R-1713	18+77.27	7.01' RT	644.81	642.08 W	642.08 S	642.08 N	
INL B11-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	18+77.63	12.32' RT	644.45	642.10 N			
INL B11-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	18+77.14	12.19' LT	644.37	642.15 S			

No. 1 — Village Review — Revision — 04-01-2020 — Date

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SUMMARY OF QUANTITIES
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet C2.2 / C9

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Plot Date: Apr 03, 2020 - 12:54pm Plotted By: kim-l
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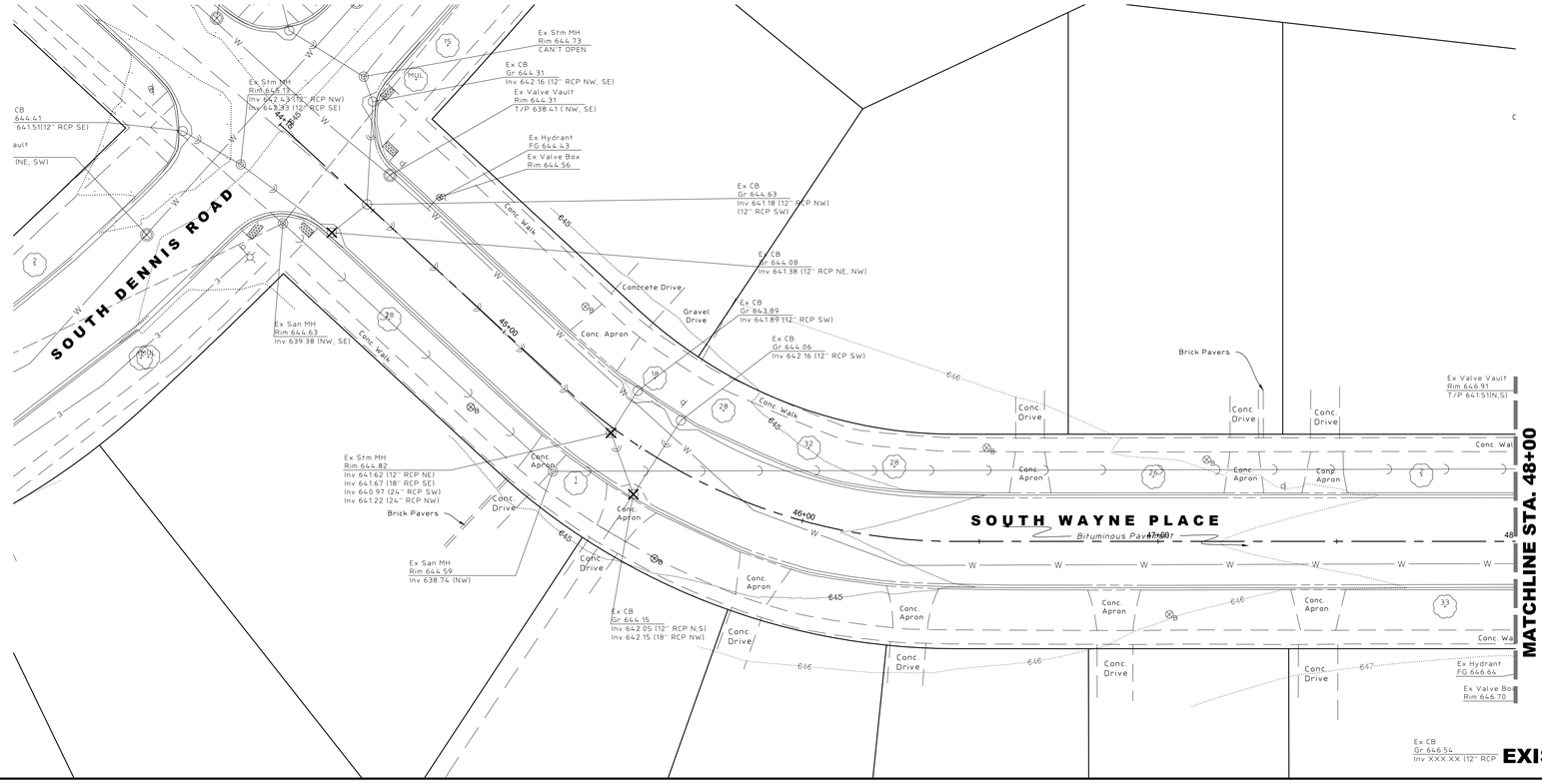


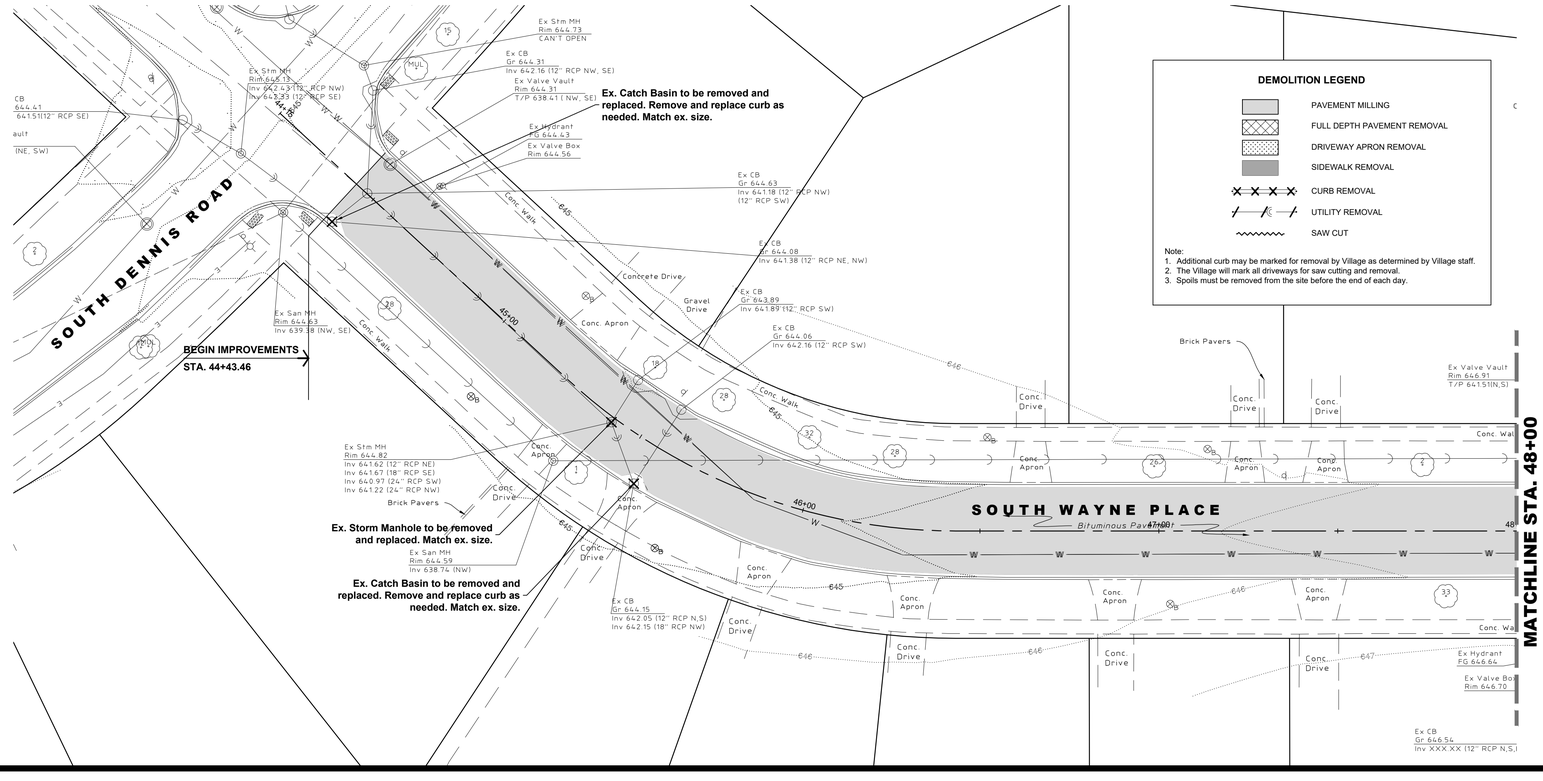
EXISTING CONDITIONS PLAN

NORTH

10 0 20

Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review



DEMOLITION PLAN

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EXISTING CONDITIONS AND DEMOLITION PLAN

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C3.0 / C9

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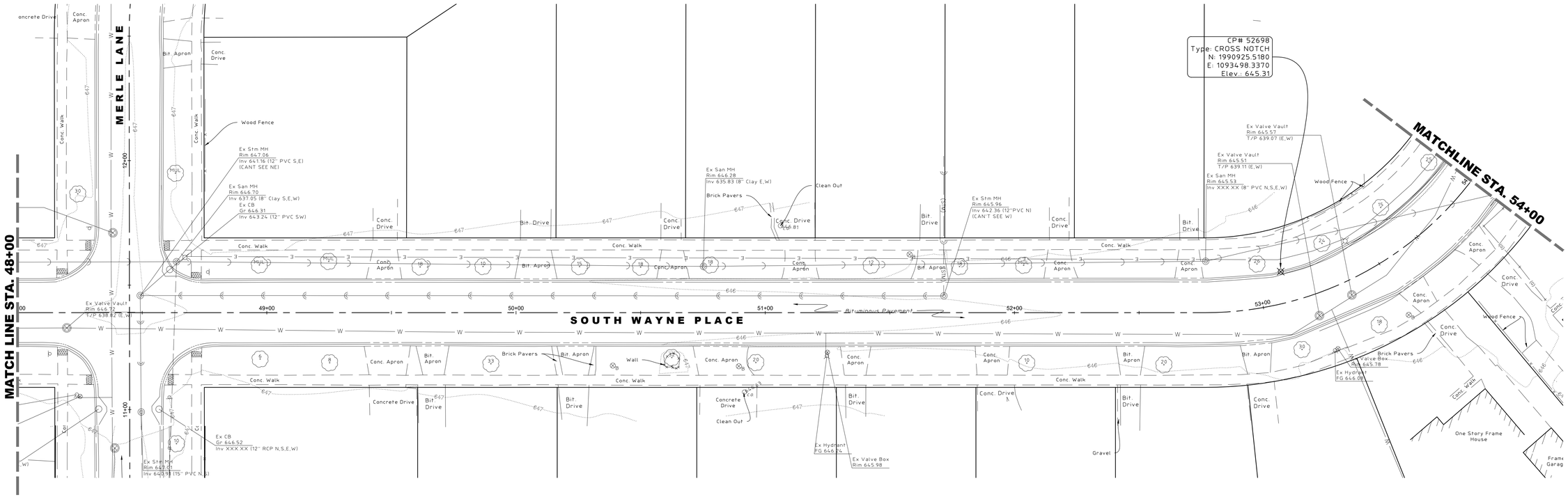

EXISTING CONDITIONS PLAN

DEMOLITION LEGEND

- PAVEMENT MILLING
- FULL DEPTH PAVEMENT REMOVAL
- DRIVEWAY APRON REMOVAL
- SIDEWALK REMOVAL
- CURB REMOVAL
- UTILITY REMOVAL
- SAW CUT

Note:
1. Additional curb may be marked for removal by Village as determined by Village staff.
2. The Village will mark all driveways for saw cutting and removal.
3. Spoils must be removed from the site before the end of each day.

DEMOLITION PLAN

NORTH

Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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EXISTING CONDITIONS AND DEMOLITION PLAN

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C3.1 / C9

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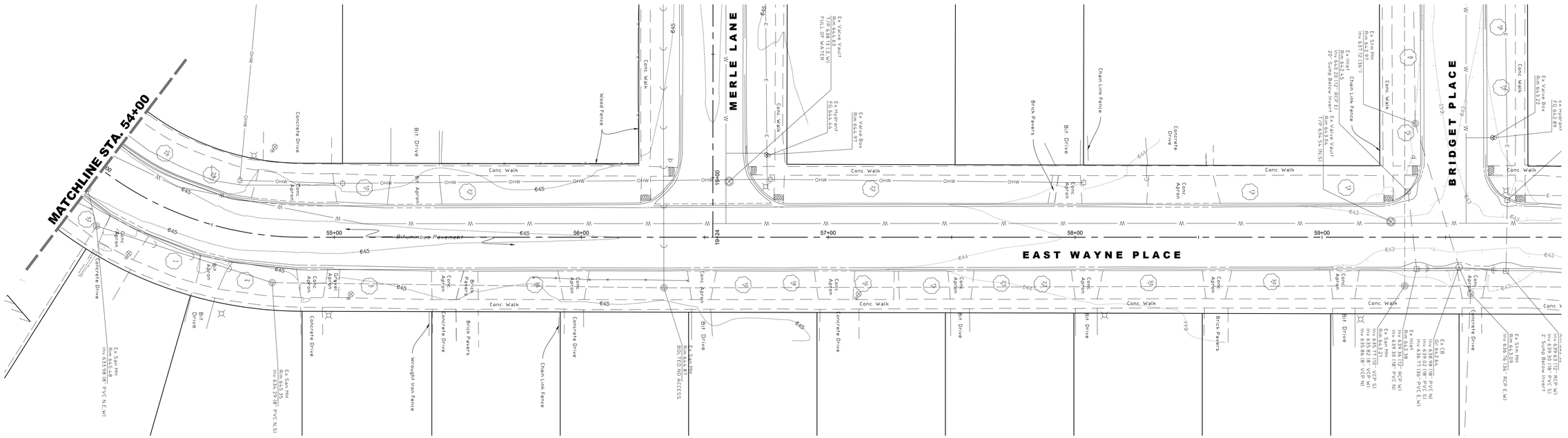
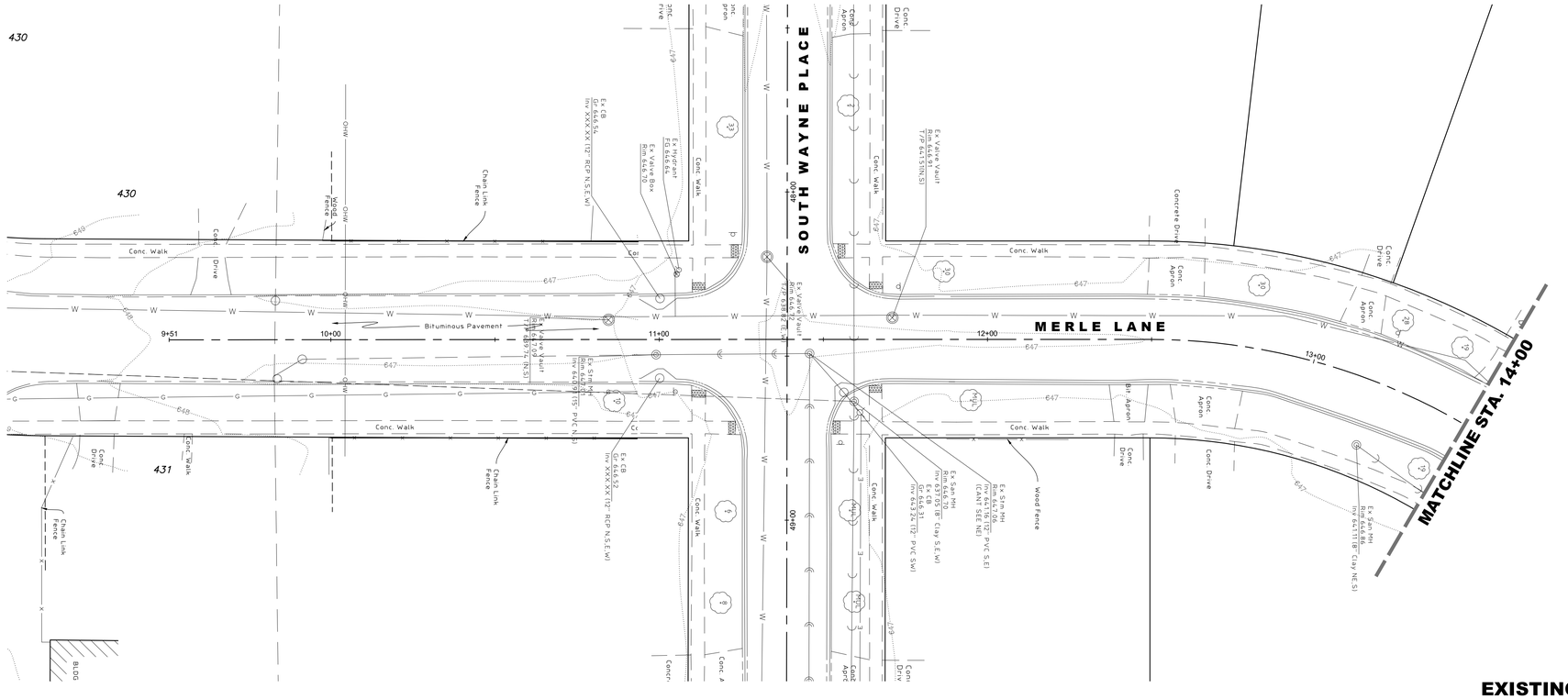
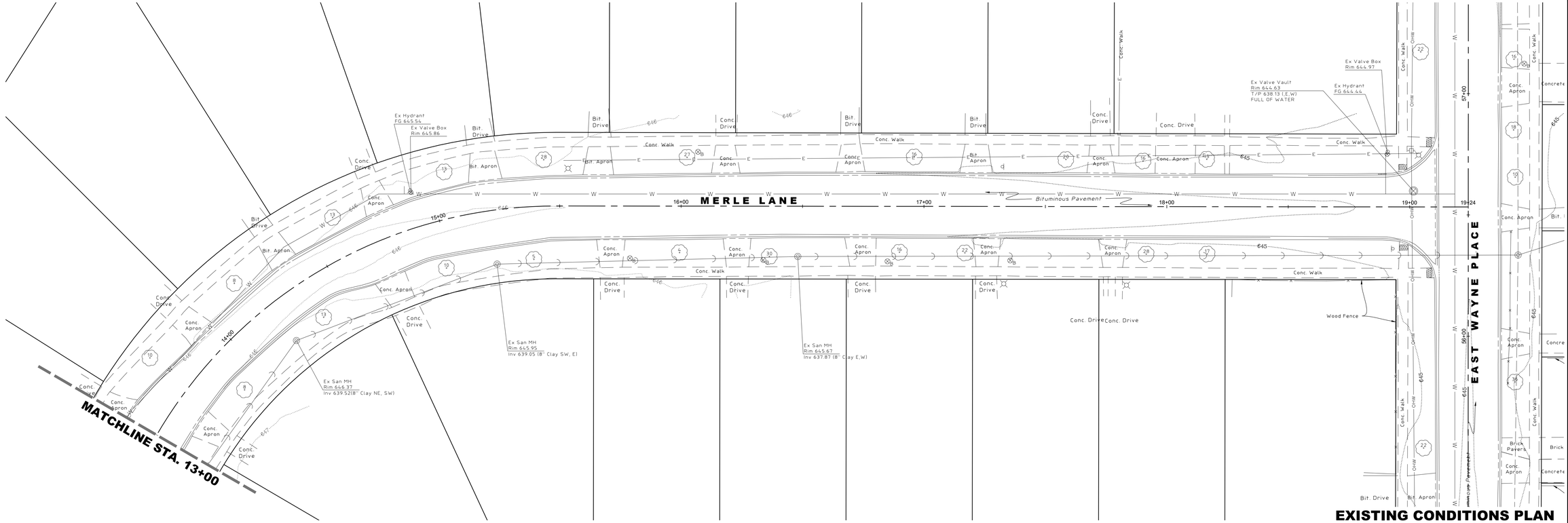

MATCHLINE STA. 54+00
EAST WAYNE PLACE
MERLE LANE
BRIDGET PLACE
Bituminous Pavement
Conc. Walk
Bit Drive
Bit Apron
Conc Apron
Concrete Drive
Brick Pavers
Wood Fence
Chain Link Fence
Wrought Iron Fence
Ex Valve Vault Rim 644.63 Inv 638.13 (12" DI E) FULL OF WATER
Ex Hydrant Rim 644.44
Ex Valve Box Rim 644.97
Ex Inlet Rim 642.52 Inv 640.20 S 12" RCP E 20" Sump Below Invert
Ex Valve Vault Rim 643.90 Inv 634.54 (N,S)
Ex Sign
Ex Sign Pole
Ex Sign
Ex Sign
Ex Sign


SOUTH WAYNE PLACE
MERLE LANE
MATCHLINE STA. 14+00
9+51
10+00
11+00
12+00
13+00
00+00
00+48
Bituminous Pavement
Conc. Walk
Conc. Drive
Conc. Apron
Bit. Apron
Concrete Drive
Chain Link Fence
Wood Fence
OHW
Ex CB Gr 646.54 Inv XXX XX 12" RCP N.S.E.W)
Ex Hydrant Rim 646.80
Ex Valve Box Rim 646.70
Ex Valve Vault Rim 646.91 12" 641.15(N.S)
Ex Valve Vault Rim 646.88 8" 641.09(N.S)
Ex Valve Vault Rim 646.82 8" 641.19(E.W)
Ex Sign
Ex Sign
Ex Sign



EXISTING CONDITIONS PLAN

DEMOLITION PLAN

NORTH

Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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EXISTING CONDITIONS AND DEMOLITION PLAN

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C3.4 / C9

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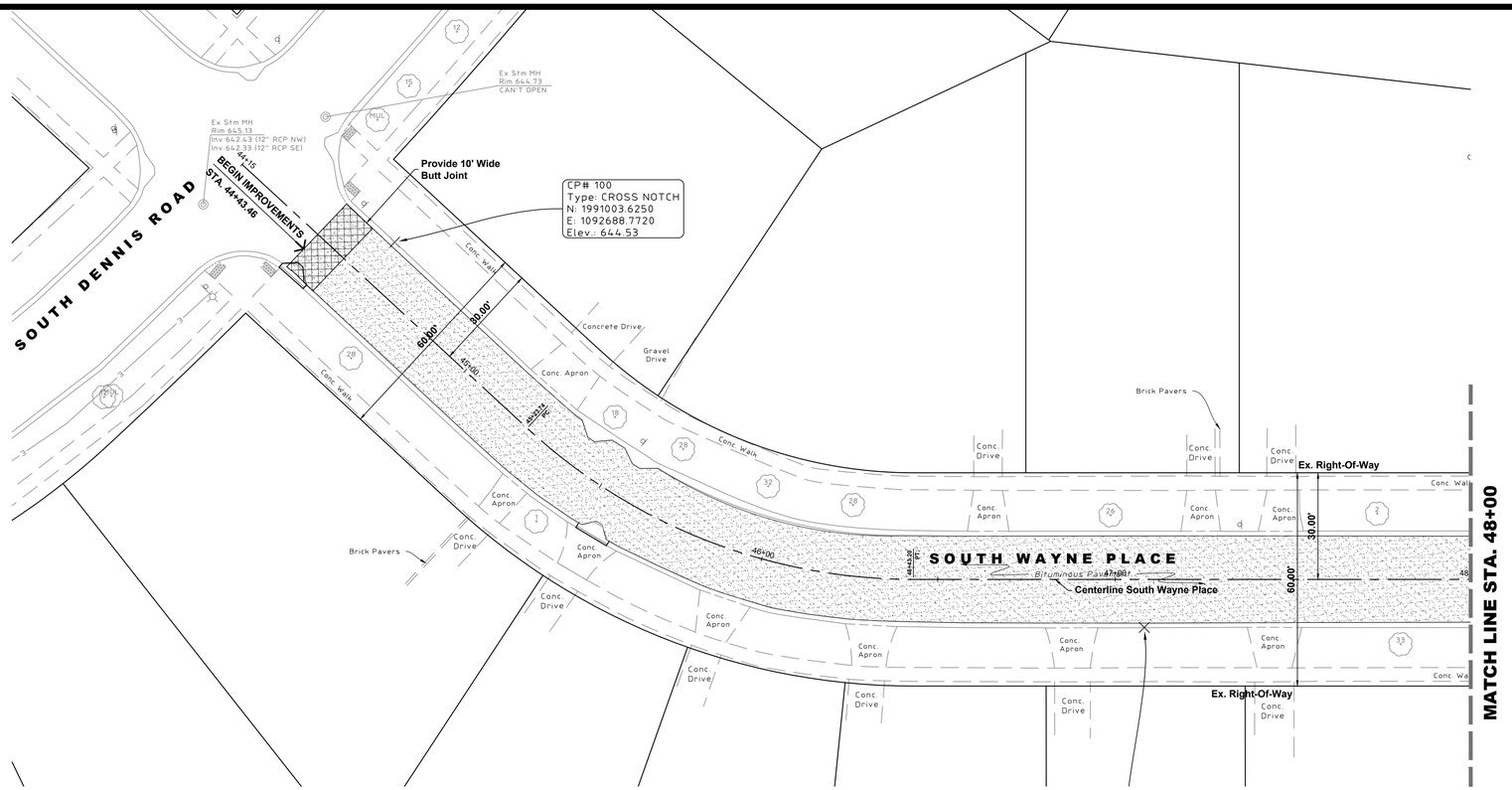

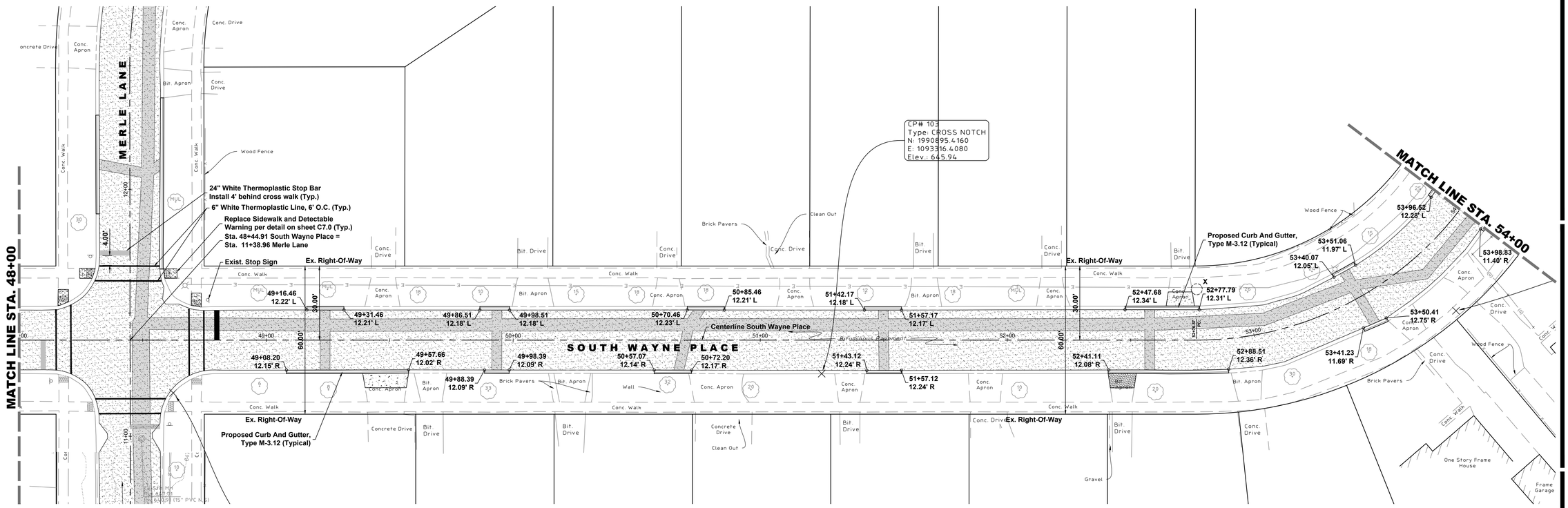

PAVING LEGEND

BITUMINOUS PAVEMENT - FULL DEPTH
- 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'C', N50
- 5" Hot-Mix Asphalt (HMA) Binder Course, IL-19.0, N50
- 6" Aggregate Base Course, Type "B", CA-6, Crushed Aggregate (CA-6 Gr 8, Crushed Limestone, Virgin)

BITUMINOUS PAVEMENT OVERLAY
- 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'C', N50

CONCRETE DRIVEWAY APRON
- 5" Portland Cement Concrete (Class PV)
- 4" Aggregate Base Course (CA-6, Gr 8 or Gr 9, Virgin)

ASPHALT DRIVEWAY APRON
- 5" Compacted Asphalt, in 2 Lifts
- 3" Compacted Crushed Limestone (CA-6, Gr 8 or Gr 9, Virgin)

CONCRETE SIDEWALK - STANDARD
- 5" Portland Cement Concrete (Class SI)
- 4" Aggregate Base Course, CA-6, Crushed

NOTES:

TRAFFIC CONTROL:
- Moving traffic control must be utilized. Storm crossings will need to be completed one half at a time to maintain access to residents. One lane of traffic in work areas shall be open at all times. Flaggers will be needed.

DRIVEWAY APRON REPLACEMENT:
- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. The Village will mark all driveways for saw cutting and removal. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 1/2 the distance between the back of curb and sidewalk and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 1/2 the distance between the back of curb and sidewalk.

STRIPING REPLACEMENT:
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:
- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

QUANTITY ASSUMPTIONS:
- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.

NORTH
10 0 20
Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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GEOMETRY AND PAVING PLAN - SOUTH WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C4.0 / C9

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Plot Date: Apr 03, 2020 - 12:58pm Plotted By: kim-l
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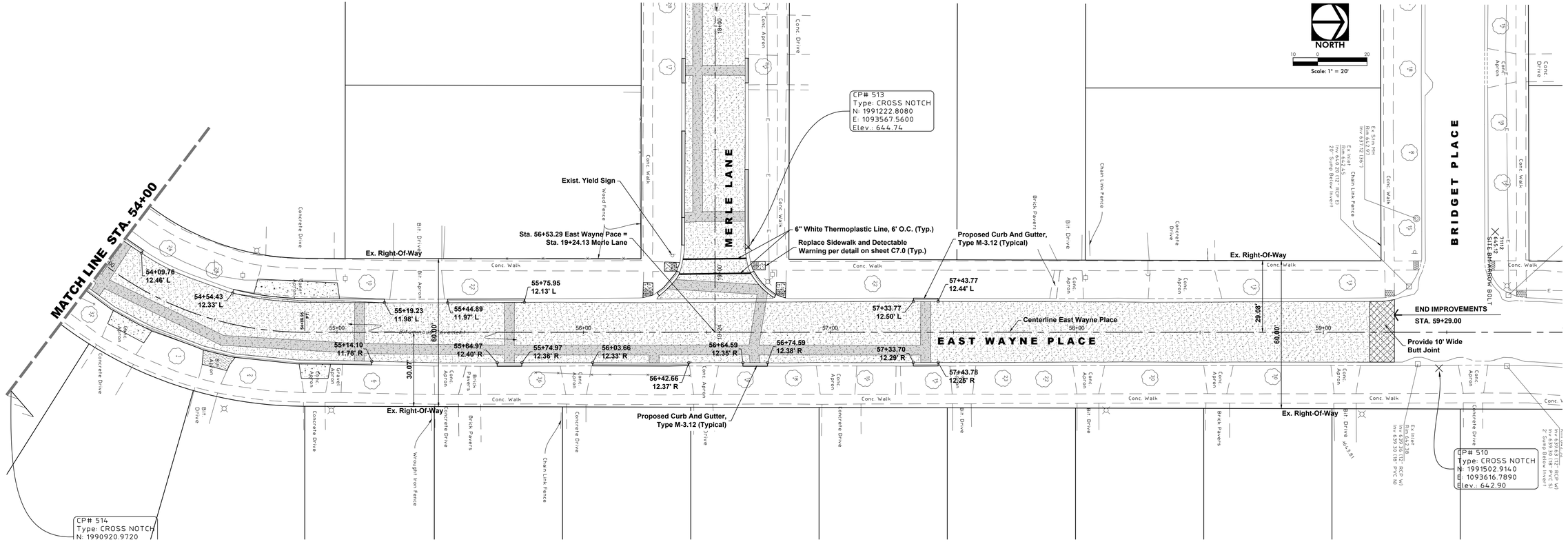

PAVING LEGEND

BITUMINOUS PAVEMENT - FULL DEPTH
- 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'C', N50
- 5" Hot-Mix Asphalt (HMA) Binder Course, IL-19.0, N50
- 6" Aggregate Base Course, Type 'B', CA-6, Crushed Aggregate (CA-6 Gr 8, Crushed Limestone, Virgin)

BITUMINOUS PAVEMENT OVERLAY
- 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'C', N50

CONCRETE DRIVEWAY APRON
- 5" Portland Cement Concrete (Class PV)
- 4" Aggregate Base Course (CA-6, Gr 8 or Gr 9, Virgin)

ASPHALT DRIVEWAY APRON
- 5" Compacted Asphalt, in 2 Lifts
- 3" Compacted Crushed Limestone (CA-6, Gr 8 or Gr 9, Virgin)

CONCRETE SIDEWALK - STANDARD
- 5" Portland Cement Concrete (Class SI)
- 4" Aggregate Base Course, CA-6, Crushed

NOTES:

TRAFFIC CONTROL:
- Moving traffic control must be utilized. Storm crossings will need to be completed one half at a time to maintain access to residents. One lane of traffic in work areas shall be open at all times. Flaggers will be needed.

DRIVEWAY APRON REPLACEMENT:
- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. The Village will mark all driveways for saw cutting and removal. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 1/2 the distance between the back of curb and sidewalk and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 1/2 the distance between the back of curb and sidewalk.

STRIPING REPLACEMENT:
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:
- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

QUANTITY ASSUMPTIONS:
- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.

No.	Revision	Date
1	Village Review	01-01-2020

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www.haegerengineering.com

GEOMETRY AND PAVING PLAN - EAST WAYNE PLACE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C4.1 / C9

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Plot Date: Apr 03, 2020 - 12:59pm Plotted By: kim-l
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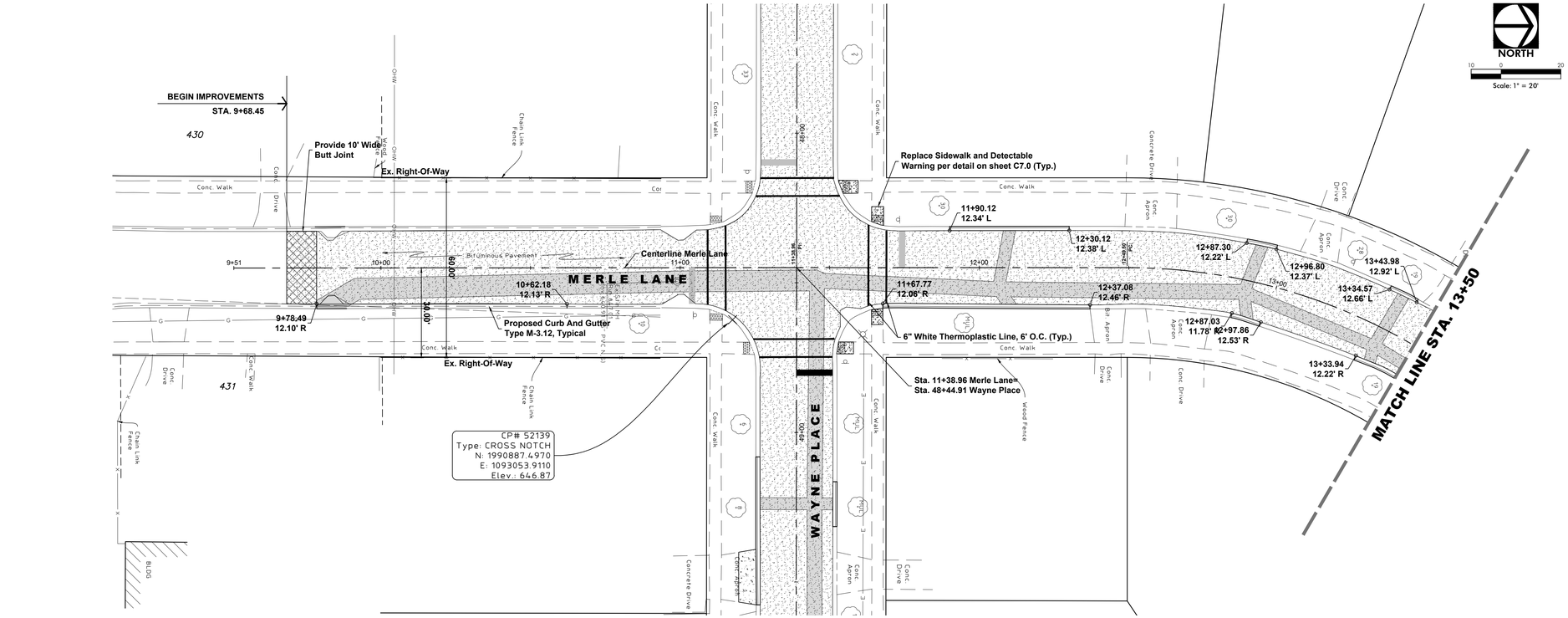

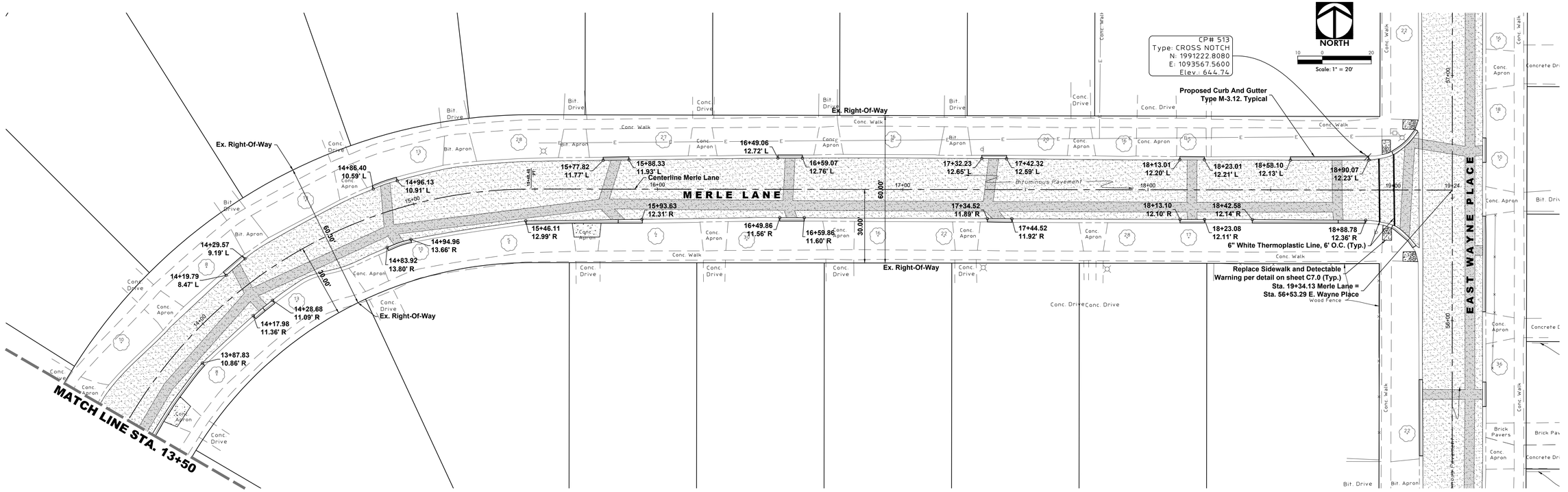

PAVING LEGEND

BITUMINOUS PAVEMENT - FULL DEPTH
- 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'C', N50
- 5" Hot-Mix Asphalt (HMA) Binder Course, IL-19.0, N50
- 6" Aggregate Base Course, Type 'B', CA-6, Crushed Aggregate (CA-6 Gr 8, Crushed Limestone, Virgin)

BITUMINOUS PAVEMENT OVERLAY
- 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'C', N50

CONCRETE DRIVEWAY APRON
- 5" Portland Cement Concrete (Class PV)
- 4" Aggregate Base Course (CA-6, Gr 8 or Gr 9, Virgin)

ASPHALT DRIVEWAY APRON
- 5" Compacted Asphalt, in 2 Lifts
- 3" Compacted Crushed Limestone (CA-6, Gr 8 or Gr 9, Virgin)

CONCRETE SIDEWALK - STANDARD
- 5" Portland Cement Concrete (Class SI)
- 4" Aggregate Base Course, CA-6, Crushed

NOTES:

TRAFFIC CONTROL:
- Moving traffic control must be utilized. Storm crossings will need to be completed one half at a time to maintain access to residents. One lane of traffic in work areas shall be open at all times. Flaggers will be needed.

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QUANTITY ASSUMPTIONS:
- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.

No.	Date	
1	04-01-2020	Village Review Revision

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GEOMETRY AND PAVING PLAN - MERLE LANE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C4.2 / C9

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Plot Date: Apr 03, 2020 - 1:00pm Plotted By: kim-l
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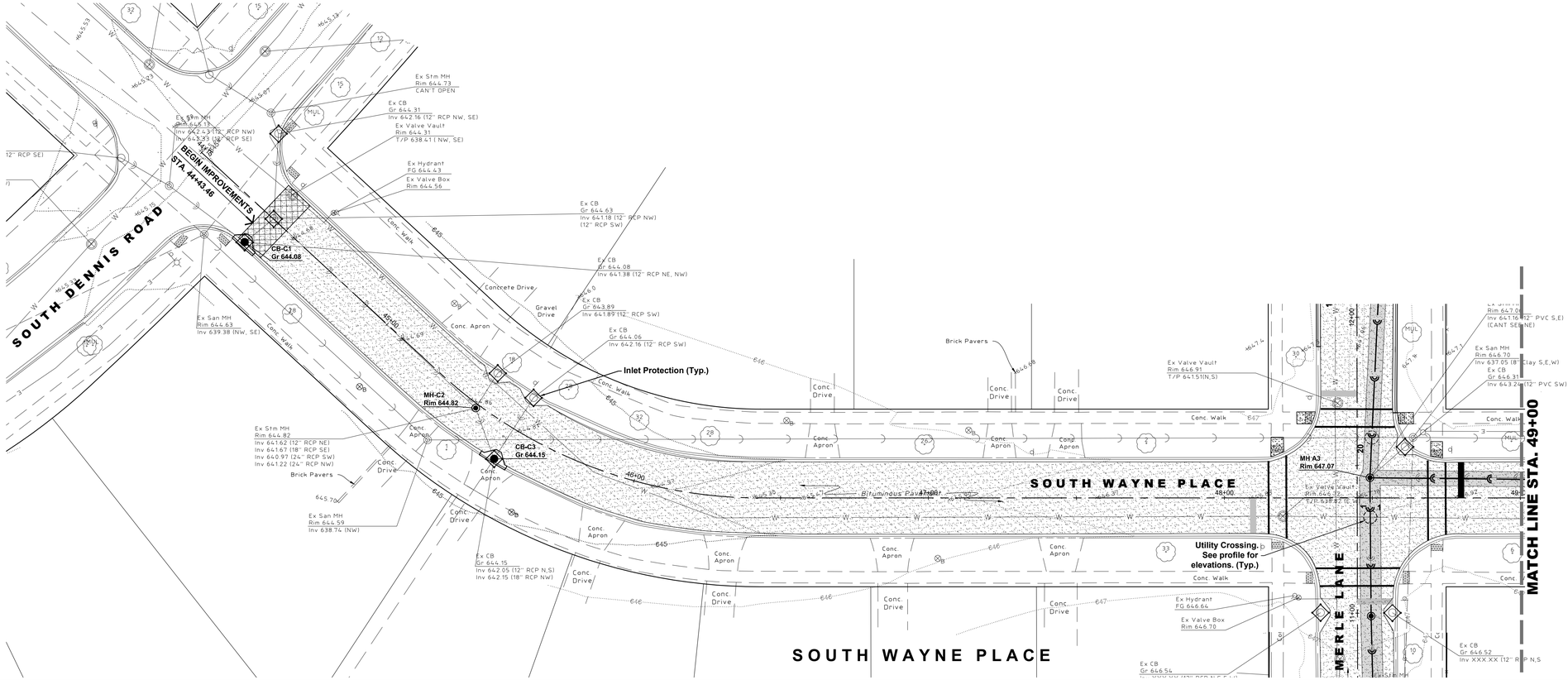

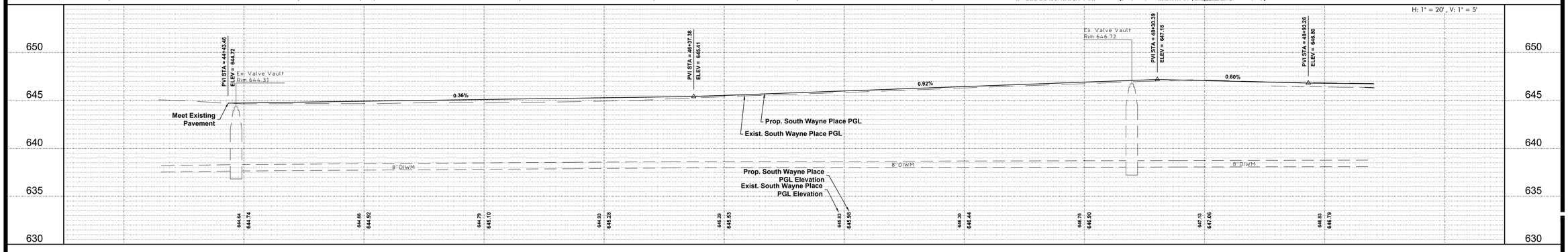

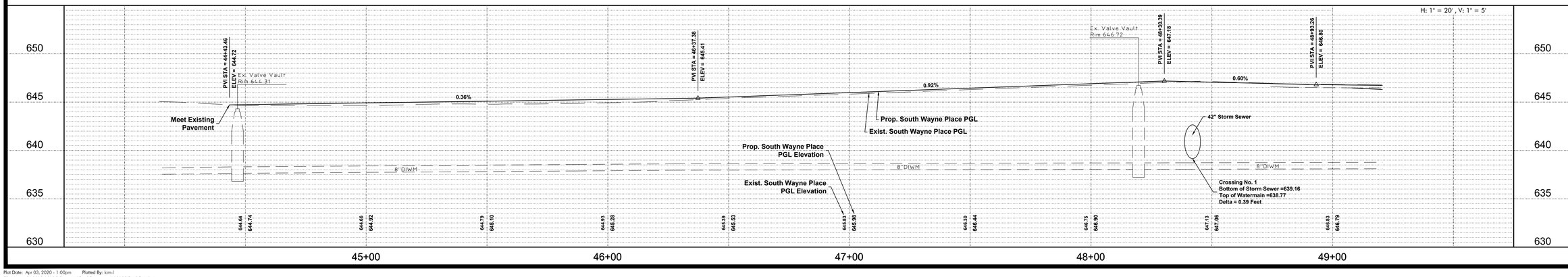

NORTH
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Scale: 1" =

No.	Date	Revision
1	04-01-2020	Village Review

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DRAINAGE PLAN AND PROFILE - SOUTH WAYNE PLACE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C5.0 / C9

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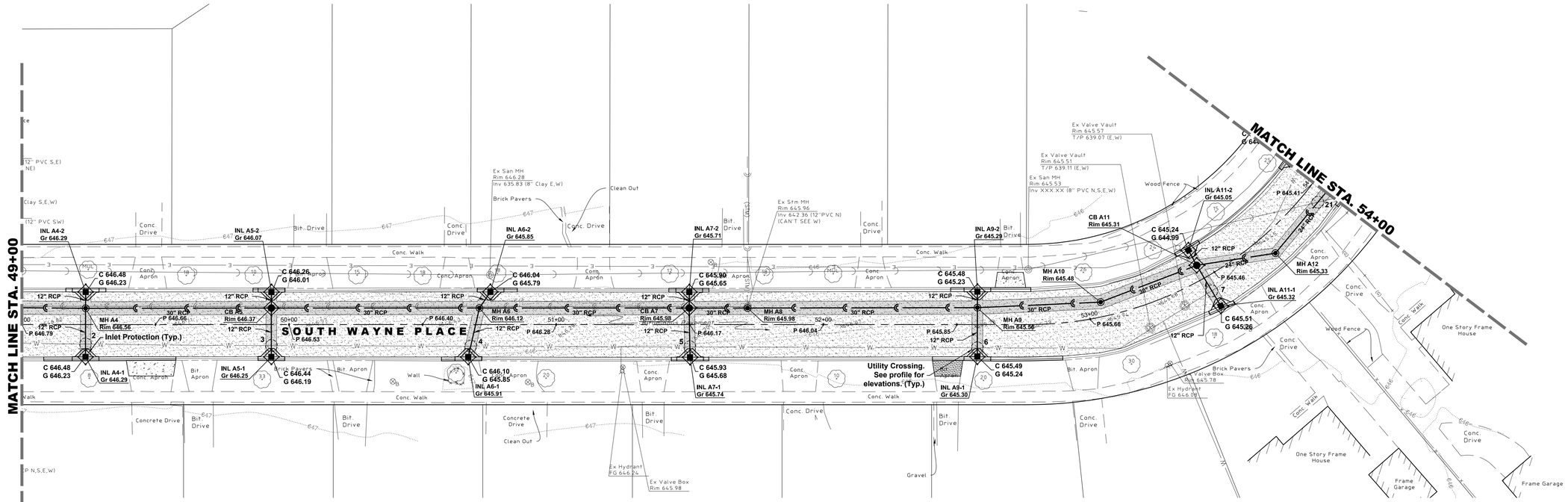
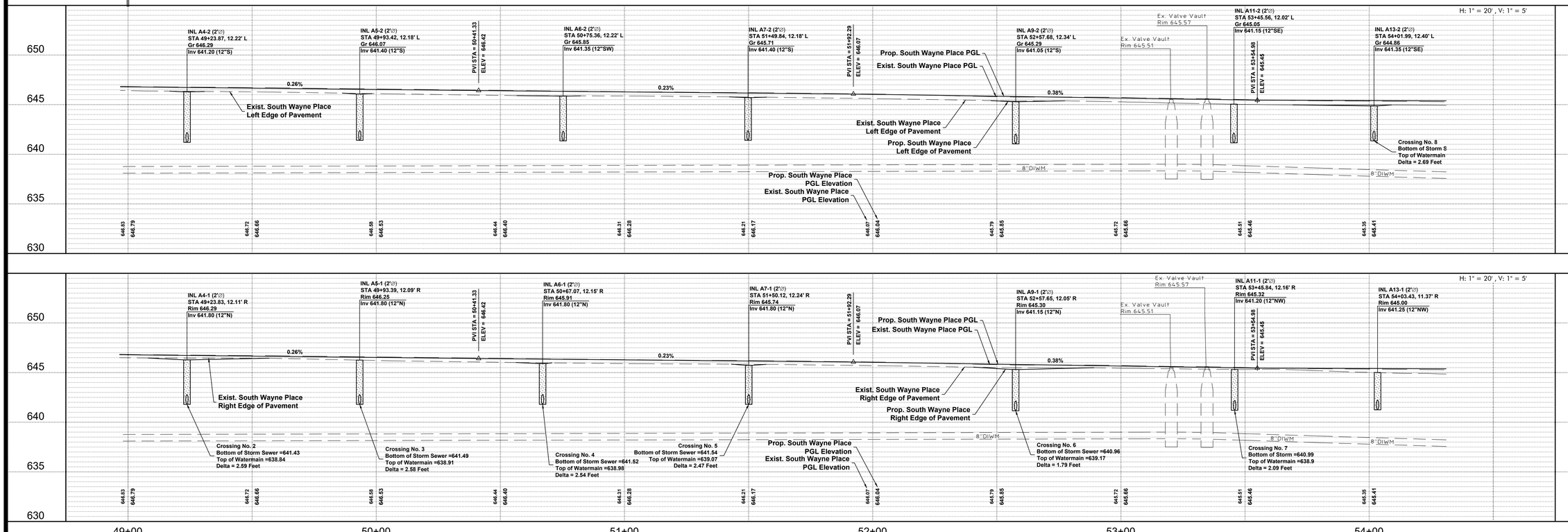
Plot Date: Apr 03, 2020 - 1:00pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Final Eng.dwg





NORTH

10 0 20

Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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DRAINAGE PLAN AND PROFILE - SOUTH WAYNE PLACE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C5.1 / C9

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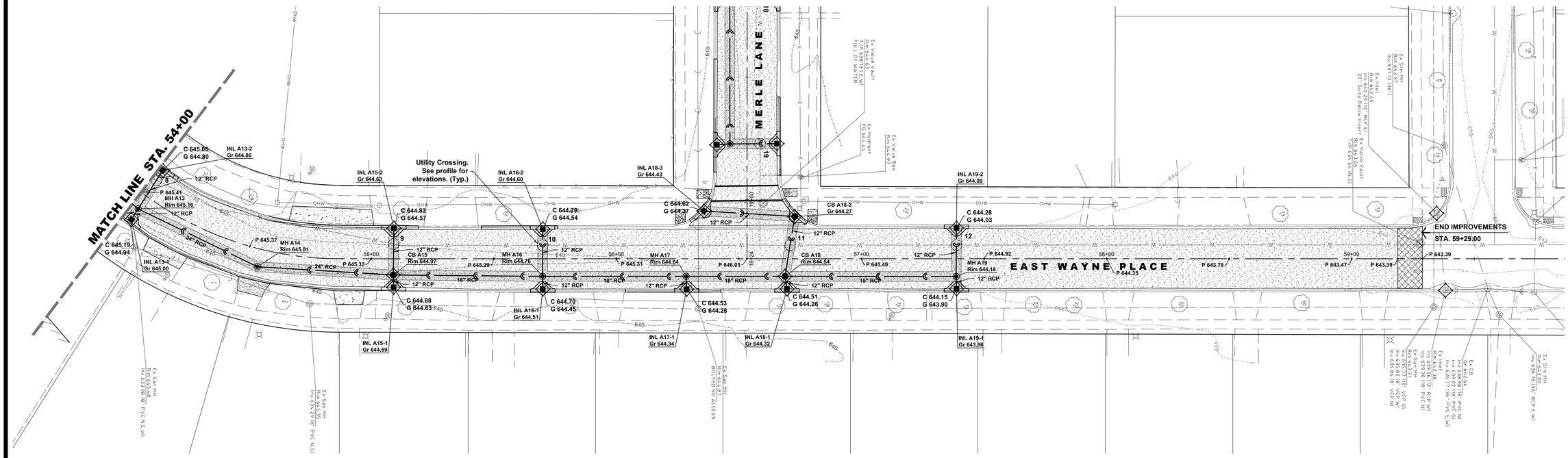
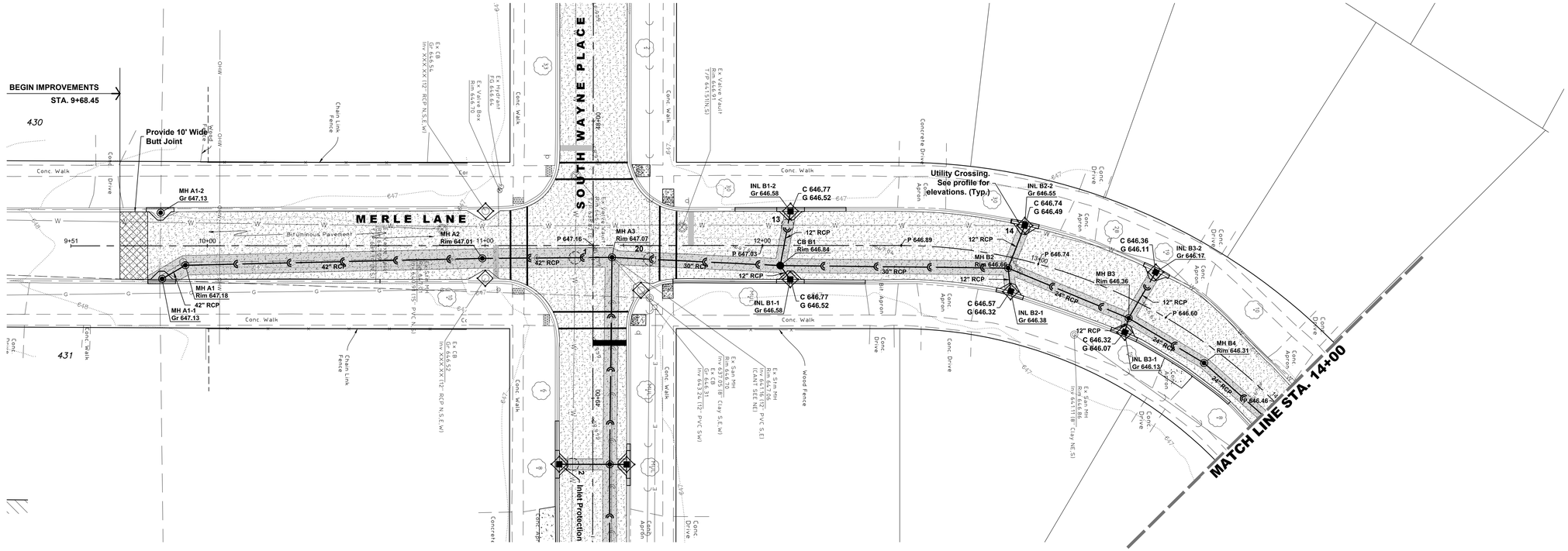
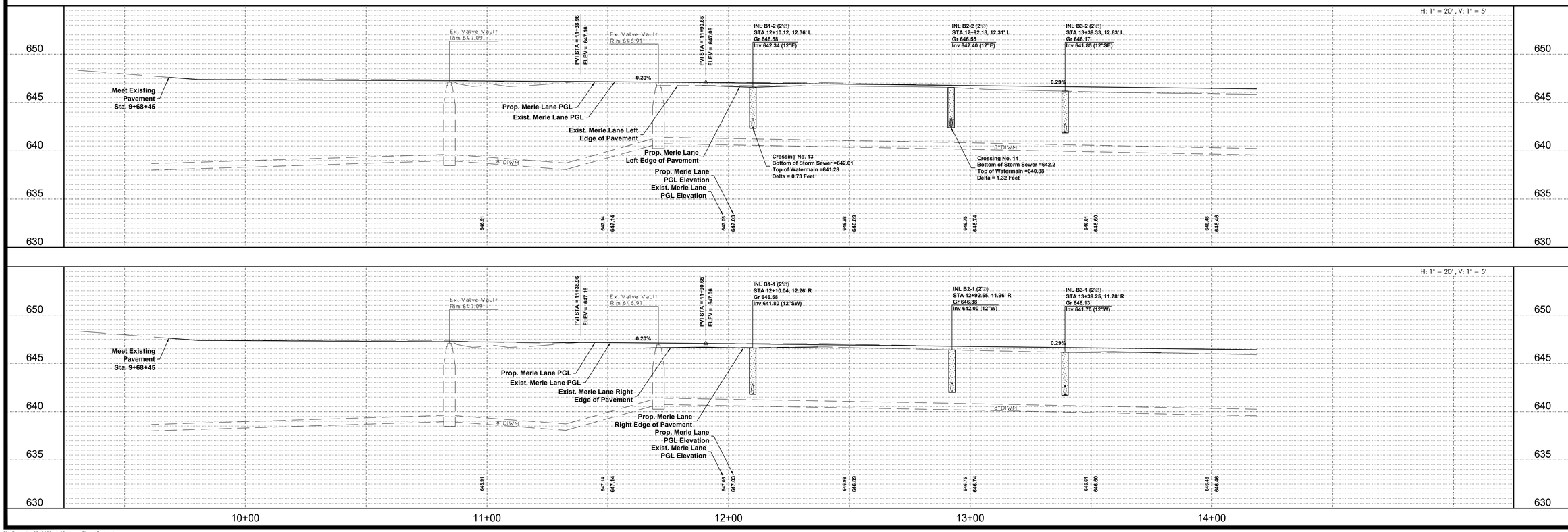

MATCH LINE STA. 54+00
MERLE LANE
EAST WAYNE PLACE
END IMPROVEMENTS
STA. 59+29.00
C 645.05
G 644.80
INL A13-2
Gr 644.86
12" RCP
P 645.41
MH A13
Rim 645.16
C 645.19
G 644.94
INL A13-1
Gr 645.00
24" RCP
P 645.37
MH A14
Rim 645.01
P 645.33
INL A15-2
Gr 644.63
Utility Crossing.
See profile for
elevations. (Typ.)
INL A16-2
Gr 644.60
INL A18-3
Gr 644.43
C 644.82
G 644.57
C 644.79
G 644.54
C 644.62
G 644.37
CB A18-2
Gr 644.27
INL A19-2
Gr 644.09
C 644.28
G 644.03
P 644.92
MH A19
Rim 644.18
P 644.35
P 643.78
P 643.47
P 643.39
CB A15
Rim 644.97
P 645.29
MH A16
Rim 644.76
P 645.31
MH A17
Rim 644.64
P 646.03
CB A18
Rim 644.54
P 645.49
18" RCP
15" RCP
C 644.88
G 644.63
C 644.70
G 644.45
C 644.53
G 644.28
C 644.51
G 644.26
C 644.15
G 643.90
INL A15-1
Gr 644.69
INL A16-1
Gr 644.51
INL A17-1
Gr 644.34
INL A18-1
Gr 644.32
INL A19-1
Gr 643.96
Ex. Valve Vault
Rim 643.07
Ex. Inlet
Inv 640.22 (12" RCP E)
20" Sump Below Invert
Ex. Valve Vault
T/P 634.54 (N,S)
Ex. Valve Vault
T/P 638.13 (E,W)
FULL OF WATER
Ex. Hydrant
FG 644.42
Ex. Valve Box
Rim 644.97
Ex. San MH
Rim 644.98
Inv 637.12 (36" RCP E)
Ex. San MH
Rim 644.28
Inv 636.77 (36" PVC E,W)
Ex. CB
Rim 643.09
Inv 639.82 (8" PVC N)
Inv 639.62 (8" PVC S)
Inv 636.77 (36" PVC E,W)
Ex. San MH
Rim 643.27 (10" VCP S)
Inv 639.82 (8" VCP W)
Inv 639.98 (8" VCP N)
Ex. San MH
Rim 643.09
Inv 636.76 (36" RCP E,W)
Ex. San MH
Rim 645.58
Inv 639.98 (8" PVC N,E,W)
Ex. San MH
Rim 644.29
Inv 639.29 (8" PVC N,S)
Ex. San MH
Rim 643.38
Inv 639.18 (8" PVC N)
Ex. San MH
Rim 643.27
Inv 639.18 (8" PVC N)
Ex. San MH
Rim 643.27
Inv 639.08



MERLE LANE



NORTH
10 0 20
Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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DRAINAGE PLAN AND PROFILE - MERLE LANE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C5.3 / C9

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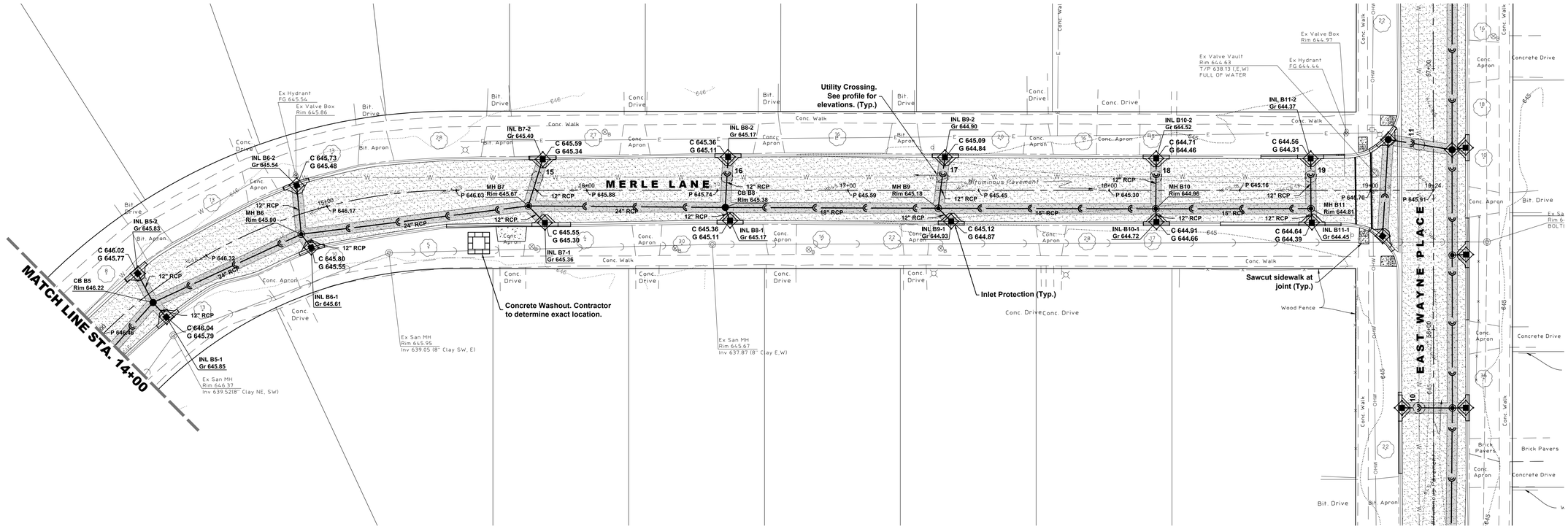

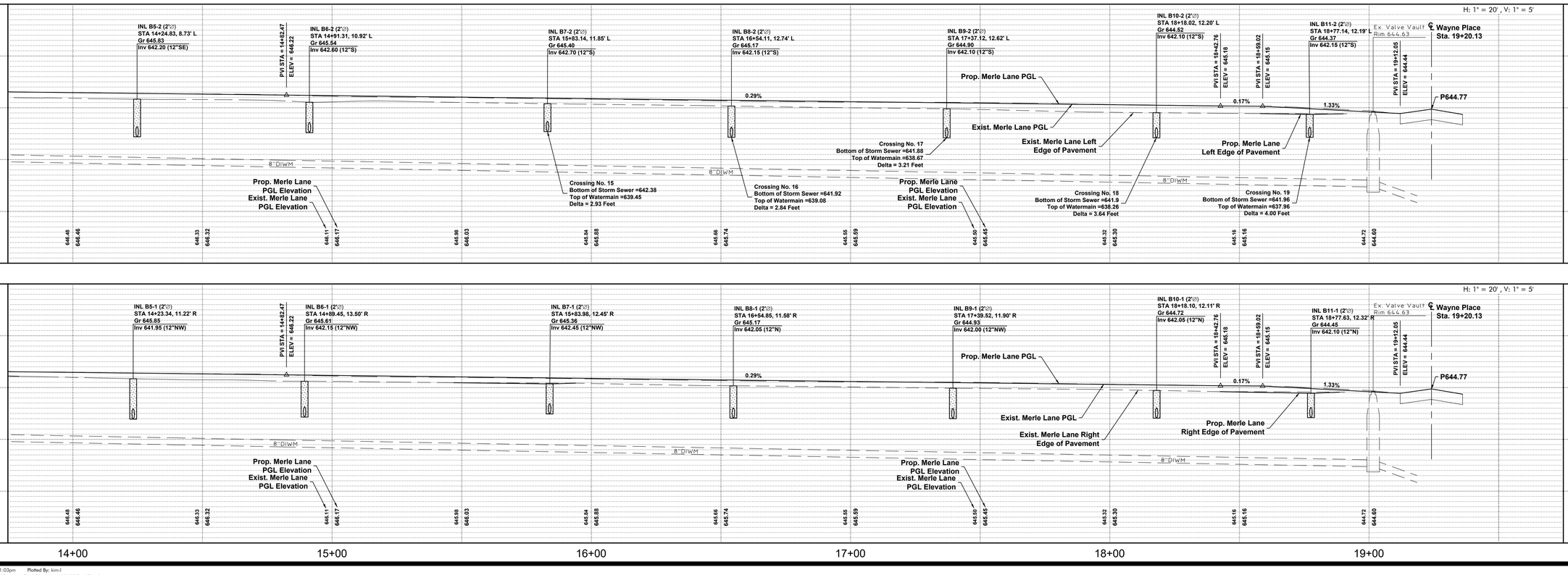

NORTH
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Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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DRAINAGE PLAN AND PROFILE - MERLE LANE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C5.4 / C9

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Plot Date: Apr 03, 2020 - 1:03pm Plotted By: kim-l
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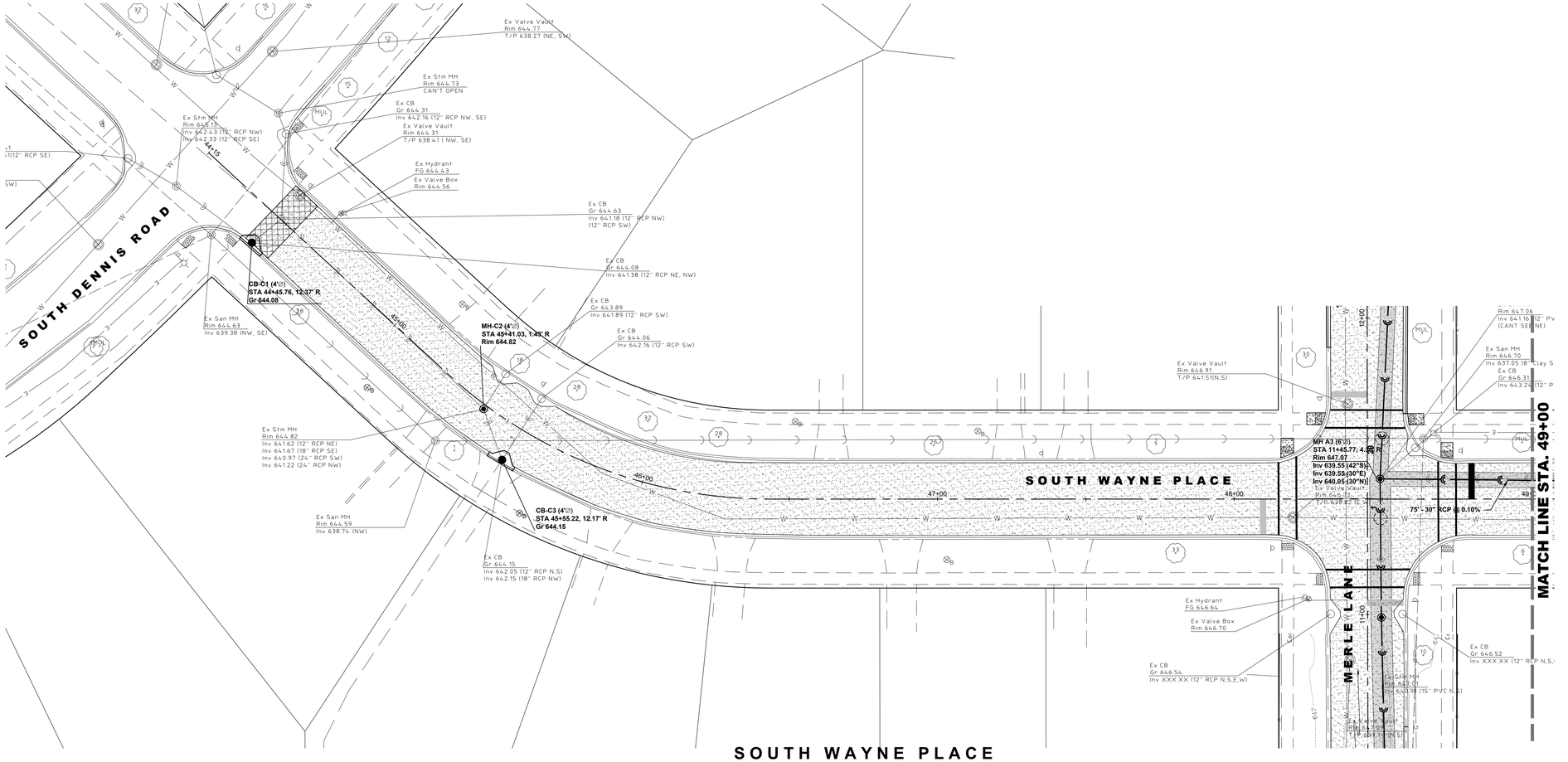

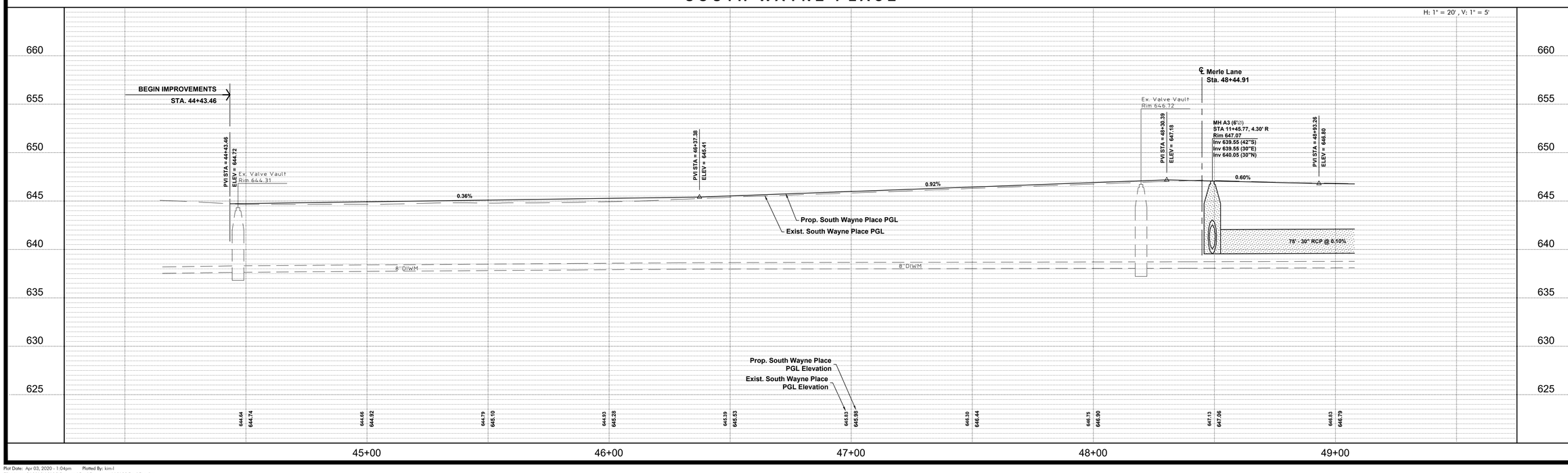

NORTH

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Scale: 1" =

No.	Date	Revision
1	04-01-2020	Village Review

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UTILITY PLAN AND PROFILE - SOUTH WAYNE PLACE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C6.0 / C9

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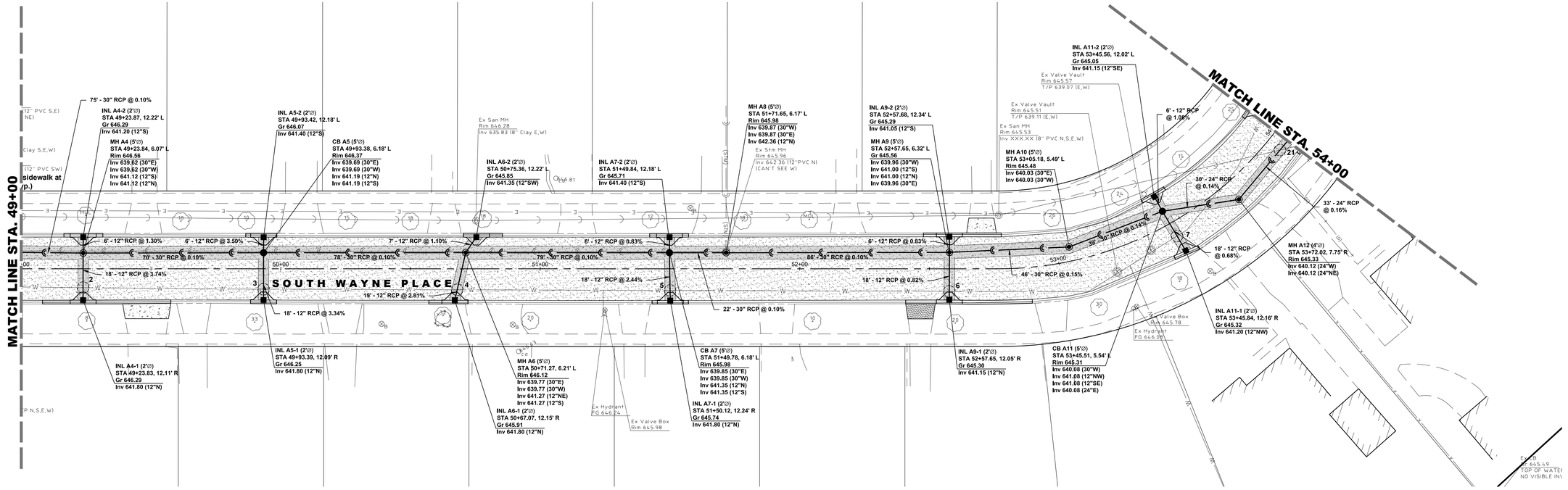

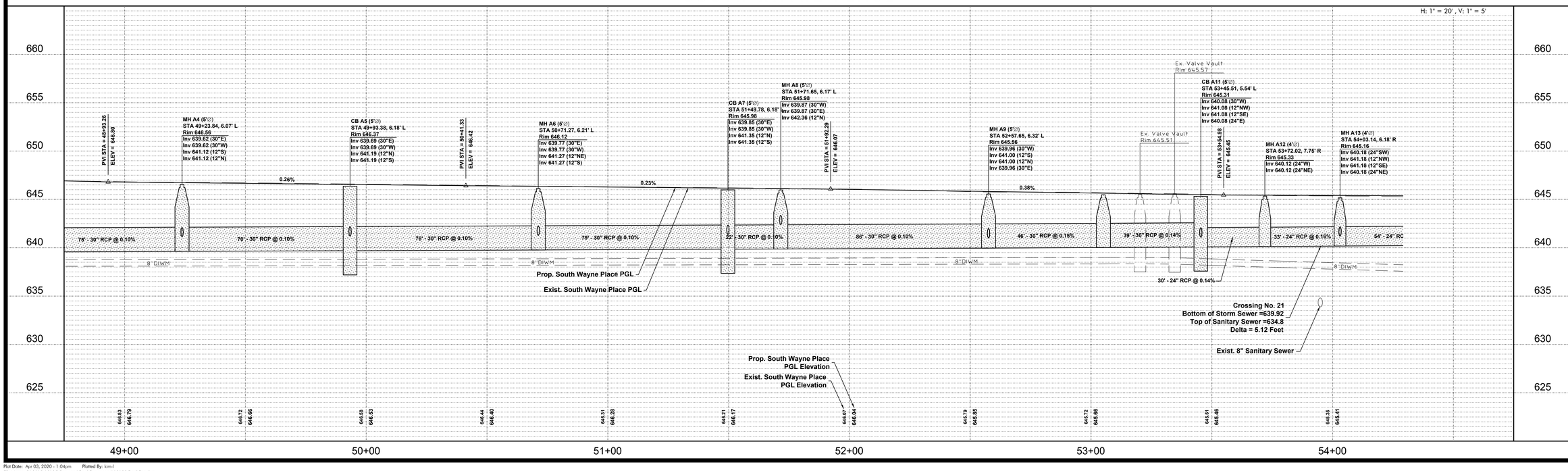

NORTH

10 0 20

Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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UTILITY PLAN AND PROFILE - SOUTH WAYNE PLACE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C6.1 / C9

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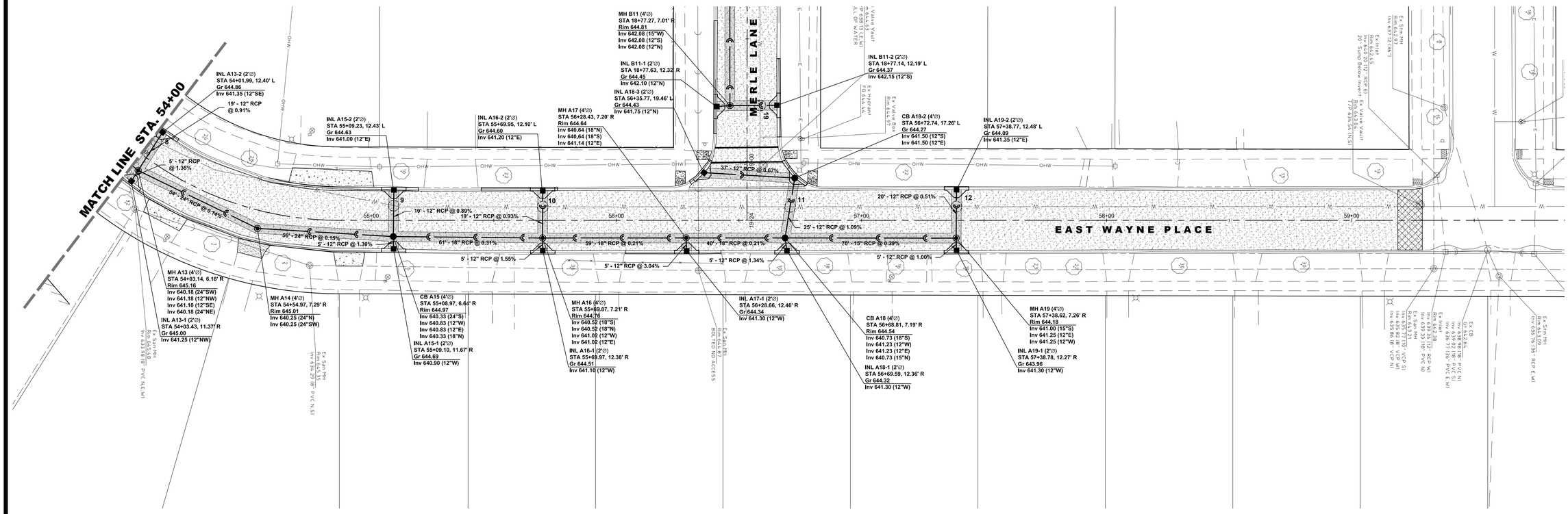
Plot Date: Apr 03, 2020 - 1:04pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Final Eng.dwg



NORTH

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Scale: 1" = 20'

No.	Date	Revision
1	04-01-2020	Village Review

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UTILITY PLAN AND PROFILE - EAST WAYNE PLACE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C6.2 / C9

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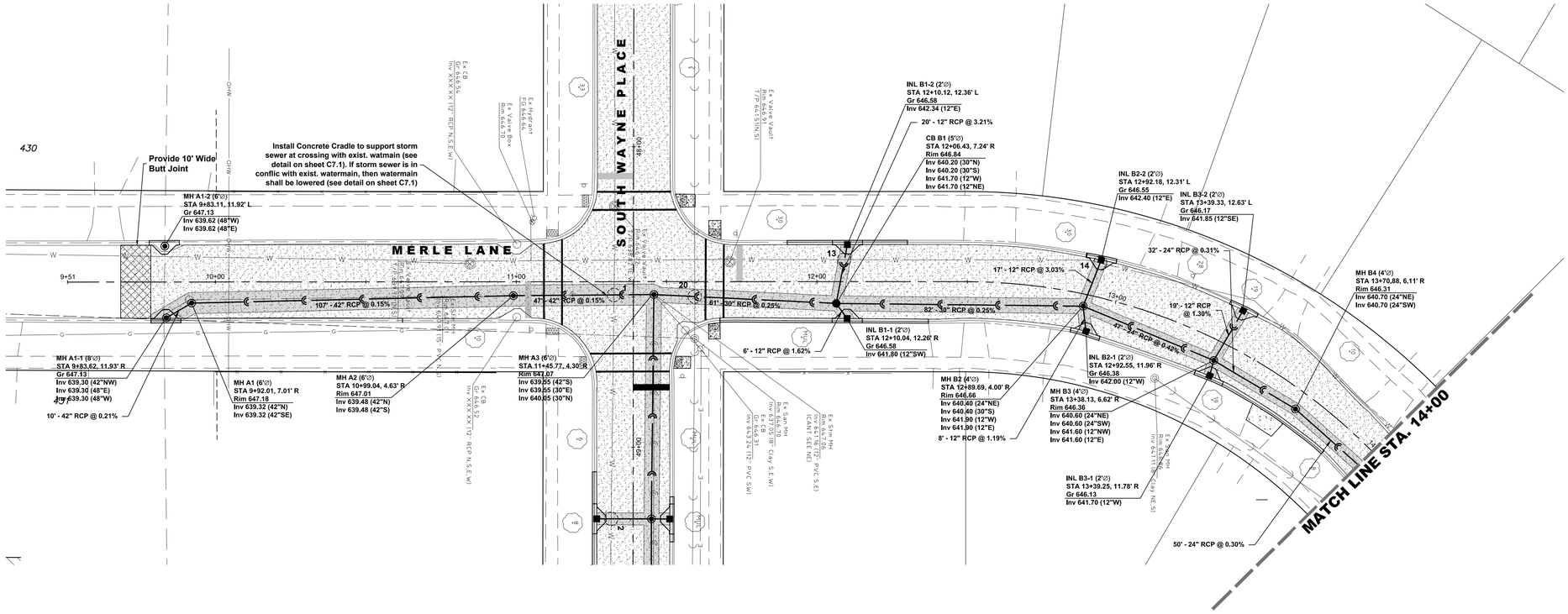

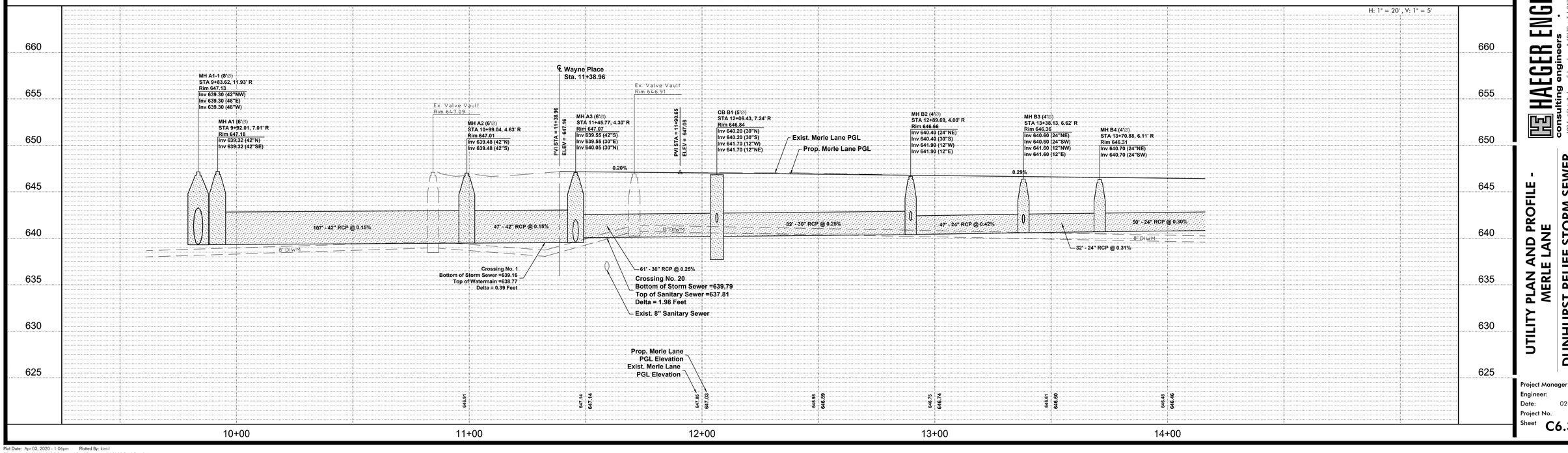

NORTH
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Scale: 1" = 20'

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No.	Date	Revision
1	04-01-2020	Village Review

UTILITY PLAN AND PROFILE - MERLE LANE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C6.3 / C9

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Plot Date: Apr 03, 2020 - 1:06pm Plotted By: kim-l
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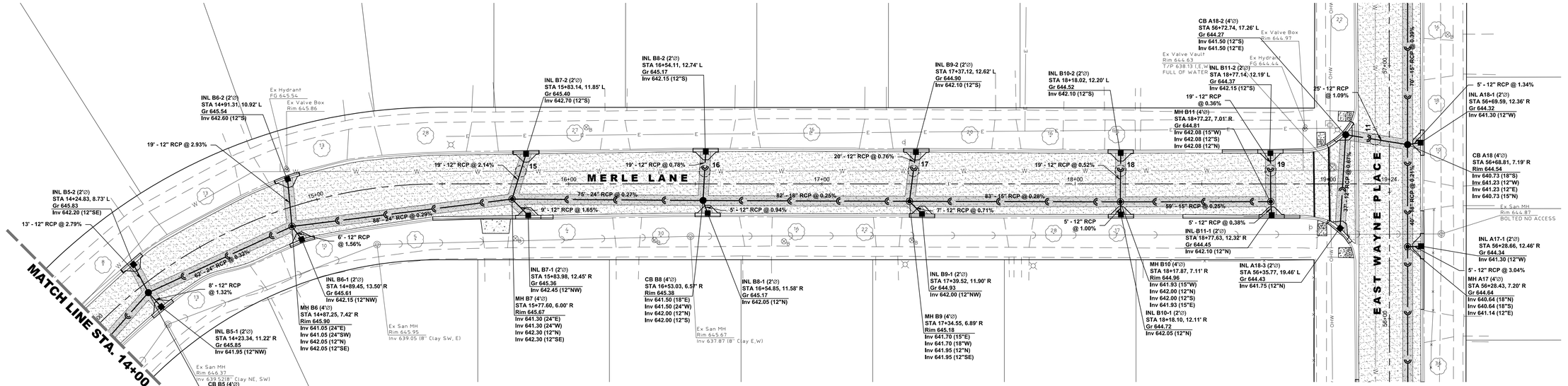
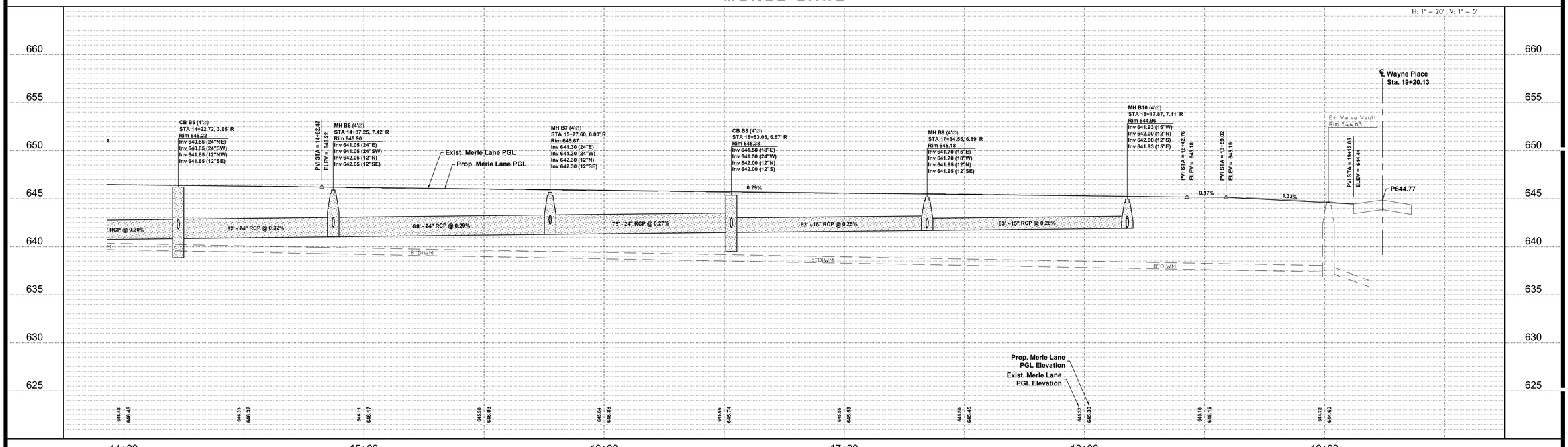


MERLE LANE



NORTH

10 0 20

Scale: 1" = 20'

No.	Date	
1	04-01-2020	Village Review Revision

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UTILITY PLAN AND PROFILE - MERLE LANE

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C6.4 / C9

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Plot Date: Apr 03, 2020 - 1:06pm Plotted By: kim-l
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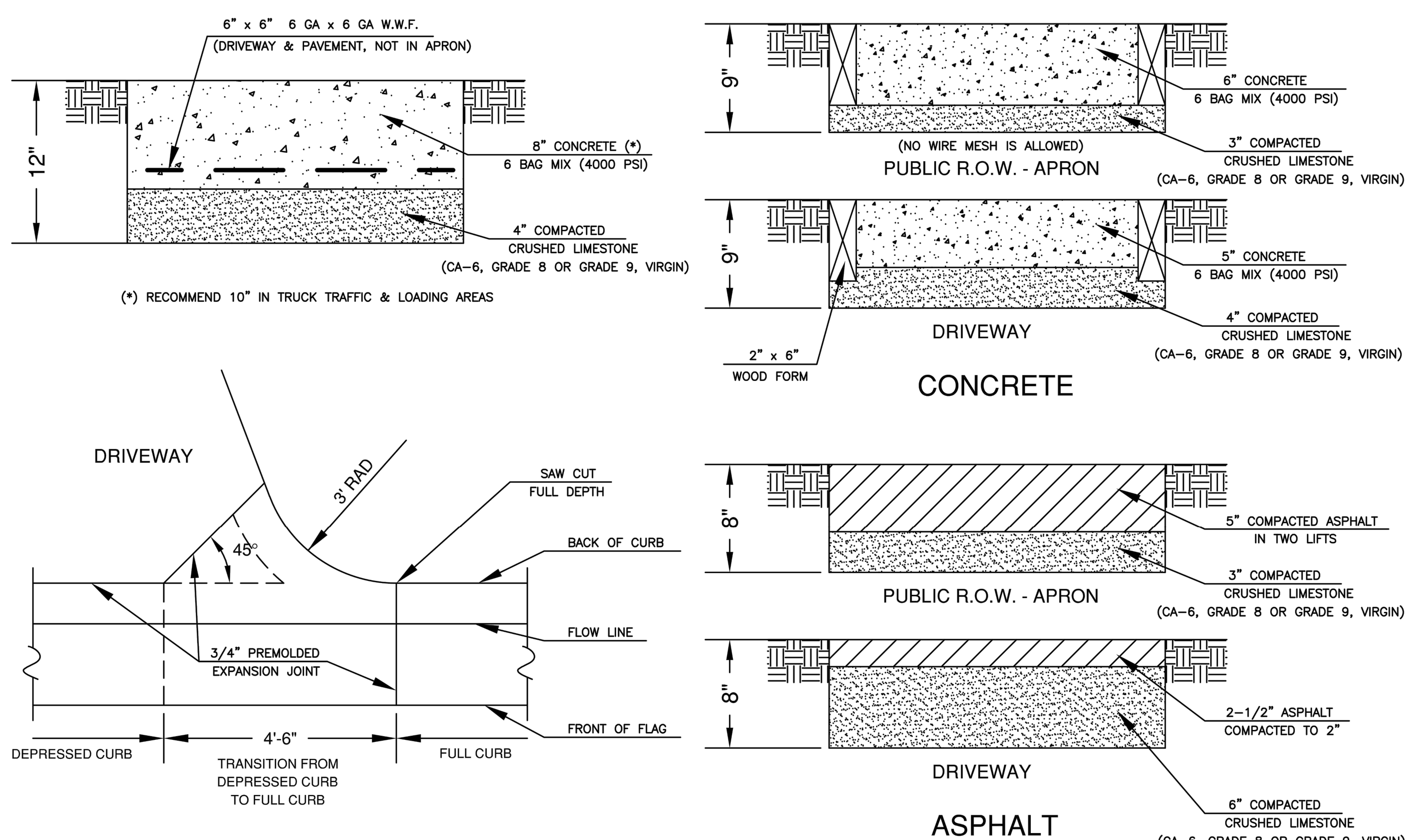


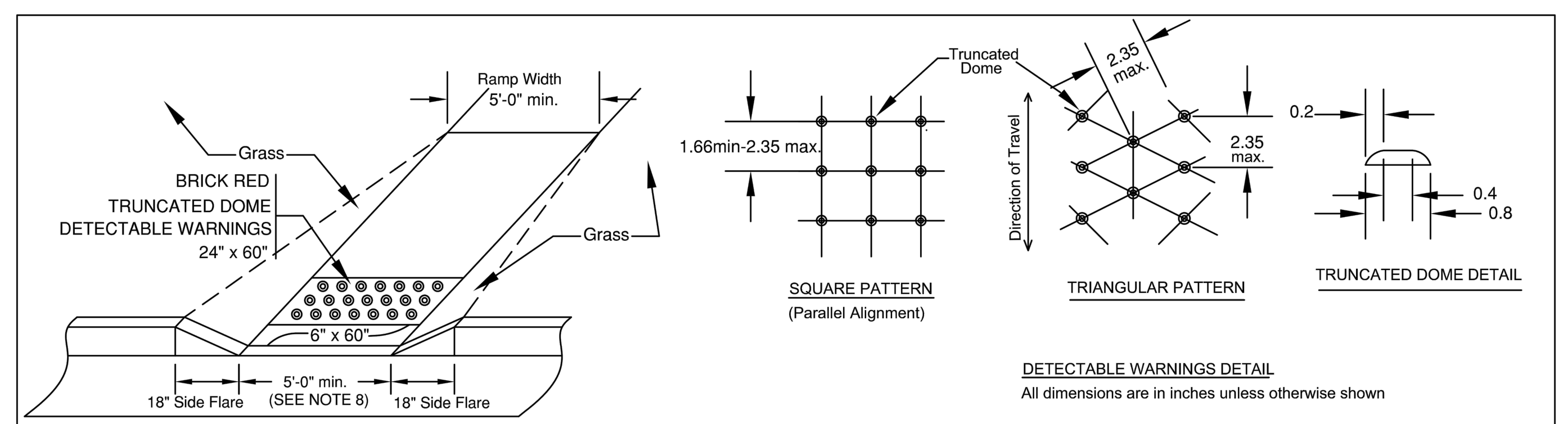
COMMERCIAL DRIVEWAY

SEE V.O.W. PUBLIC SIDEWALK & SIDEWALK RAMP STANDARD

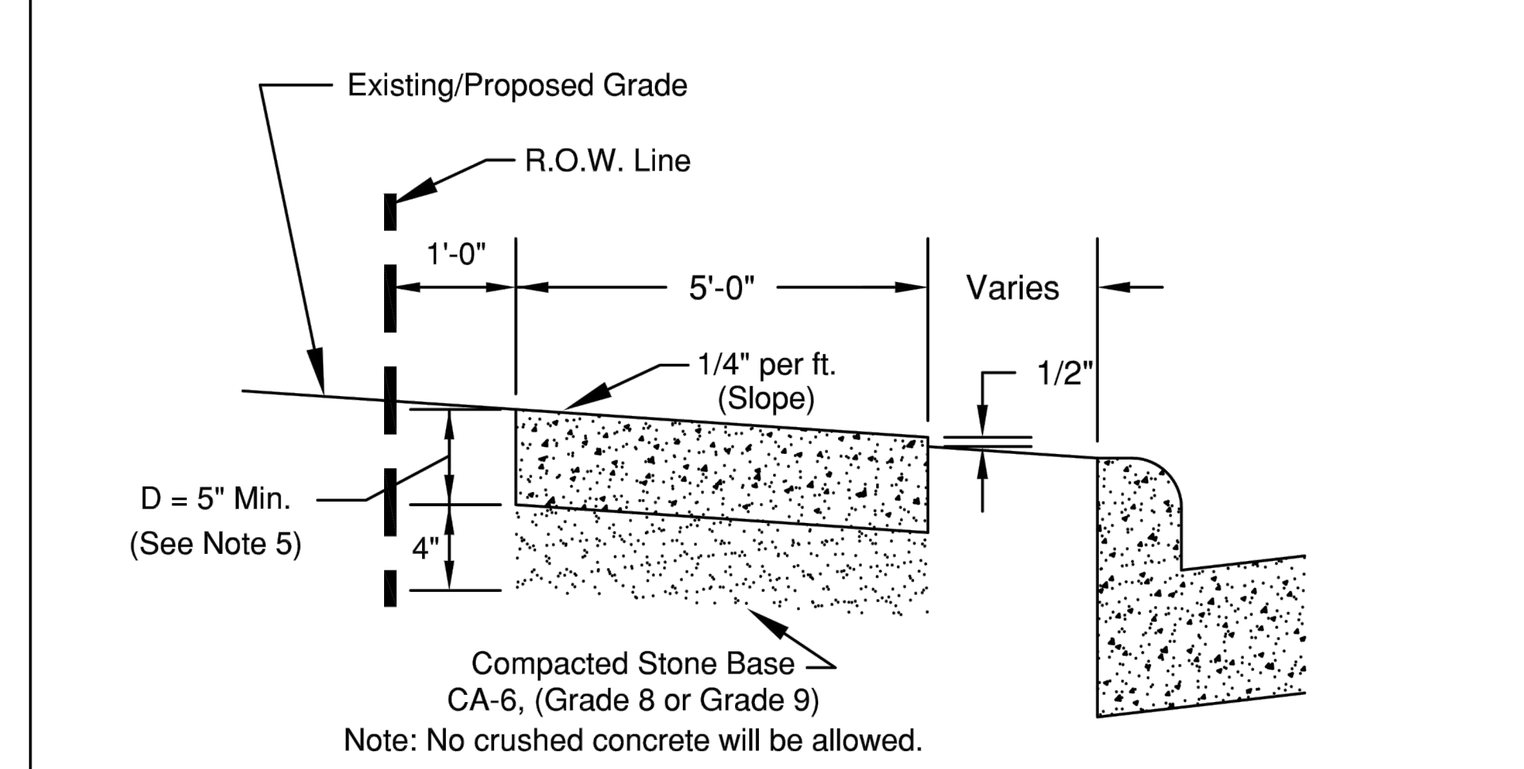
ASPHALT

RESIDENTIAL DRIVEWAY

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	DRIVEWAY STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 02-09-06 REVISED PER RG; C.J.C. 11-27-07 AUTOCAD FILE; K.R.G. 12-17-08 APRON AGG. THICK; K.R.G. 03-29-10 REVISED GRADE 9	DETAIL NO. R-1



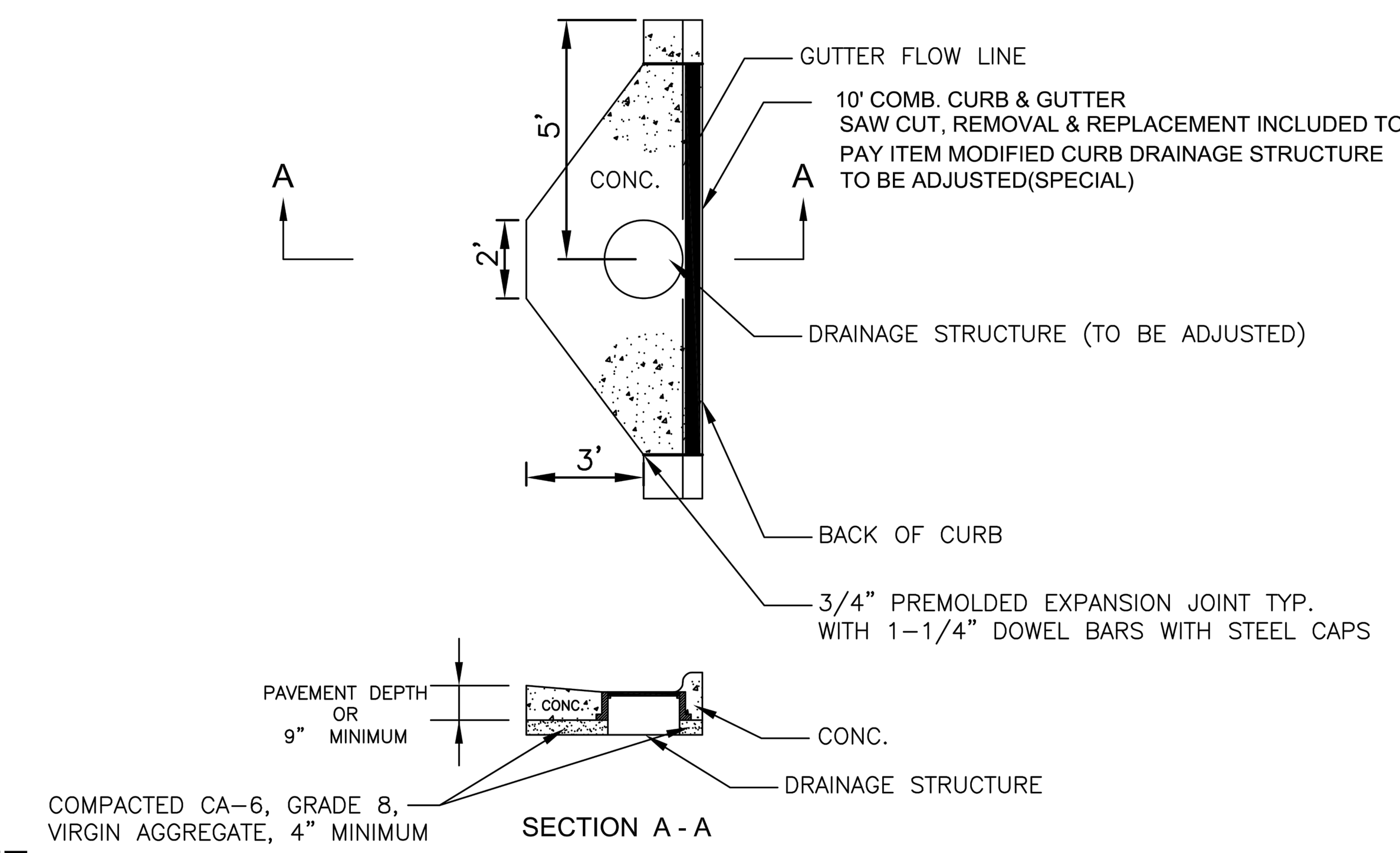
SIDEWALK RAMP



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.

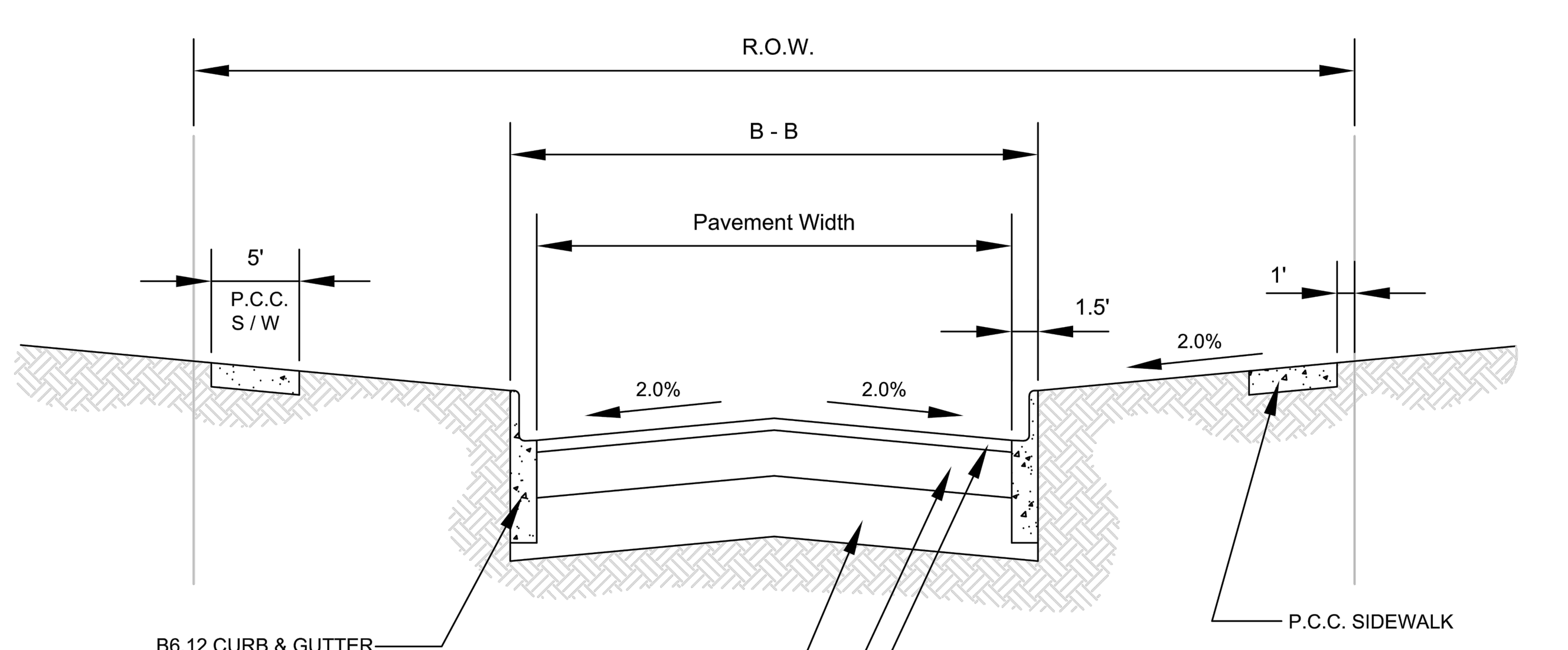
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	PUBLIC SIDEWALK STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: K.R.G. 9-11-06 AS PER T.W.M.; C.J.C. 11-27-07 AUTOCAD FILE; C.J.C. 08-08-08 AS PER K.R.G.; L.R. 04-04-14 AS PER J.T.; K.A.G. 12-21-16 AUTOCAD FILE	DETAIL NO. R-3



NOTE:

CONCRETE REPLACEMENT WILL BE MONOLITHIC POUR WITH EXPANSON MATERIAL AT CONSTRUCTION JOINT.
BACK FILL WEDGE AREA WITH CA-6 (GRADE 8), CRUSHED LIMESTONE OR AS DIRECTED BY ENGINEER.

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	MODIFIED CURB DRAINAGE STRUCTURE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 4-18-00 AUTO CAD FILE; S.W. 9-18-01 PER COMMENTS; J.S. 01-10-05 AS PER IDOT; K.R.G. 02-19-08 AGG. BASE; M.T.P. 12-16-08 PER COMMENTS	DETAIL NO. R-15



Design Standards	R.O.W.	Pavement Width
Major Streets	100'	51'
Secondary Streets	80'	51'
Collector Streets	66'	39'
Minor Streets	66'	30'
Marginal Access Streets	40'	30'
Cul-de-sac	Meet requirements of minor street and turnaround as per Section 17.28.110 of Municipal Code	

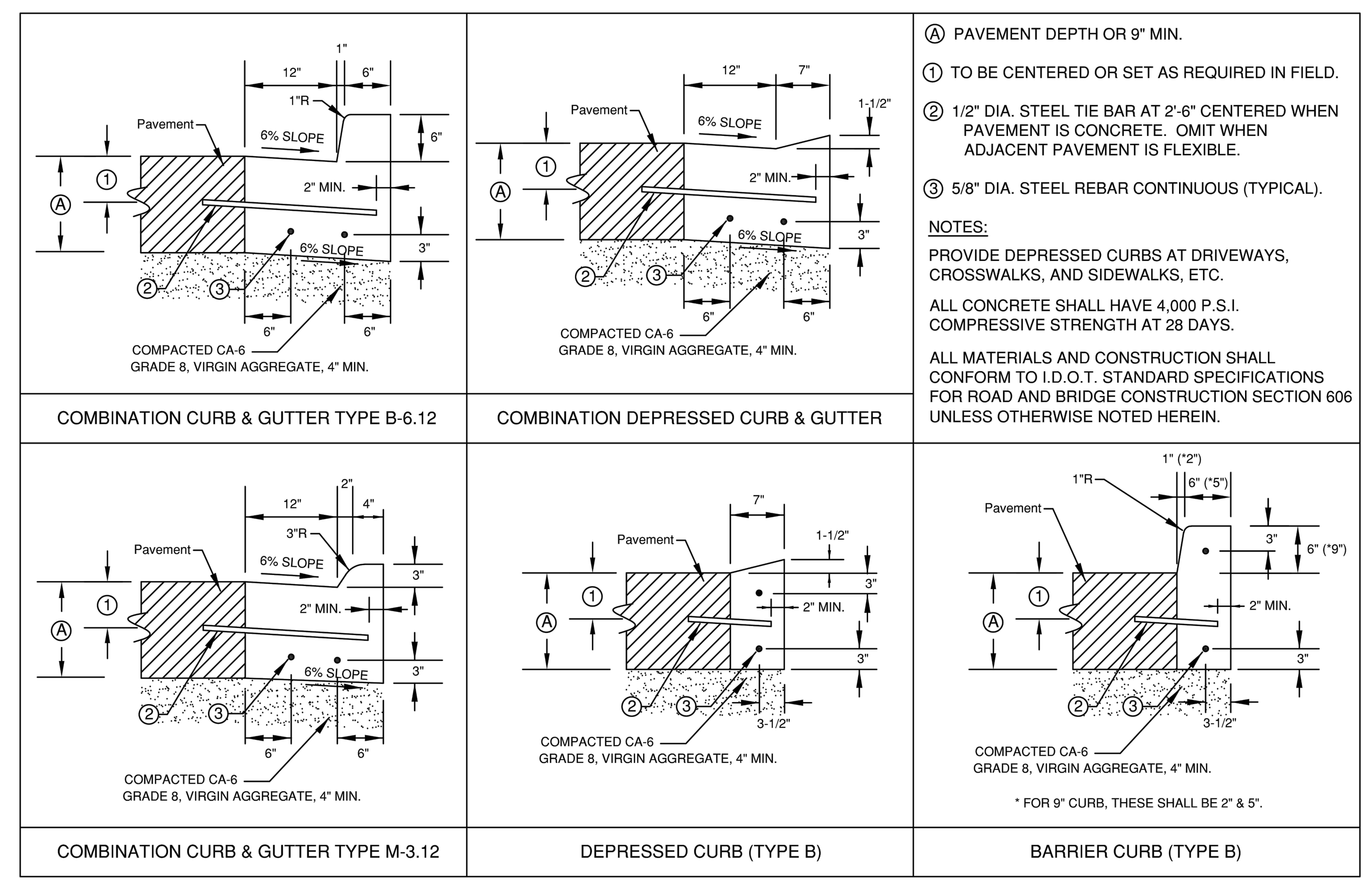
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

MAJOR, SECONDARY, AND ALL ROADS IN INDUSTRIAL DISTRICTS:
8"HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
0.05 GAL/S.Y. BITUMINOUS MATERIAL PRIME COAT

COLLECTOR, MINOR, MARGINAL ACCESS, AND CUL-DE-SACS:
5"HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
0.05 GAL/S.Y. BITUMINOUS MATERIAL PRIME COAT

6" AGGREGATE BASE COURSE, TYPE B, CA-6 CRUSHED AGGREGATE, VIRGIN MATERIAL ONLY (CA-6 GRADE 8, CRUSHED LIMESTONE)

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	ROADWAY PAVEMENT SECTION STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: C.J.C. 11-27-07 AUTOCAD FILE; K.R.G. 04-01-10 AUTOCAD FILE; K.G.C. 07-27-10 AUTOCAD FILE; K.A.G. 01-08-18 STANDARDS TABLE	DETAIL NO. R-9



Ⓐ 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).

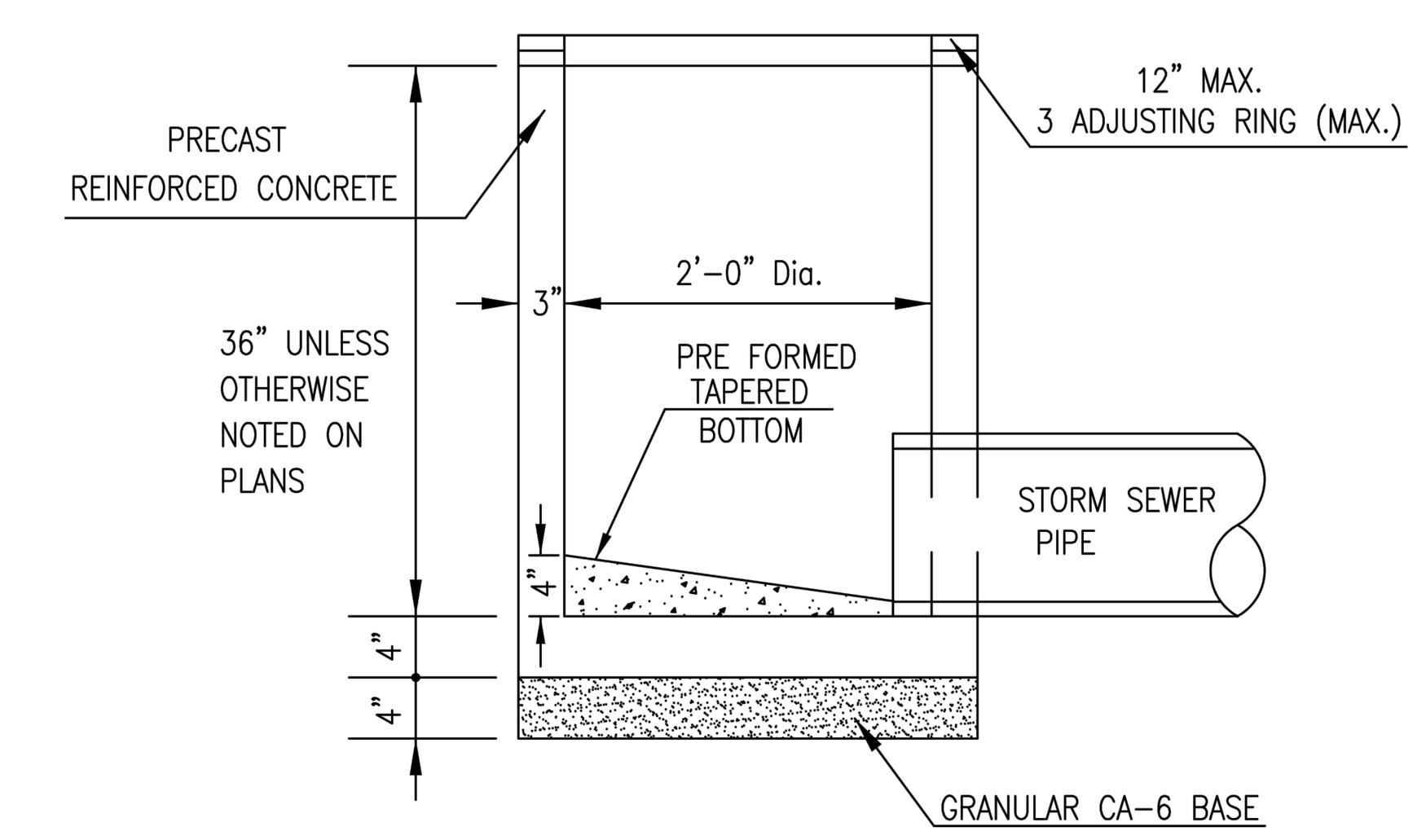
NOTES:

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.

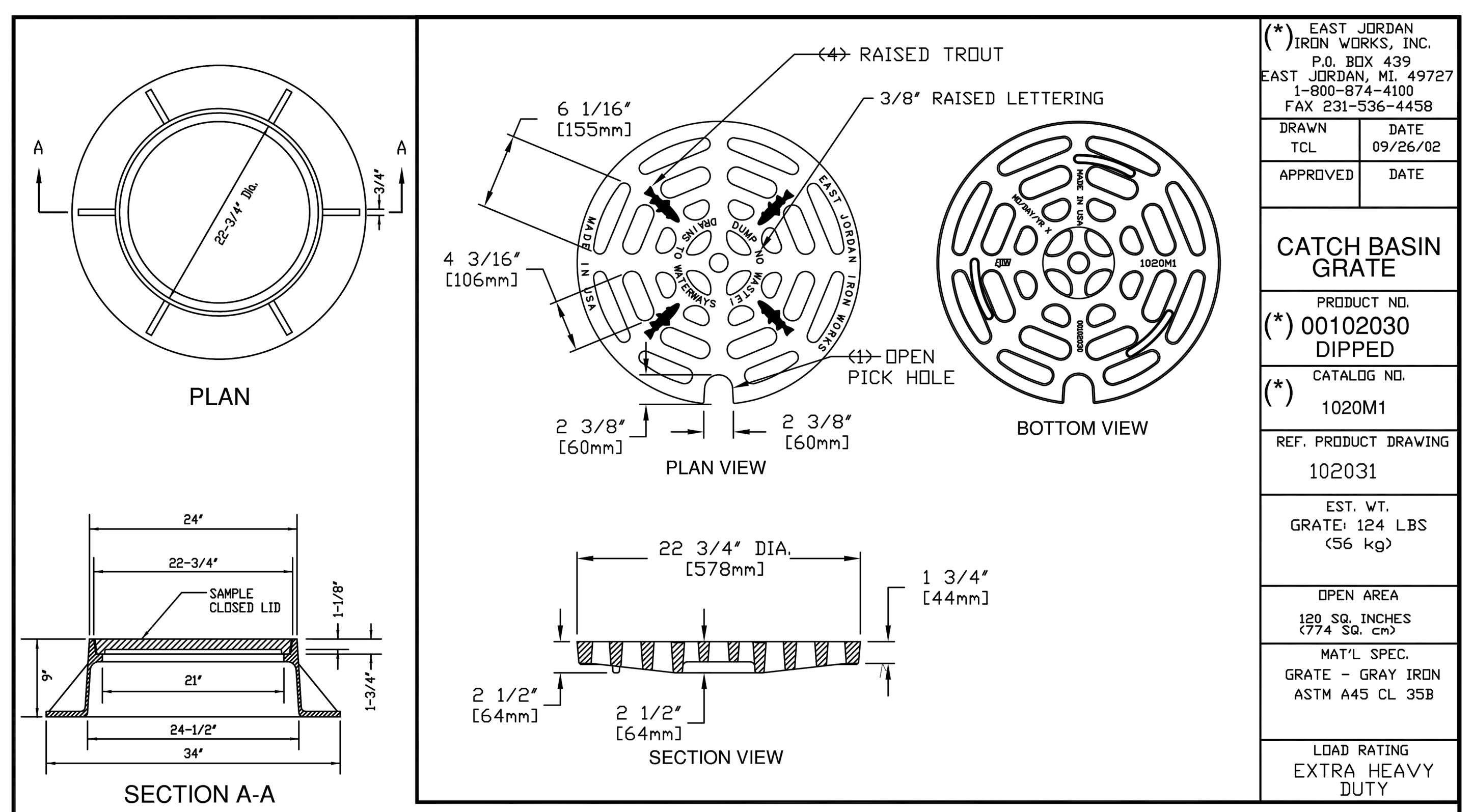
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	CURB AND GUTTER STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 06-16-00 AUTOCAD FILE; C.J.C. 11-27-07 AUTOCAD FILE; K.A.G 11-21-16 AUTOCAD FILE	DETAIL NO. R-12



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

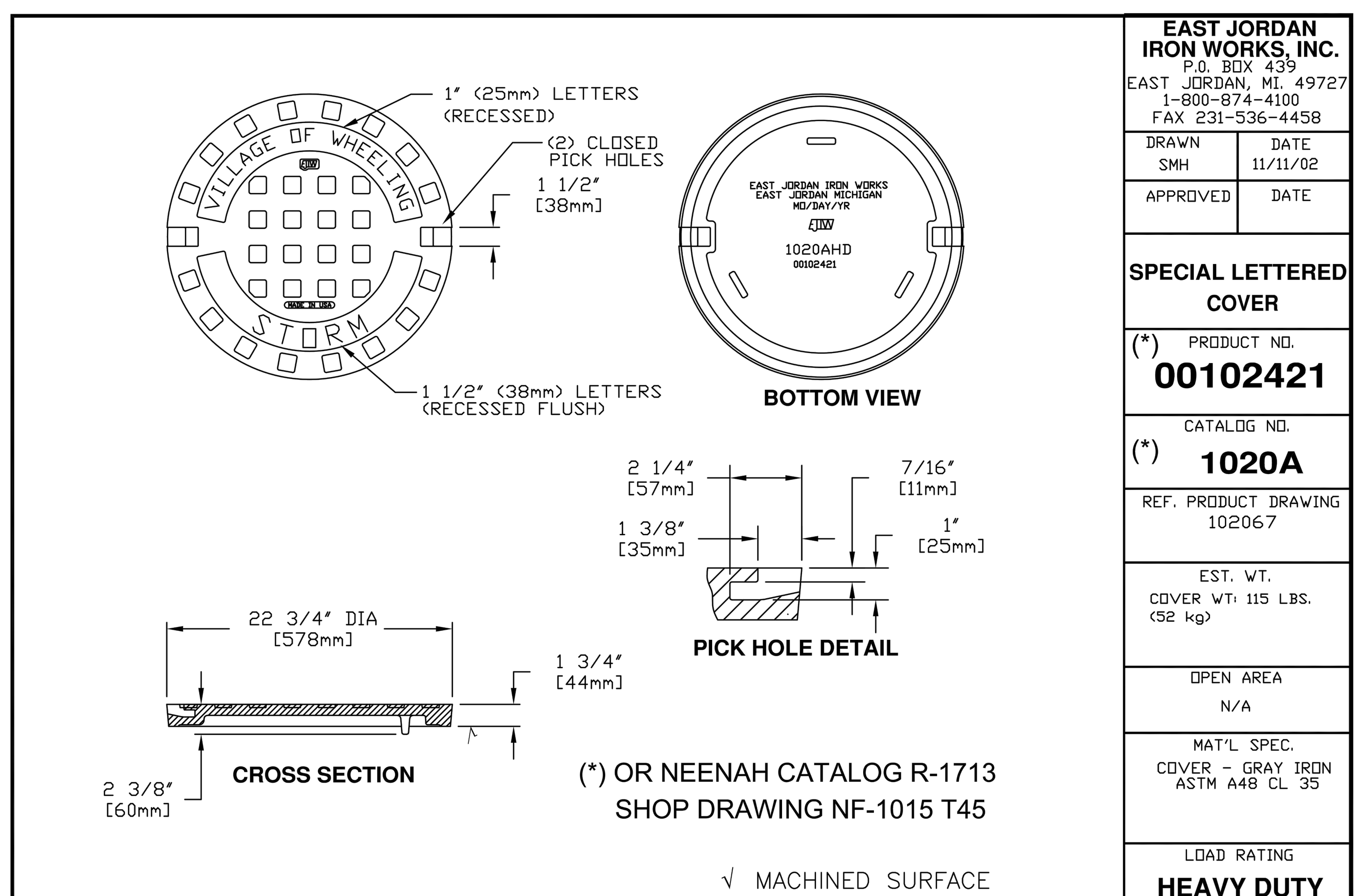
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	INLET STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 5-17-00 AUTOCAD FILE; S.W. 9-21-01 PER COMMENTS; C.J.C. 01-29-08 AUTOCAD FILE; K.A.G. 01-04-18 ADDED NOTES	DETAIL NO. ST-1



FURNISH HEAVY DUTY CASTING
AS REQUIRED BY THE VILLAGE ENGINEER

(*) or NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17

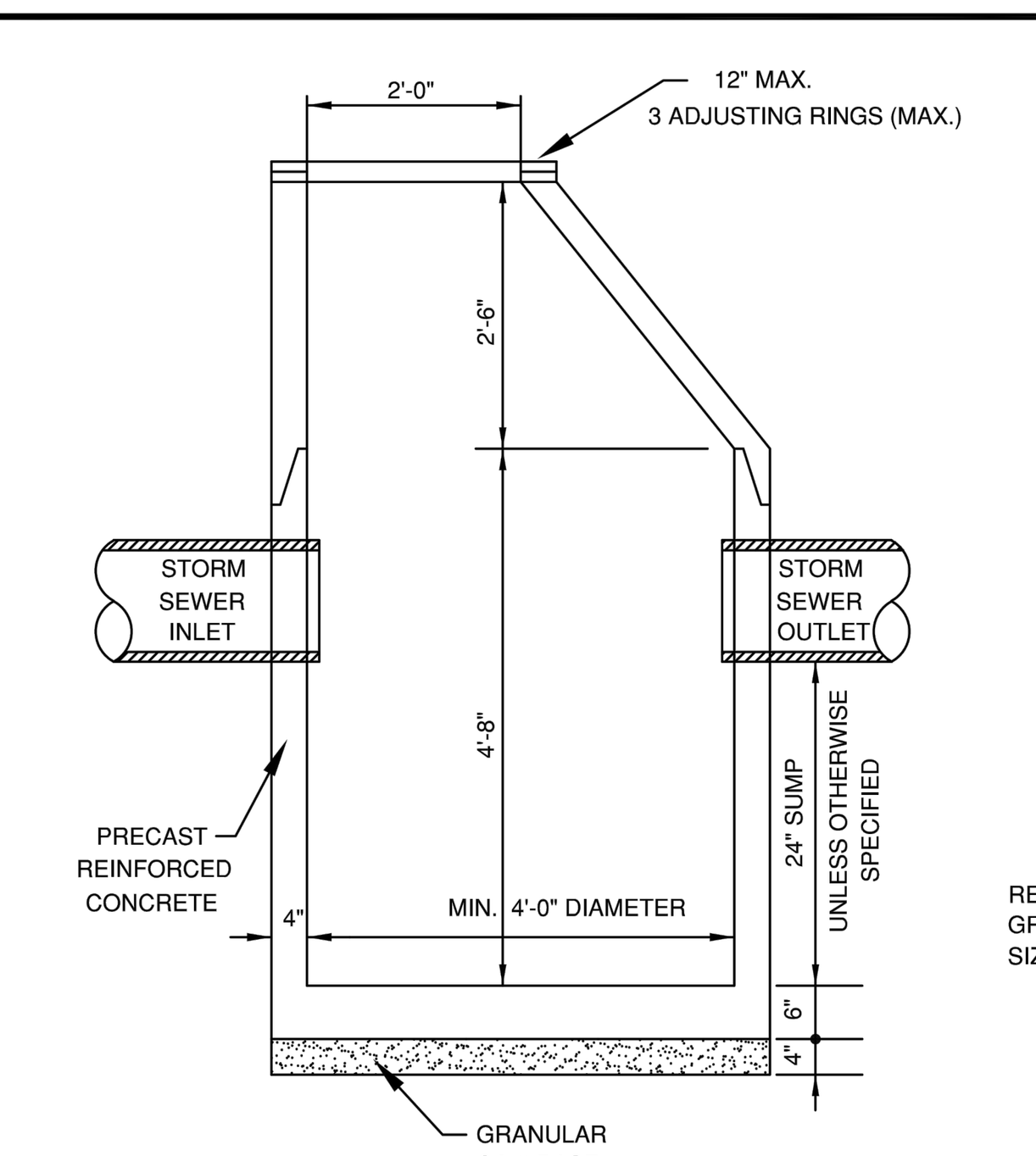
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	FRAME AND OPEN LID STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-24-00 AUTOCAD FILE; S.W. 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



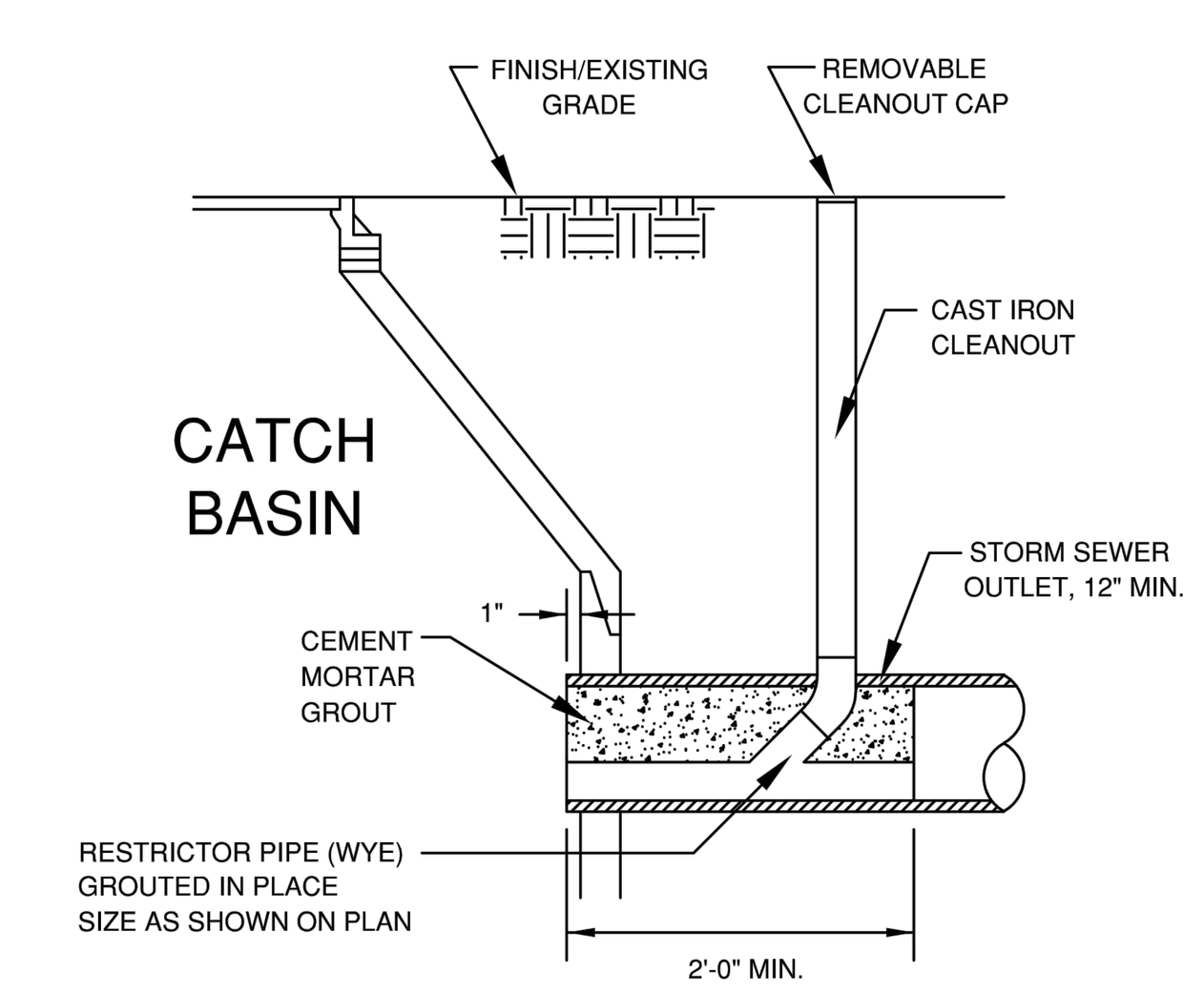
(*) OR NEENAH CATALOG R-1713
SHOP DRAWING NF-1015 T45

√ 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



CATCH BASIN (TYPE A)



RESTRICTOR CLEANOUT DETAIL

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 SDR-26, 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. 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	CATCH BASIN & RESTRICTOR CLEANOUT STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS; FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS: S.W. 2-29-00 AUTOCAD FILE; S.W. 2-27-03 PER COMMENTS; K.R.G. 9-11-06 AUTOCAD FILE; K.A.G. 12-11-18 SUMP DEPTH	DETAIL NO. ST-2

No.	Date	Revision
1	04-01-2020	Village Review

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TYPICAL DETAILS

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet C7.0 / C9

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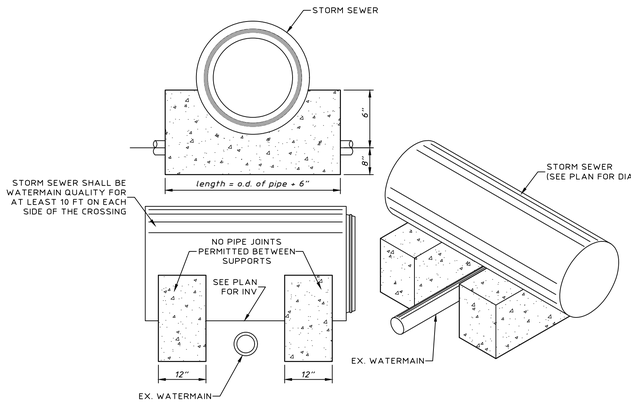
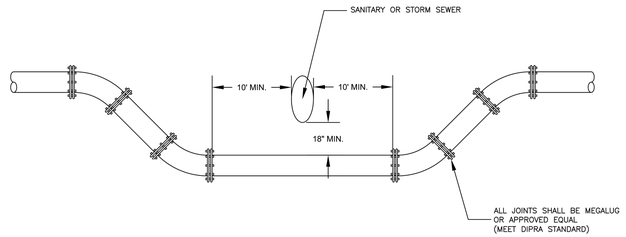
Plot Date: Apr 03, 2020 - 1:08pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Title Sheet And Notes.dwg



CONCRETE CRADLE



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.
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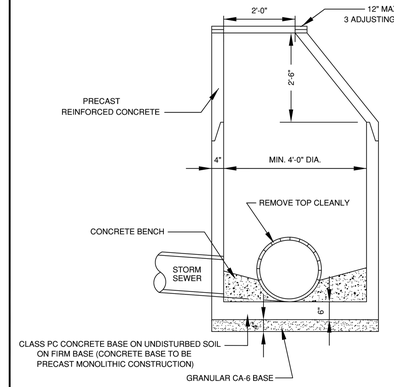

NOTE:
1. STORM SEWER PIPES IN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE AS PER SECTION 550 OF THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
2. STORM SEWER ON PRIVATE PROPERTY MAY BE PVC-SDR26, DUCTILE IRON, OR RCCP.
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4. JOINTS FOR RCCP SHALL BE PREFORMED, FLEXIBLE, O-RING GASKET TYPE OR TYLOX SUPER SEAL GASKET (ASTM C-361).
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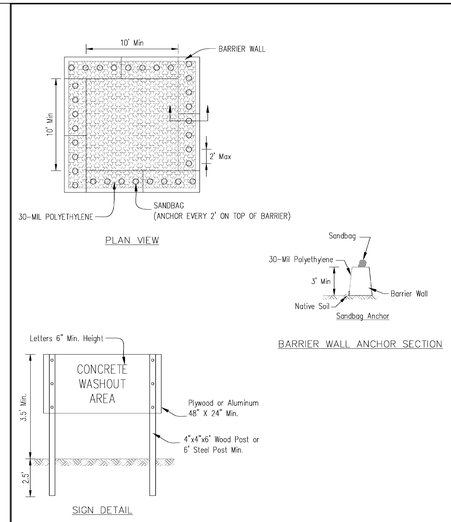
VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
				S.W.	9-27-01 PER COMMENTS	
			FILE LOCATION	S.W.	2-27-03 PER COMMENTS	
			T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	ST-4
				K.A.G.	1-04-18 NOTES ADDED	

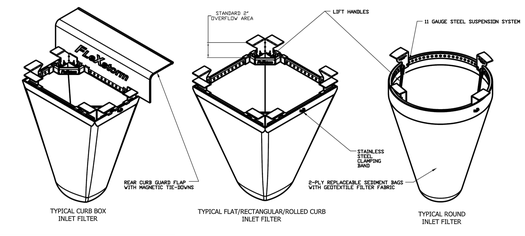


NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

No.	Description	Date
1	REVISED PER VILLAGE COMMENTS	8/27/20

Designed:	
Drawn: B. JOHNSON	8/20
Checked:	
Approved:	

TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL



IPP FLEXstorm Inlet Filter Specifications			
Material Property	Test Method	Value (min ave)	
- Inner Filter Bag Specs (2 ft² min vol)		Non-Woven	Woven Mono
Grab Tensile:	ASTM D 4632	100 lbs.	200 lbs
Puncture Strength:	ASTM D 4833	55 lbs	90 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs	75 lbs
UV Resistance:	ASTM D 4355	70% at 500 hrs	90%
App. Open Size (AOS):	ASTM D 4751	70 US# (.213 mm)	40 US# (.425 mm)
Permittivity:	ASTM D 4491	2.0 /sec	2.5 /sec
Water Flow Rate:	ASTM D 4491	145 gpm/ft²/ft	185 gpm/ft²/ft
- Polyester Outer Reinforcement Bag Specifications:			
Weight:	ASTM D 3776	4.55 oz/syd +/- 15%	
Thickness:	ASTM D 1777	.040 +/- .005	
- Frame Construction:			
A36 Structural Steel; 11 Gauge; Zinc Plated	ASTM A 570	Tensile Strength > 58,000 psi; Yield Strength > 36,000 psi	

INSTALLATION
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER INTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

OR VILLAGE OF WHEELING APPROVED EQUAL

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC
1635 TONNE RD ELK GROVE, IL
WWW.INLETPROTECTION.COM
SALES@INLETPROTECTORS.COM
(847) 364-5052 PX
SALES@INLETPROTECTORS.COM

DRAWING			
SCALE			
DATE			
BY			
DESIGN			
	C	IPP FLEXSTORM SPECS	REV
	DWG	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.
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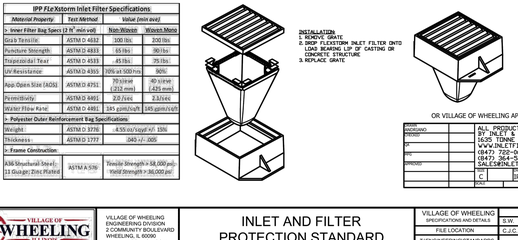
			FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	ERO-1
			T:\ENGINEERING\STANDARDS			



NOTES:
1. BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE 8 OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK.
2. EXCAVATED MATERIAL MAY BE USED UP TO FINAL GRADE IN NON-PAVED AREAS
3. GRAD. NO. CA-7, 8, 11 OR 13 GRAVEL OR LIMESTONE, TO SPRING LINE FOR RIGID PIPE OR 12" ABOVE TOP OF PVC PIPE METHOD 1 COMPACTION PER I.D.O.T. ARTICLE 550.07
4. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" OF STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER
5. TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
6. MAXIMUM TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET
   = 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET
7. STREET CROSS SECTION MUST MATCH THE EXISTING ROADWAY OR THE VILLAGE OF WHEELING TYPICAL STREET CROSS SECTION. WHICHEVER IS GREATER.
   VILLAGE OF WHEELING TYPICAL STREET CROSS SECTIONS ARE OUTLINED BELOW:

ARTERIAL ROADWAY:
- 6" AGGREGATE BASE COURSE, CA-6 GRADE B OR 9 VIRGIN STONE
- 8" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)
- 0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
- 2" HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50.

LOCAL ROADWAY:
- 6" AGGREGATE BASE COURSE, CA-6 GRADE B OR 9 VIRGIN STONE
- 5" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)
- 0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
- 2" HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50.

8. 6" OF COMPACTED TOP SOIL

VILLAGE OF WHEELING ILLINOIS	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	TRENCH BACKFILL STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
				S.W.	9-18-01 PER COMMENTS	
			FILE LOCATION	S.W.	11-19-04 NO POLY WRAP	
			T:\ENGINEERING\STANDARDS	C.J.C.	07-20-06 AUTOCAD FILE	
				K.A.G.	03-07-17 STREET SECTIONS	UTL-1
				K.A.G.	7-06-18 BACKFILL MATERIAL	

No.	Description	Date
1	Village Review Revision	04-01-2020

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Illinois Professional Design Firm License No.: 184-003152
www.haegerengineering.com

TYPICAL DETAILS

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet C7.1 / C9

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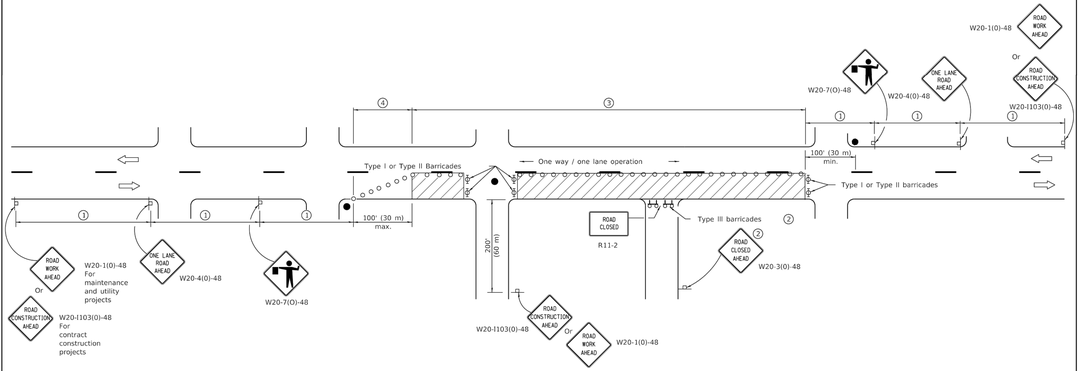
Plot Date: Apr 03, 2020 - 1:08pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Title Sheet And Notes.dwg



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

1. Refer to SIGN SPACING TABLE for distances.
2. For approved sideroad closures.
3. Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
4. Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011 — ENGINEER OF SAFETY ENGINEERING

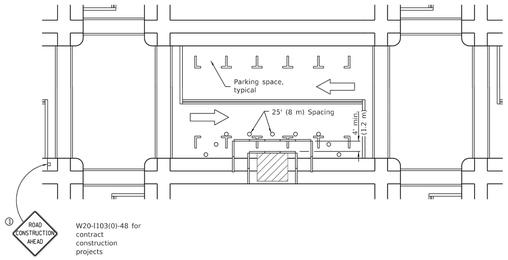
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT

D.E.P.T. CIRCLE

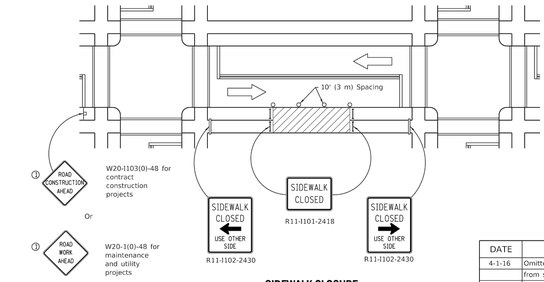
DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501-06



SIDEWALK DIVERSION



SIDEWALK CLOSURE

① Omit whenever duplicated by road work traffic control.

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED April 1, 2016 — ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016 — ENGINEER OF DESIGN AND ENVIRONMENT

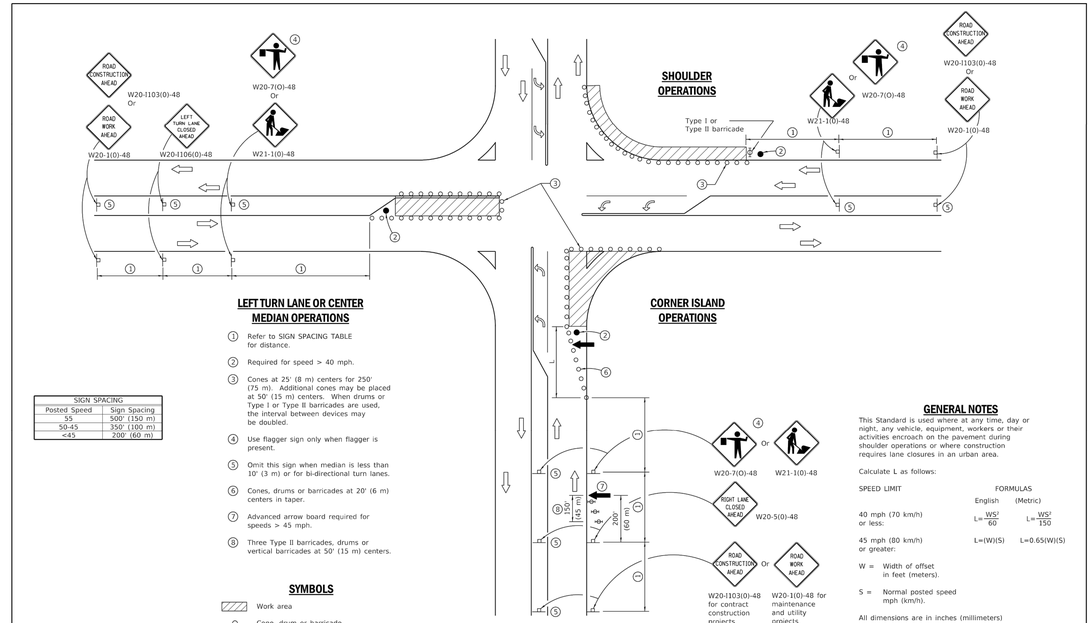
D.E.P.T. CIRCLE

DATE	REVISIONS
4-1-16	Omitted orange safety fence
	from standard as this is
	covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of
	plan views. Renamed Std.

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

1. Refer to SIGN SPACING TABLE for distance.
2. Required for speed > 40 mph.
3. Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
4. Use flagger sign only when flagger is present.
5. Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
6. Cones, drums or barricades at 20' (6 m) centers in taper.
7. Advanced arrow board required for speeds > 45 mph.
8. Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED April 1, 2016 — ENGINEER OF SAFETY ENGINEERING

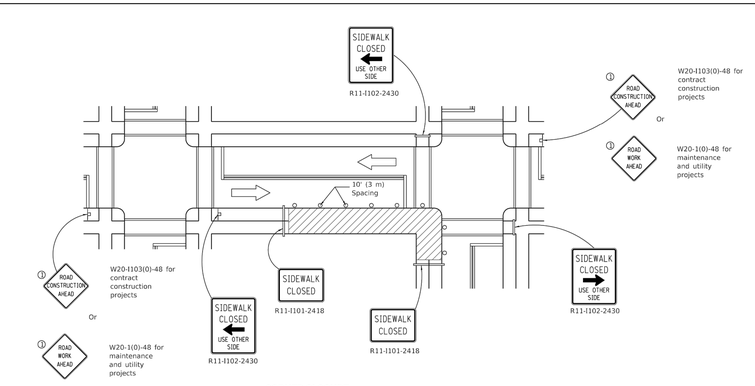
APPROVED April 1, 2016 — ENGINEER OF DESIGN AND ENVIRONMENT

D.E.P.T. CIRCLE

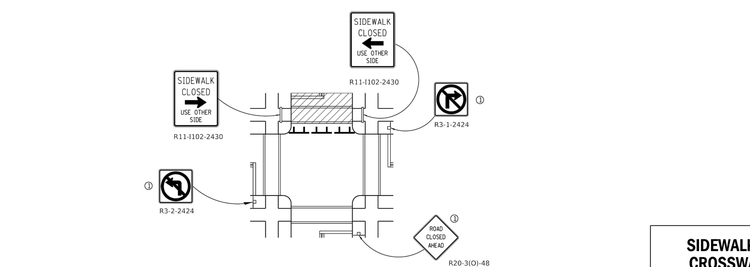
DATE	REVISIONS
4-1-16	Corrected sign number for
	LEFT TURN LANE CLOSED
	AHEAD.
1-1-14	Added devices at arrow
	board upstream from taper.
	Rev. workers sign number.

URBAN LANE CLOSURE, MULTILANE INTERSECTION

STANDARD 701701-10



CORNER CLOSURE



CROSSWALK CLOSURE

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

STANDARD 701801-06

No.	Revision	Date
1	Village Review	04-01-2020

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www.haegerengineering.com

TYPICAL DETAILS

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS

WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet C7.2 / C9

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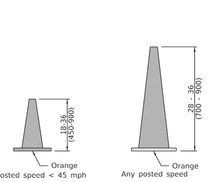
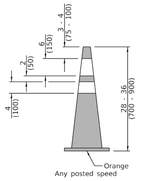
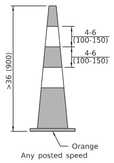
Plot Date: Apr 03, 2020 - 1:08pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Title Sheet And Notes.dwg



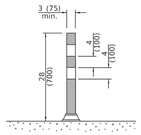
DAYTIME USE

CONES

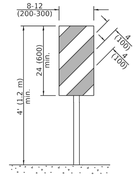




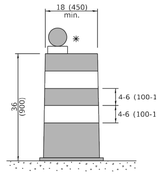
DAY OR NIGHTTIME USE



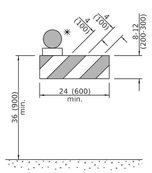
TUBULAR MARKER



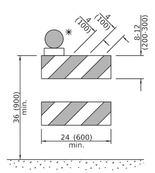
VERTICAL PANEL
POST MOUNTED



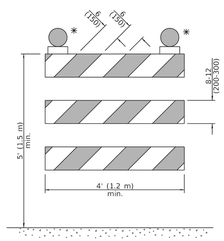
DRUM



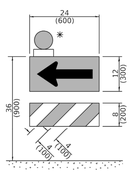
TYPE I BARRICADE



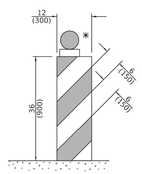
TYPE II BARRICADE



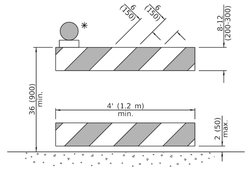
TYPE III BARRICADE



DIRECTION INDICATOR BARRICADE



VERTICAL BARRICADE



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

✳ Warning lights (if required)

GENERAL NOTES

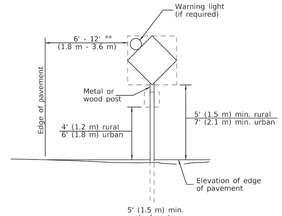
All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

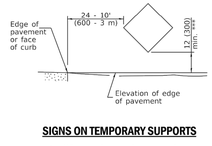
Illinois Department of Transportation
APPROVED January 1, 2019 — ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BD 1-1-13

TRAFFIC CONTROL DEVICES
(Sheet 1 of 3)
STANDARD 701901-08



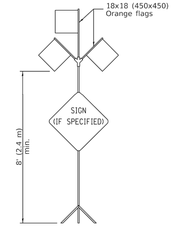
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



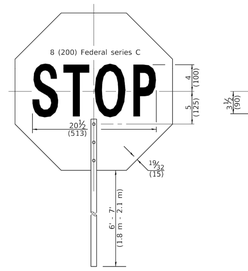
HIGH LEVEL WARNING DEVICE



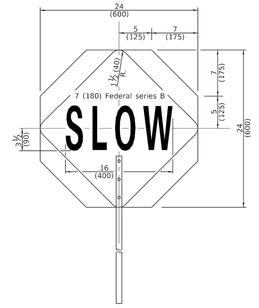
W12-I103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES — G20-I104(0)-6036

END CONSTRUCTION — G20-I105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



W21-II5(0)-3618
R2-1-3648
R10-I108p-3618 ****
R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.

Illinois Department of Transportation
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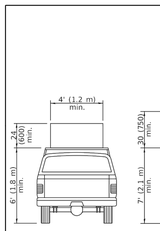
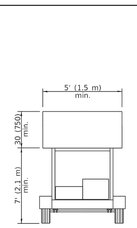
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BD 1-1-13

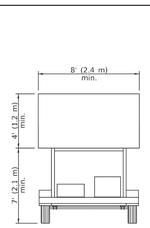
TRAFFIC CONTROL DEVICES
(Sheet 2 of 3)
STANDARD 701901-08



TYPE A ROOF MOUNTED

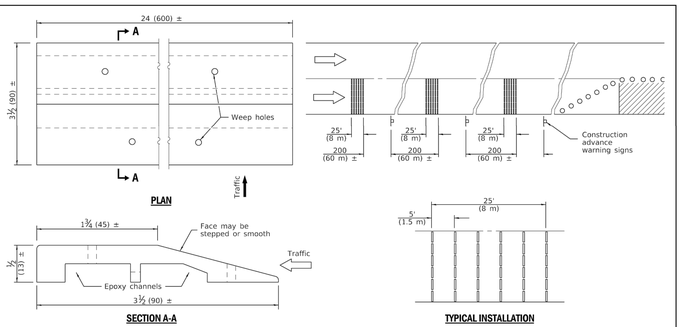


TYPE B ROOF OR TRAILER MOUNTED



TYPE C TRAILER MOUNTED

ARROW BOARDS

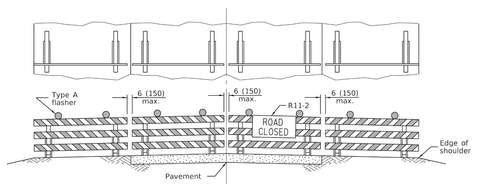


PLAN

SECTION A-A

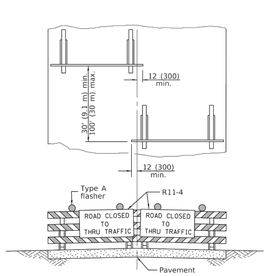
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

Illinois Department of Transportation
APPROVED January 1, 2019 — ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BD 1-1-13

TRAFFIC CONTROL DEVICES
(Sheet 3 of 3)
STANDARD 701901-08

Village Review | No. 1 | Date 04-01-2020 | Revision

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TYPICAL DETAILS

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager:	KML
Engineer:	KML
Date:	02-21-2020
Project No.	19-185
Sheet	C7.3 / C9

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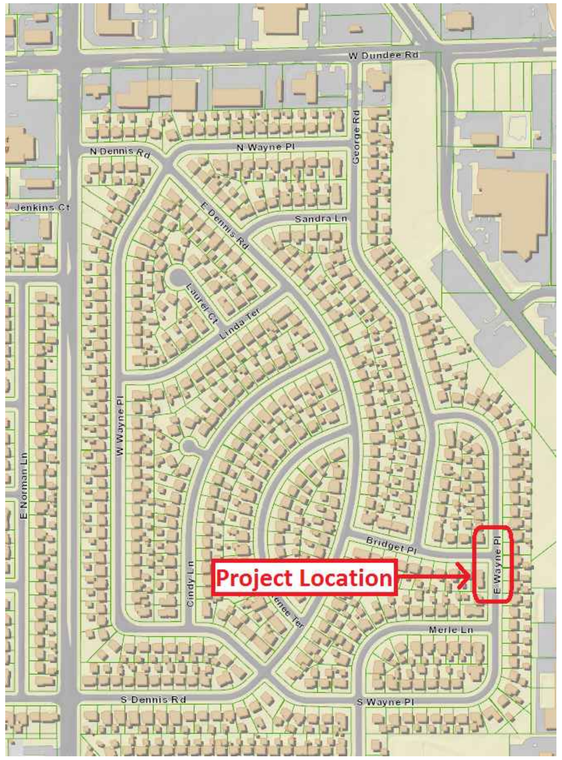
Plot Date: Apr 03, 2020 - 1:08pm Plotted By: kim-l
File Name: P:\2019\19185\Drawings\Final Engineering\19185 Title Sheet And Notes.dwg

Village of Wheeling
Bridget and Wayne Storm Sewer Improvements

LEGEND		
	EXISTING	PROPOSED
STORM SEWER		
STORM MANHOLE		
CATCH BASIN		
SANITARY SEWER		
SANITARY MANHOLE		
WATER MAIN	W	
ABANDONED WATER MAIN	OLD WM	
VALVE VAULT		
FIRE HYDRANT		
GAS MAIN/SERVICE	G	
SIGN		
LIGHT POLE		
TREE		
TREE (PINE)		

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION

PROJECT LOCATION MAP



Locates

CALL JULIE 1-800-892-0123
WITH THE FOLLOWING:
COUNTY COOK
CITY-TOWNSHIP WHEELING
SEC. & 1/4 SEC.NO. * SW * SEC. 2, R11E
48 HOURS BEFORE YOU DIG.
EXCLUDING SAT., SUN., & HOLIDAYS

INDEX	
1	COVER PAGE
2	NOTES
3	EXISTING CONDITIONS/DEMO Plan
4	UTILITY PLAN
5	STREET GRADING
6	STANDARD DETAILS

President
Patrick Horcher
Board of Trustees
Kenneth R. Brady
Joe Vito
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Ray Lang
David Vogel
Mary Papantos
Village Clerk
Elaine E. Simpson
Village Manager
Jon Sfondilis
Director of Public Works
Mark Janeck
Village Engineer
Jon Tack

VILLAGE OF WHEELING ILLINOIS
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090
(847) 459-2600

No.	Date	Nature of Revision	Chkd.

File Name

Design	KAG	
Drawn	KAG	
Chkd.	JMT	
Scale	NTS	
Plot Date	3/27/2018	
CAD User	Kyle Goetzelmann	
Model	Default	

Cover Page

Proj. No: 18.4500.01
Dated: 3/27/2018
Sheet: 1 of 6
Drawing No. 1

Summary of Quantities

Item Number	Pay Item	Unit	Quantity
1	Storm Sewer Structure Removal	EACH	3
2	Cap Abandoned Storm Sewer	EACH	4
3	Storm Sewer Pipe Removal	LF	20
4	18" PVC C900 Storm Sewer Installation	LF	30
5	12" RCP Storm Sewer Installation	LF	54
6	4' Diameter Type A Catch Basin, East Jordan 7220 Frame, M2 Grate	EACH	2
7	4' Diameter Type A Catch Basin, East Jordan 7505 Frame, M1 Grate	EACH	2
8	6' Diameter Storm Manhole, East Jordan 7220 Frame, M2 Grate	EACH	2
9	Adjusting Water Service, 3/4"	EACH	1
10	2" Hot Mix Asphalt Surface Remove and Replace	SY	216
11	5" Binder Course Remove/Replace	SY	33
12	Concrete Driveway Remove/Replace	SF	112
13	6" Concrete Sidewalk Remove/Replace	SF	130
14	Detectable Warnings	SF	16
15	Topsoil Furnish and Place, 4"	SF	400
16	Sodding, Salt Tolerant	SF	400
17	M3.12 Concrete Curb Removal	LF	97
18	M3.12 Concrete Curb Installation	LF	47
19	Modified Curb Drainage Structure	EACH	5
20	Water Main Conflict Repair	L. Sum	1
21	Traffic Control and Protection	L. Sum	1
22	Construction Layout	L. Sum	1
23	Construction Contingency	L. Sum	1
24	Removal of Unsuitable Material	CY	10
25	Porous Granular Embankment	CY	10

General Notes

1) 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 Village standards and requirements shall govern.
2) 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 Village standards and requirements shall govern.
3) 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.
4) All elevations are based upon NAVD-88 datum.
5) The contractor shall refer to the restoration plans for complete information regarding planting locations, wetlands, walkways, walls, stream and pond shorelines, if applicable.
6) The contractor shall notify the Village of Wheeling Engineering (847) 459-2985 and Plumbing Inspector (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. Also contact j.u.l.i.e. 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 restore all disturbed off-site areas to at least a condition that existed prior to construction.
8) All existing field drainage tiles encountered or damaged during construction are to be restored to their original condition, properly rerouted and/or connected to the storm sewer system.
9) All independent testing to be paid for by the contractor. Testing to be at the discretion of the Village.
10) An iron pipe shall be found and located or set at each lot corner along the right of way.
11) The contractor shall maintain records for "as built" drawings which shall be submitted to the Village Engineer at the completion of this project.
12) The contractor shall provide video tape(s) or still pictures as required by the Village Engineer prior to beginning work.
13) One set of stamped approved plans shall be on site at all times during construction of the project.
14) It shall be the responsibility of the contractor to call at least 48 hours in advance and set up the necessary and proper inspection(s) for all work to be performed.
15) All unpaved areas of right-of-way are to be sodded. Restore right-of-way with six (6) inches of topsoil and sod.
16) Storm and sanitary sewer lines shall be cleaned of all construction debris and silt prior to Village inspection.
17) The contractor shall maintain and keep at the job site, an up to date set of "Record Drawings" showing all changes from the original plans. 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 cleanouts must be shown with tied dimensions. The elevation of all rims and inverts shall be verified by the contractor and shown on the "Record Drawings". The contractor shall deliver the "Record Drawings" to the engineer at the conclusion of the project, prior to any final inspections.
18) 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.
19) 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.
20) All obstructions that are not approved by the Village and which currently exist in the right-of-way shall be removed, which include all rocks and boulders.
21) All septic and/or well abandonments shall be in accordance with the requirement of the Village Engineer.
22) OSHA rules, regulations and requirements shall be strictly adhered to during the execution of all work to be performed under the approved drawings.
23) Any signs or mailboxes that are in conflict with the proposed work shall be removed and replaced in accordance with Village standards and incidental to the pay item for sanitary sewer (open cut). Mail service shall be maintained at all times.

Storm Sewer Notes

1) Storm sewer pipes in public right-of-way shall be C900 water quality pipe meeting AWWA C900 standards or reinforced concrete pipe as described in Section 550 of the Standard Specifications for Road and Bridge Construction. Any other storm pipe material in public right of way must be approved by the Village Engineer prior to installation.
2) Storm sewer pipes on private property may be PVC SDR-26, DIP, or RCCP. Other pipe material may be used with prior approval by the Village Engineer.
3) Minimum diameter of storm sewer shall be 12" unless approved otherwise.
4) No storm water shall be discharged to the sanitary sewer system.
5) All storm structures are to have open (grate) lids unless specified as having closed lids (c.l.). All closed lids shall have the words "Village of Wheeling - Storm" casted in it as per standard detail.
6) Rim grades for storm sewer structures located within the curb and gutter are flow line elevations. Elevations of flared end sections shall be interpreted at the invert of the flared end section.
7) A maximum adjustment of twelve inches (12") or three (3) concrete adjusting rings will be permitted for any structure.
8) Inlets shall be connected to a storm sewer after flowing through a catch basin and shall not discharge directly to the storm sewer.
9) All manholes shall be Type A with a minimum inside diameter of 48 inches.
10) All downspouts, footing drains, and outside drains shall discharge to the storm sewer or over ground as approved by the Village of Wheeling.
11) All sump pump drain tile discharges shall be routed to the storm sewer system. Sump pump service connections shall be four (4) inch pvc SDR 26 conforming to ASTM D2751 or ASTM D3034 at a minimum slope of 2% and shall be air gapped. Minimum cover shall be two (2) feet, wherever possible.
12) All interior floor drains must discharge to the sanitary sewer.
13) All objectionable waste containing grease, fats and/or oils shall discharge to an exterior grease interceptor or grease basin, with "water-tight" covers, before discharging into the sanitary sewer, including but not limited to restaurant and food preparation facilities. Automatic dishwasher and effluent domestic waste shall not discharge through the grease interceptor.

Paving

1) Base course shall be aggregate base course, type B (crushed limestone, grade 8), conforming to the standard specifications (see plans for thickness).
2) Surface course and binder course shall be bituminous concrete. See specs for mix design and thickness.
3) Curb and gutter, barrier curb and sidewalk shall be Portland Cement Concrete with air entrainment of 5% 1%. A six (6) bag mix shall be used. Maximum allowable slump is three (3) inches. Curing compound shall be applied after finishing. Curb backfill shall be incidental to the construction of the curb. Locations of water and sewer service lines shall be clearly marked on all new curbs.
4) A 3/4 inch fiber expansion joint shall be installed when the curb abuts a sidewalk or existing curb.
5) Curb and gutter and barrier curb shall have sawed contraction joints at maximum intervals of twenty feet (20) and 3/4 inch fiber expansion joint at maximum intervals of sixty (60) feet.
6) Subgrade shall be finished to 0.1 foot of design subgrade elevations by the earthwork contractor. Fine grading for pavements and sidewalks shall be the responsibility of the paving contractor.
7) The base course shall be primed at the rate of 0.25 to 0.50 gallons per square yard with liquid asphalt conforming to I.D.O.T. standards and shall be appropriate for prevailing weather conditions. Prime coat and cleaning of the existing surface shall be considered as incidental to the contract work.
8) Prior to placement of any pavement including curbs, the subgrade shall be proof rolled with a fully loaded tandem axle dump truck (minimum 20 tons). Proof rolling shall be witnessed by the materials consultant and the Village Engineer. Proof rolling shall also be required on the base material as well. The density of the subgrade base and base material as well as the bituminous material shall also be tested by the materials consultant. The test results shall be provided to the engineer for his use in determining the adequacy of the pavement design.
9) All structures such as manholes, valve boxes, etc. shall be adjusted to meet the new surface elevation. Furthermore, structures such as manholes, valve boxes, etc. that lies within Portland Cement Concrete slab areas (i.e., driveways, etc.) shall be **boxed out** by means of a **cut out** area with full depth joints.
10) All pavement, walk and curb removal shall be accomplished by saw cutting prior to removal.
11) All pavement areas such as driveways shall have a two (2) inch diameter galvanized steel conduit buried beneath them at a depth of 24" (minimum) for future street light cable(s). The conduit shall extend a minimum of three (3) feet beyond the back of curb or edge of the pavement if no curb exists.
12) All drives in the right-of-way of public streets and in industrial and truck loading areas shall be a minimum of eight (8) inch thick Portland cement concrete on a four (4) inch compacted granular base.
13) Saw cut existing curb at limit of the work and replace with depressed curb as required. Drill and dowel all new curb, including depressed curb, to existing as required.
14) All driveway material thicknesses shall meet the minimum pavement standard requirements of the Village of Wheeling.
15) Driveway apron removal and 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.
16) All dimensions for curbs are to back of curb, unless otherwise specified.
17) The use of cold-patch for temporary pavement patching shall be approved by the Village Engineer **prior** to placement.

General Underground Utilities

1) Trench backfill shall be provided under and within two feet (2') of all existing and proposed pavement.
2) All manholes and similar structures must be a minimum of 48" diameter, valve vaults must be a minimum of 60" diameter, unless approved otherwise.
3) For modification or repair of all sewers; addition of, or repair of, sewer clean outs, **non shear** couplings shall be used in connection of sewer pipes with prior approval from Village Engineering Division.
4) A minimum ten feet (10') horizontal separation shall be maintained between watermain and sewer or drain lines unless precluded by local conditions. When the watermain is located closer than ten feet (10') horizontally or the invert of the watermain is located closer than eighteen inches (18") vertically above the crown of any sewer or drain line, then:

   The sewer or drain line shall be constructed of pipe equivalent to watermain standards and shall be pressure tested to assure water tightness in accordance with the Illinois Environmental Protection Agency (I.E.P.A.) requirements.
   When a watermain crossing over a sewer or drain line is closer than eighteen inches (18") vertically above the crown of that sewer or drain line, then that sewer or drain line shall be constructed according to the requirements listed in item 4) above.
5) If the watermain passes under a sewer or drain line, the following conditions shall be met: a vertical separation of eighteen inches (18") between the invert of the sewer or drain line and the crown of the watermain shall be maintained with support provided for the sewer or drain line(s) to prevent any moving or settling, rupture or breaking, and sewer or drain line shall be constructed as described in item 4) above.
6) The cost of all required testing of underground utilities shall be incidental to the construction cost of the same.
7) The contractor shall mark location of the ends, if necessary, of any sanitary, water, and storm services with buried 4" x 4" wood posts extending a minimum of three (3) feet out of the ground and painted red, blue, and green respectively, with appropriate signs attached stating "caution B-box do not remove until landscaping is complete."
8) All storm, sanitary and watermain services to end at R.O.W. with proper termination for subdivision construction.
9) When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole. The sewer shall be circular saw-cut by proper tools ("sewer-tap" machine or similar) and proper installation of hub-wye saddle or hub-tee saddle.
10) Sewer connections to an existing structure shall be machine cored.
11) A flexible rubber boot shall be used at all sanitary sewer manhole penetration connections.
12) Eccentric cone sections shall be used on all manholes, catch basins, vaults, etc. unless approved otherwise by the Village Engineer.
13) All sewer construction requires stone bedding 1/4" to 1" in size, (I.D.O.T. equivalent CA-11, CA-13) with a minimum thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches, nor greater than eight (8) inches.
14) All sewer construction shall conform to the approved permit plans unless revisions have been approved by the Village, as well as any and all other necessary agencies.
15) Structures shall have a maximum of twelve inches (12") of adjustment with any combination up to a maximum of three (3) rings.
16) Protect and/or cover all pipes and underground structures until final grading, paving and landscaping are complete.

Earthwork Sediment and Erosion Control

1) All construction activities that involves earthwork shall meet the National Pollutant Discharge Elimination System Phase II requirements:
   a) Submittal of a Notice of Intent (NOI) to IEPA.
   b) Possession of a completed and signed Stormwater Pollution Prevention Plan (SWPPP) and a graphic Erosion and Sediment Control (ESC) plan.
   c) Implementation of the SWPPP.
   d) Submittal of an Incidence of Noncompliance (ION) if an event occurs.
   e) Weekly reports after ½" rainfall or 5" snowfall.
   f) Documentation of changes to ESC plan
   g) Submittal of a Notice of Termination (NOT) when final stabilization is achieved.
2) Any wetland mitigation shall begin prior to any grading work and shall be in accordance with the approved mitigation permit plan and requirements.
3) In order to protect and ensure against flooding, all top of foundations shall be set a minimum of one (1) foot above the high water level of adjacent stormwater management facilities such as retention/detention ponds.
4) The contractor shall maintain existing positive drainage from off-site at all times during construction.
5) Within the limits of proposed grading the soil shall be compacted to not less than the following percentages of modified proctor dry density in accordance with ASTM D 1557-78:
   a) Under structures. Building slabs, steps and pavements. Compact 6 inch maximum lifts of subgrade. Backfill or fill material at 95% modified proctor dry density.
   b) Under walkways. Compact 6 inch maximum lifts of dry subgrade, backfill, or fill material at 95% modified proctor dry density.
   c) Under lawn or unpaved areas. Compact 6 inch maximum lifts of subgrade, backfill, or fill material at 85% modified proctor dry density.
6) All erosion control work shall comply with "Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control."
7) Stripping of vegetation, grading or other soil disturbance, especially in designated wetland areas, shall be done in a manner which will minimize soil erosion, and shall be in accordance with the approved drawings, mitigation and permit requirements.
8) The contractor shall take precautionary measures to minimize earthwork in areas where trees are to be saved as shown on the plans or determined in the field.
9) The extent of the area which is exposed and free of vegetation and the duration of its exposure shall be kept within practical limits as directed by the Village Engineer.
10) Sedimentation shall be retained on site. Straw bales and sediment fence shall be installed along the perimeter of all regraded areas or as required to prevent sediment from entering and/or leaving the site.
11) Straw bales for construction of erosion control devices shall be new, firm and wire or nylon bound livestock feed grade. Each bale shall be embedded in the soil a minimum of four inches. Bales shall be securely anchored in place by stakes or rebars driven through the bales.
12) Dust produced from the site shall be kept to a minimum during dry periods by spraying water as required to the Village Engineer's satisfaction and is to be considered incidental.
13) All mud shall be removed from all tires before leaving the site and the roads shall be kept clean and clear of mud and debris at all times.
14) Culverts and drainage ditches shall be kept clean and clear of obstructions during the construction period.
15) Straw bales and silt fences shall be inspected frequently and maintained or replaced as required to maintain both their effectiveness and integrity. The underside of bales shall be kept in close contact with the earth below at all times to prevent water from washing beneath them.
16) Water courses and drainage swales adjacent to construction activities shall be monitored as necessary, for evidence of silt intrusion and other adverse environmental impacts. Any problems or deficiencies shall be corrected immediately upon their discovery.
17) Sod all unpaved areas of parkways, right-of-ways and front yards to rear wall of the building. Any and all **other** site seeding **may** be used, in some instance particularly for the back yard, only with prior approval by the Village Engineer.
18) The contractor shall install all erosion control items prior to commencement of any work.
19) The contractor shall install temporary orange fence around all trees to remain and wetland areas to be mitigated.

VILLAGE OF WHEELING ILLINOIS
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090
(847) 459-2600

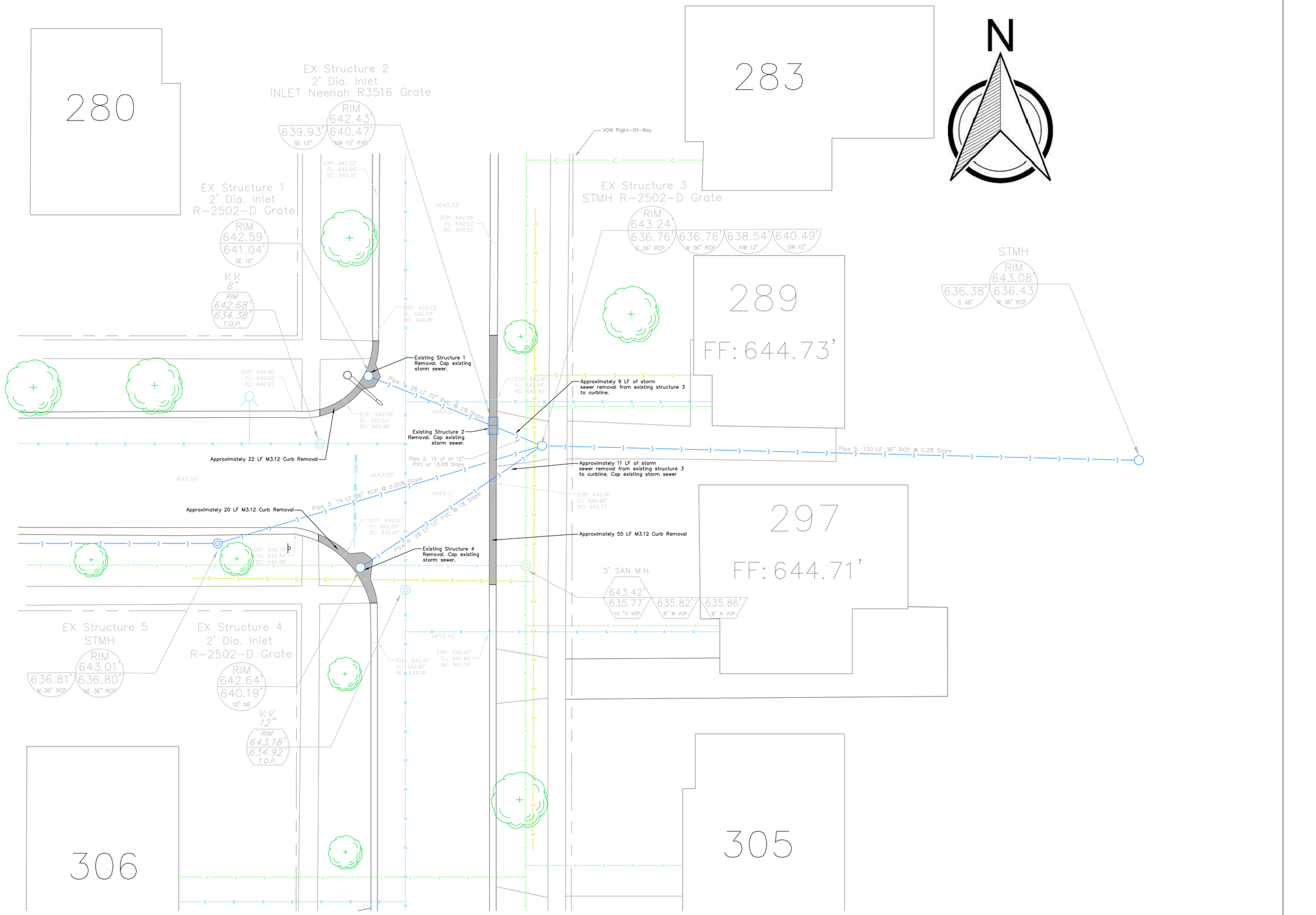
No.	Date	Nature of Revision	Chkd.

File Name

Design	KAG	
Drawn	KAG	
Chkd.	JMT	
Scale	NTS	
Plot Date	3/27/2018	
CAD User	Kyle Goetzelmann	
Model	Default	

Notes

Proj. No: 18.4500.01
Dated: 3/27/2018
Sheet: 2 of 6
Drawing No. 2



VILLAGE OF WHEELING ILLINOIS
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090
(847) 459-2600

No.	Date	Nature of Revision	Chkd.

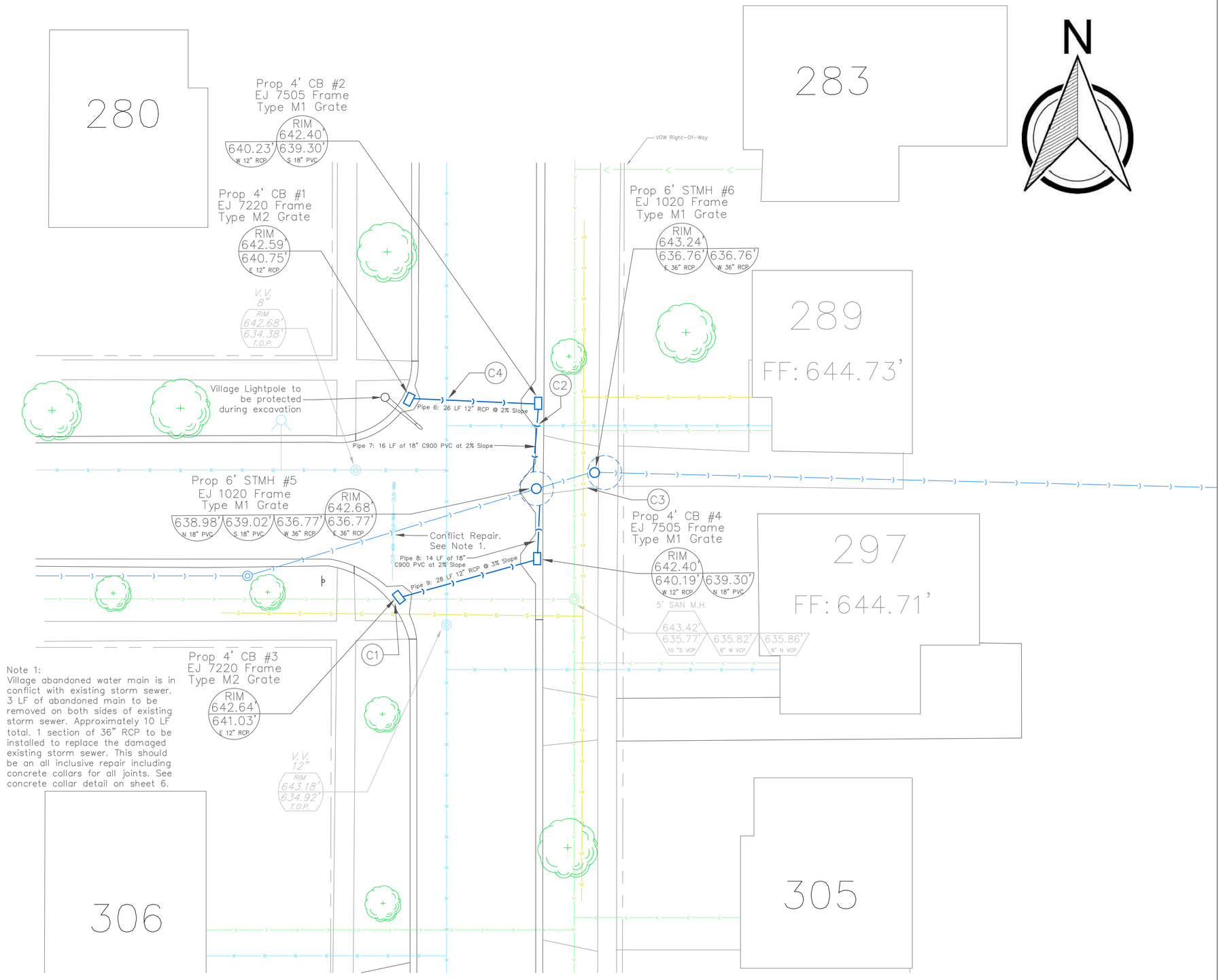
File Name

Design	KAG
Drawn	KAG
Chkd.	JMT
Scale	1"=10'
Plot Date	3/27/2018
CAD User	Kyle Goetzelmann
Model	Default

Existing Conditions and Demolition Plan

Proj. No: 18.4500.01
Dated: 3/27/2018
Sheet: 3 of 6
Drawing No. 3

Utility Crossing Table			
Crossing Location	Pipe 1	Pipe 2	Separation
C1	Top 8" Sanitary: 636.53'	Bottom of CB: 638.03'	1'-6"
C2	Water Service Elev. Unknown	Bottom of 18" Storm: 639.25	Unknown
C3	Top 3" Gas Main: 639.43'	Top of 36" Storm: 639.71'	Field Verify Conflict
C4	Top 12" WM 634.92'	Bottom of 12" Storm: 640.34'	5'-5"



Note 1:
Village abandoned water main is in conflict with existing storm sewer. 3 LF of abandoned main to be removed on both sides of existing storm sewer. Approximately 10 LF total. 1 section of 36" RCP to be installed to replace the damaged existing storm sewer. This should be an all inclusive repair including concrete collars for all joints. See concrete collar detail on sheet 6.

VILLAGE OF WHEELING ILLINOIS
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WHEELING, ILLINOIS 60090
(847) 459-2600

No.	Date	Nature of Revision	Chkd.

File Name

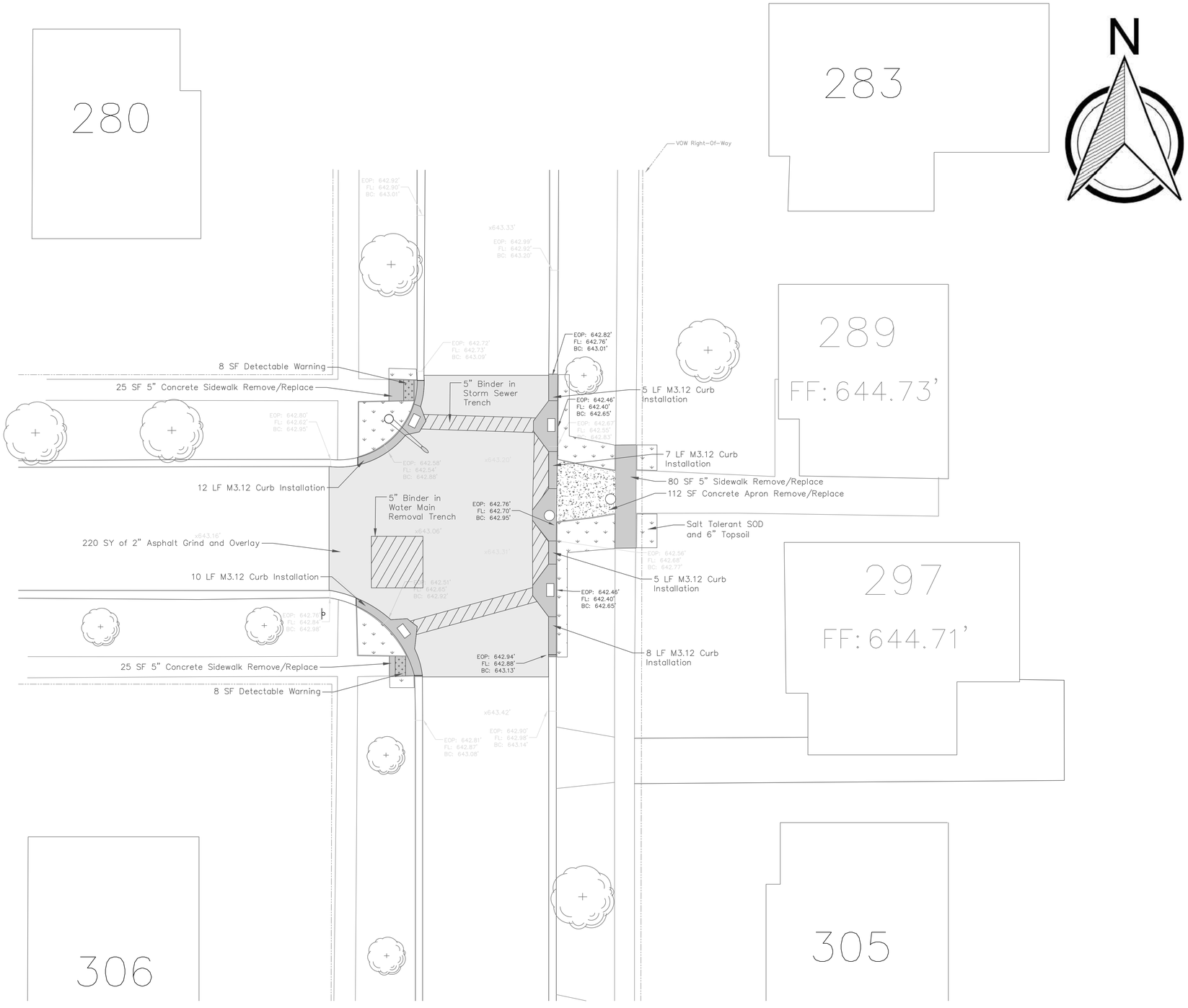
Design	KAG
Drawn	KAG
Chkd.	JMT
Scale	1"=10'
Plot Date	3/27/2018
CAD User	Kyle Goetzelmann
Model	Default

Utility Plan

Proj. No: 18.4500.01
Dated: 3/27/2018
Sheet: 4 of 6
Drawing No. 4

Legend

- 5" Binder Asphalt
- 3" CA 6 Stone Base
  6" Concrete Driveway
- 2" Hot Mix Surface Aspalt
- Concrete Curb and Sidewalk
- Topsoil and SOD Restoration



VILLAGE OF WHEELING ILLINOIS
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090
(847) 459-2600

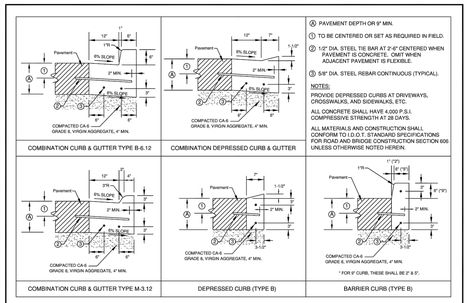
No.	Date	Nature of Revision	Chkd.

Design	KAG
Drawn	KAG
Chkd.	JMT
Scale	1"=10'
Plot Date	3/27/2018
CAD User	Kyle Goetzelmann
Model	Default

File Name

Grading/Paving Plan

Proj. No: 18.4500.01
Dated: 3/27/2018
Sheet: 5 of 6
Drawing No. 5



COMBINATION CURB & GUTTER TYPE B-6.12 | COMBINATION DEPRESSED CURB & GUTTER | BARRIER CURB (TYPE B)

* FOR 9" CURB, THESE SHALL BE 2'-9".

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	CURB AND GUTTER STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: B.W. 08/15/08 AUTOCAD FILE; FILE LOCATION: C:/IT/...; T:\ENGINEERING\STANDARDS: K.A.G. 11/21/18 AUTOCAD FILE	REVISIONS: B.W. 08/15/08 AUTOCAD FILE; C.J.C. 11/21/07 AUTOCAD FILE; K.A.G. 11/21/18 AUTOCAD FILE	DETAIL NO. R-12

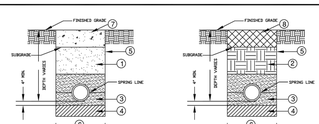
- ⑦ PAVEMENT DEPTH OR 9" MIN.
- ① TO BE CENTERED OR SET AS REQUIRED IN FIELD.
- ② 1/2" DIA. STEEL TIE BAR AT 2'-6" CENTERED WHEN PAVEMENT IS CONCRETE. OMIT WHEN ADJACENT PAVEMENT IS FLEXIBLE.
- ③ 5/8" DIA. STEEL REBAR CONTINUOUS (TYPICAL).

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.



NOTES:

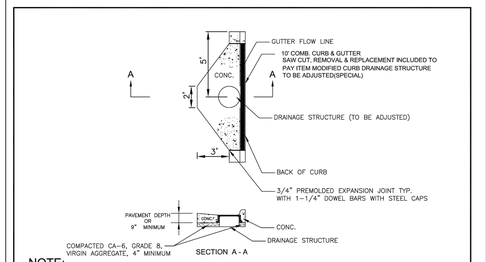
1. BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE B OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK.
2. EXCAVATED MATERIAL MAY BE USED UP TO FINAL GRADE IN NON-PAVED AREAS
3. MIND. NO. CA-7, 8, 11 OR 13 GRAVEL OR LIMESTONE, TO SPRING LINE FOR RIGID PIPE OR 12" ABOVE TOP OF PVC PIPE METHOD 1 COMPACTION PER I.D.O.T. ARTICLE 550.07
4. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" OF STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER
5. TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
6. MAXIMUM TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET
   = 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET
7. STREET CROSS SECTION MUST MATCH THE EXISTING ROADWAY OR THE VILLAGE OF WHEELING TYPICAL STREET CROSS SECTION, WHICHEVER IS GREATER, VILLAGE OF WHEELING TYPICAL STREET CROSS SECTIONS ARE OUTLINED BELOW:

ARTERIAL ROADWAY
- 4" AGGREGATE BASE COURSE, CA-6 GRADE B OR B VIRGIN STONE
- 4" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)
- 0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
- 1.5" HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50.

LOCAL ROADWAY
- 4" AGGREGATE BASE COURSE, CA-6 GRADE B OR B VIRGIN STONE
- 4" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)
- 0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
- 2" HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50.

8. 6" OF COMPACTED TOP SOIL

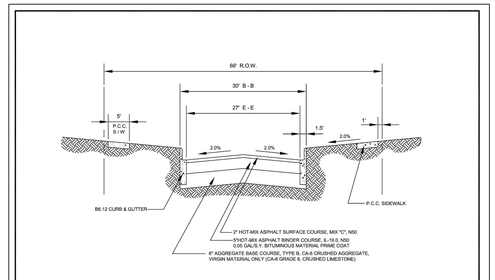
VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	TRENCH BACKFILL STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: B.W. 08/15/07 PER COMMENTS; FILE LOCATION: C:\IT\...; T:\ENGINEERING\STANDARDS: K.A.G. 04/30/19 STREET MATRIX; K.A.G. 05/06/19 BACKFILL MATRIX	REVISIONS: B.W. 08/15/07 PER COMMENTS; K.A.G. 04/30/19 STREET MATRIX; K.A.G. 05/06/19 BACKFILL MATRIX	DETAIL NO. UTL-1



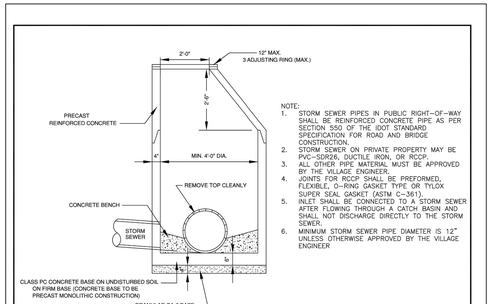
NOTE:

CONCRETE REPLACEMENT WILL BE MONOLITHIC POUR WITH EXPANSON MATERIAL AT CONSTRUCTION JOINT.
BACK FILL WEDGE AREA WITH CA-6 (GRADE B), CRUSHED LIMESTONE OR AS DIRRECTED BY ENGINEER.

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	MODIFIED CURB DRAINAGE STRUCTURE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: B.W. 08/15/07 PER COMMENTS; FILE LOCATION: C:\IT\...; T:\ENGINEERING\STANDARDS: K.A.G. 11/21/18 AUTOCAD FILE	REVISIONS: B.W. 08/15/07 PER COMMENTS; B.W. 03/10/08 ADDED BASE; K.A.G. 11/21/18 AUTOCAD FILE	DETAIL NO. R-15

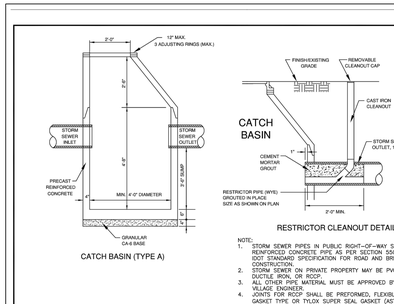


VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	TYPICAL LOCAL ROAD PAVEMENT SECTION STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: B.W. 03/07/08 AUTOCAD FILE; FILE LOCATION: C:\IT\...; T:\ENGINEERING\STANDARDS: K.A.G. 04/01/16 AUTOCAD FILE	REVISIONS: B.W. 03/07/08 AUTOCAD FILE; C.J.C. 11/21/07 AUTOCAD FILE; K.A.G. 04/01/16 AUTOCAD FILE	DETAIL NO.



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 ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	STORM MANHOLE STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: B.W. 01/31/07 PER COMMENTS; FILE LOCATION: C:\...; T:\ENGINEERING\STANDARDS: K.A.G. 11/04/19 NOTES ADDED	REVISIONS: B.W. 01/31/07 PER COMMENTS; J.J.P. 2-27-20 PER COMMENTS; K.A.G. 9/17/08 AUTOCAD FILE; K.A.G. 11/04/19 NOTES ADDED	DETAIL NO. ST-4

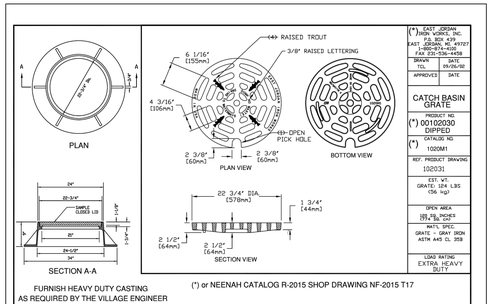


CATCH BASIN (TYPE A)

RESTRICTOR CLEANOUT DETAIL

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. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	CATCH BASIN & RESTRICTOR CLEANOUT STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: B.W. 2-20-08 AUTOCAD FILE; FILE LOCATION: C:\...; T:\ENGINEERING\STANDARDS: K.A.G. 11/04/19 NOTES UPDATED	REVISIONS: B.W. 2-20-08 AUTOCAD FILE; J.J.P. 2-27-20 PER COMMENTS; K.A.G. 9/17/08 AUTOCAD FILE; K.A.G. 11/04/19 NOTES UPDATED	DETAIL NO. ST-2



FURNISH HEAVY DUTY CASTING AS REQUIRED BY THE VILLAGE ENGINEER

(*) or NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17

(*) EAST JORDAN IRON WORKS, INC. P.O. BOX 439 EAST JORDAN, MI. 49727 1--800--874--4100 FAX 231--536--4458

DRAWN: TL | DATE: 11/16/98
APPROVED: | DATE:

CATCH BASIN GRATE

(*) PRODUCT NO. 001002030 DIPPED

(*) CATALOG NO. 1020M1

REF. PRODUCT DRAWING 102031

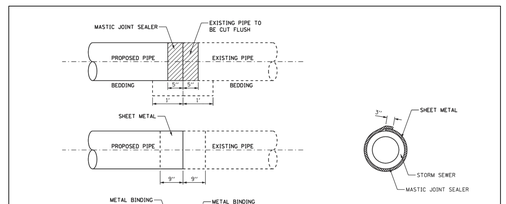
EST. WT. GRATE: 324 LBS. (156 kg)

OPEN AREA: 194 sq. inches

MATL. SPEC. GRATE -- GRAY IRON ASTM A48 CL. 35B

LOAD RATING: EXTRA HEAVY DUTY

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: B.W. 2-20-08 AUTOCAD FILE; FILE LOCATION: C:\...; T:\ENGINEERING\STANDARDS: K.A.G. 11/04/19 NOTES UPDATED	REVISIONS: B.W. 2-20-08 AUTOCAD FILE; J.J.P. 2-27-20 PER COMMENTS; K.A.G. 9/17/08 AUTOCAD FILE; K.A.G. 11/04/19 NOTES UPDATED	DETAIL NO. ST-6



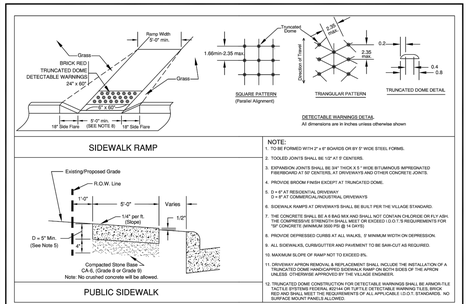
GENERAL NOTES

1. CUT THE EXISTING END OF PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 5" OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 1"x6" DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT SHEET METAL GRADE 19 OR GEOTEXTILE FABRIC CLASS B, 1.5' WIDE AND THE LENGTH OF THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" LONG.
5. WRAP THE SHEET METAL OR GEOTEXTILE FABRIC CLASS B AROUND THE PIPES, 9" ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF PIPE.
6. LAP THE SHEET METAL OR GEOTEXTILE FABRIC CLASS B, AT LEAST 3" AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE 2 METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL OR GEOTEXTILE FABRIC CLASS B AND THE PIPES.
9. PLACE CONCRETE AROUND THE JOINT.

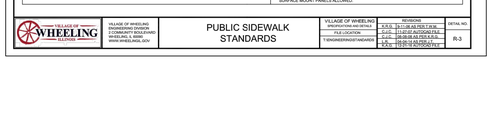
GENERAL NOTES

1. WHEN THE CONNECTION LOCATION SHOWN ON THE PLANS IS WITHIN 2' OF AN EXISTING JOINT, GO TO THE EXISTING JOINT.
2. CARE SHALL BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE PIPE. ALL DEBRIS THAT ENTERS THE PIPE MUST BE REMOVED. THE PIPE MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
3. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE FROM PROJECTING INTO THE EXISTING PIPE.

CONCRETE COLLAR DETAIL



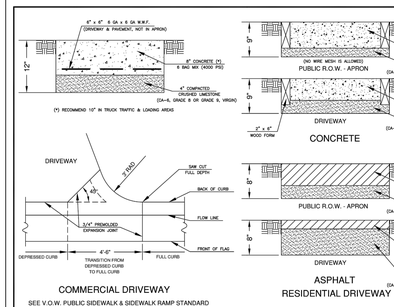
SIDEWALK RAMP



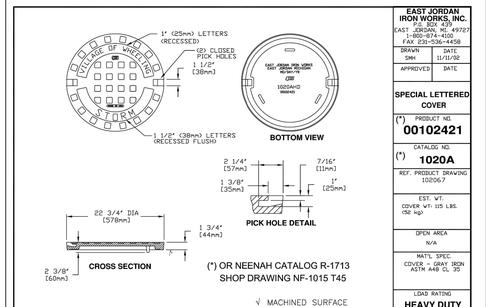
PUBLIC SIDEWALK

NOTE:
1. TO BE FORMED WITH 2" x 4" 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. 5' x 8' AT RESIDENTIAL DRIVEWAY
   5' x 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, 3" 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 6" CLASS SI CONCRETE BASE COURSE UNDER THE ENTIRE WIDTH AND DEPTH OF THE APRON UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER.
12. TRUNCATED DOME CONSTRUCTION FOR DETECTABLE WARNINGS SHALL BE ARMOR-TILE TACTILE SYSTEMS FEDERAL 4S124 OR TUFTILE DETECTABLE WARNING TILES, BRICK RED IN/SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE I.D.O.T. STANDARDS. NO SURFACE MOUNT PANELS ALLOWED.

VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	PUBLIC SIDEWALK STANDARDS	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: K.A.G. 11/21/18 AUTOCAD FILE; FILE LOCATION: C:\IT\...; T:\ENGINEERING\STANDARDS: K.A.G. 11/21/18 AUTOCAD FILE	REVISIONS: K.A.G. 11/21/18 AUTOCAD FILE; J.J.P. 08-08-08 AS PER B.W.; K.A.G. 11/21/18 AUTOCAD FILE	DETAIL NO. R-3



VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV	DRIVEWAY STANDARD	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS: B.W. 03/07/08 AUTOCAD FILE; FILE LOCATION: C:\IT\...; T:\ENGINEERING\STANDARDS: K.A.G. 11/21/18 AUTOCAD FILE	REVISIONS: B.W. 03/07/08 AUTOCAD FILE; K.A.G. 11/21/18 APRON ADD. TYP.; K.A.G. 05/06/19 REVISED GRADE	DETAIL NO. R-1



(*) 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: TL | DATE: 11/16/98
APPROVED: SMH | DATE: 11/11/02

SPECIAL LETTERED COVER

(*) PRODUCT NO. 00102421

(*) CATALOG NO. 1020A

REF. PRODUCT DRAWING 102067

EST. WT. COVER W/I 125 LBS. (52 kg)

OPEN AREA: N/A

MATL. SPEC. COVER -- GRAY IRON ASTM A48 CL. 25

LOAD RATING: HEAVY DUTY

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: B.W. 2-20-08 AUTOCAD FILE; FILE LOCATION: C:\...; T:\ENGINEERING\STANDARDS: K.A.G. 11/04/19 NOTES UPDATED	REVISIONS: B.W. 2-20-08 AUTOCAD FILE; J.J.P. 2-27-20 PER COMMENTS; K.A.G. 9/17/08 AUTOCAD FILE; K.A.G. 11/04/19 NOTES UPDATED	DETAIL NO. ST-7

VILLAGE OF WHEELING ILLINOIS
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090
(847) 459-2600

No.	Date	Nature of Revision	Chkd.

File Name

Design	KAG	
Drawn	KAG	
Chkd.	JMT	
Scale	NTS	
Plot Date	3/27/2018	
CAD User	Kyle Goetzelmann	
Model	Default	

Standard Details

Proj. No: 18.4500.01

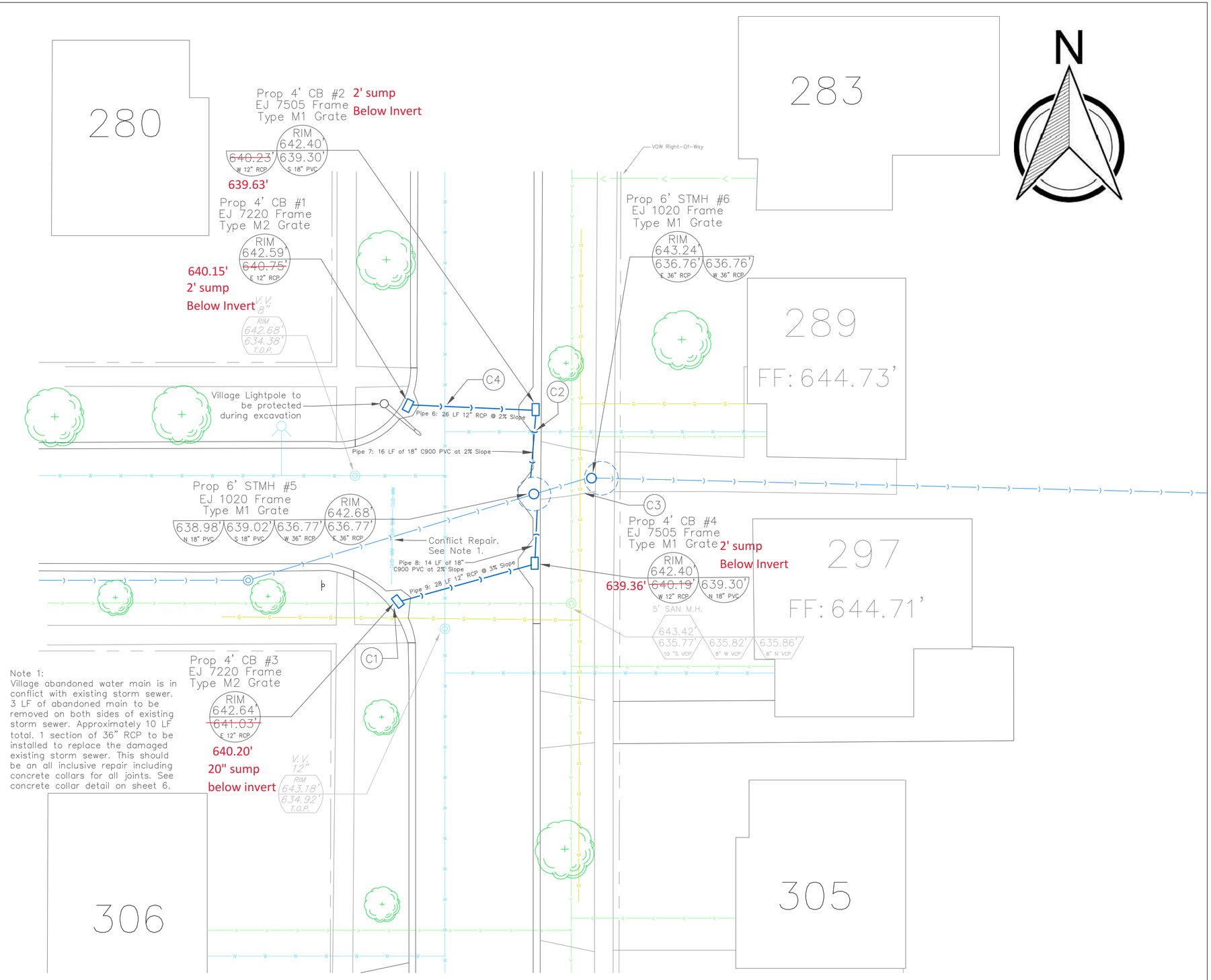
Dated: 3/27/2018

Sheet: 6 of 6

Drawing No. 6

Utility Crossing Table

Crossing Location	Pipe 1	Pipe 2	Separation
C1	Top 8" Sanitary: 636.53'	Bottom of CB: 638.03'	1'-6"
C2	Water Service Elev. Unknown	Bottom of 18" Storm: 639.25	Unknown
C3	Top 3" Gas Main: 639.43'	Top of 36" Storm: 639.71'	Field Verify Conflict
C4	Top 12" WM 634.92'	Bottom of 12" Storm: ~~640.34'~~ 639.74'	~~5' 5"~~ 4' - 8"



Note 1:
Village abandoned water main is in conflict with existing storm sewer. 3 LF of abandoned main to be removed on both sides of existing storm sewer. Approximately 10 LF total. 1 section of 36" RCP to be installed to replace the damaged existing storm sewer. This should be an all inclusive repair including concrete collars for all joints. See concrete collar detail on sheet 6.

VILLAGE OF WHEELING ILLINOIS
2 COMMUNITY BOULEVARD
WHEELING, ILLINOIS 60090
(847) 459-2600

No.	Date	Nature of Revision	Chkd.

File Name

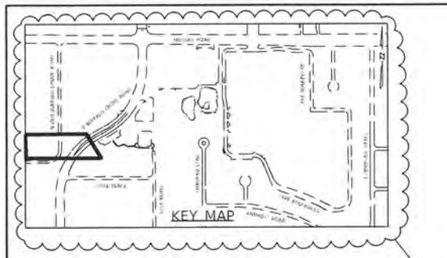
Design	KAG
Drawn	KAG
Chkd.	JMT
Scale	1"=10'
Plot Date	3/27/2018
CAD User	Kyle Goetzelmann
Model	Default

Utility Plan

Proj. No: 18.4500.01
Dated: 3/27/2018
Sheet: 4 of 6
Drawing No. 4

AS-BUILT
DATE RECEIVED 6/12/24
LOG NO. 24-142-AS

True copy of plans on file with
Metropolitan Water Reclamation
District of Greater Chicago
Sewer Permit 21-306



SHEET NOTES:

1. SANITARY SEWER BETWEEN MANHOLE 1001A AND MANHOLE 1009A SHALL BE INSTALLED WITH ALLOWABLE 1.5° JOINT DEFLECTION TO ACHIEVE CURVATURE BEHIND BACK OF CURB.
2. SEE SHEET 12 FOR UTILITY CROSSING INFORMATION.
3. CONNECTION TO THE EXISTING SANITARY MANHOLE SHALL BE MADE WITH RESILIENT CONNECTORS COMPLYING WITH ASTM STANDARD C-923. SEE PIPE STRUCTURE DETAIL ON SHEET 22 .

CONNECTION TO EXISTING STRUCTURE
INV = 675.77 (E)
(SEE SHEET NOTE 3)

MH B13-1001A
MANHOLES, SANITARY,
4'-DIAMETER, TYPE 1
FRAME, CLOSED LID,
STA 32+20, O/S 42.1 LT
RIM = ~~691.39~~ 691.43
INV = ~~676.24~~ (W,NE)
676.50

SANITARY SEWER
15" @ ~~0.50%~~, 0.77%
PVC SDR 26,
95 LF

SANITARY SEWER
15" @ ~~0.50%~~, 0.40%
PVC SDR 26,
236 LF
(SEE SHEET NOTE 1)

OLD BUFFALO GROVE RD
BUFFALO GROVE RD
MATCHLINE STA 34+00
MATCHLINE STA 34+00

0 20' 40'
GRAPHIC SCALE

EX SAN MH
SAN MH
RIM = 691.39
691.45
675.77
SANITARY SEWER 15"
@ 0.50%, PVC SDR 26, 95 LF
0.77%
676.24
676.24
676.50
SANITARY SEWER 15"
@ 0.50%, PVC SDR 26, 236 LF
0.40%

EX TERRAIN OVER PR SAN
PR SAN INV

32+00	32+50	33+00	33+50	34+00
675.83 / 690.03	675.94 / 690.00	676.04 / 690.03	676.15 / 690.18	676.24 / 691.39
676.34 / 695.77	676.45 / 695.42	676.56 / 690.65	676.67 / 690.36	676.78 / 690.32
676.89 / 690.65	677.00 / 690.50	677.11 / 690.43	677.22 / 690.01	

LUKE MATTSON
062-059493
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
DATE: 2/14/2024
SEAL EXPIRES: 11/30/2025

AS-BUILT

PLAN / PROFILE: DRAWN, CHECKED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, E.M. REVIEWED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., CADD FILE NAME, BY, DATE

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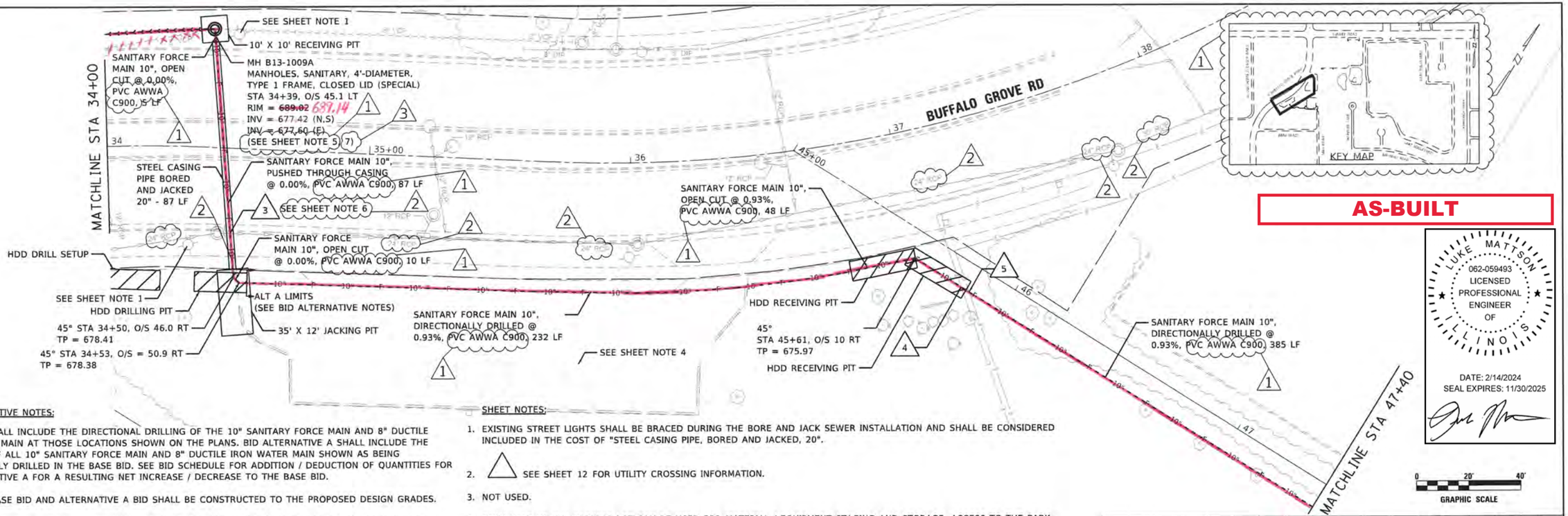
CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = WaterResources	DESIGNED - LAM	REVISED - 1 -- 11/12/21	
	DRAWN - CLB	REVISED - 2 -- 12/3/21	
PLOT SCALE = 40.0000 ' / in.	CHECKED - LAM	REVISED - AMH -- 7/14/23	
PLOT DATE = 2/18/2022	DATE - 10/1/2021	REVISED -	

VILLAGE OF BUFFALO GROVE

CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION
UTILITY PLAN AND PROFILE
SCALE: 1" = 20' | SHEET NO. 1 OF 5 SHEETS | STA. - TO STA. 34+00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	38	7
		CONTRACT NO. 21157.02		
	ILLINOIS			

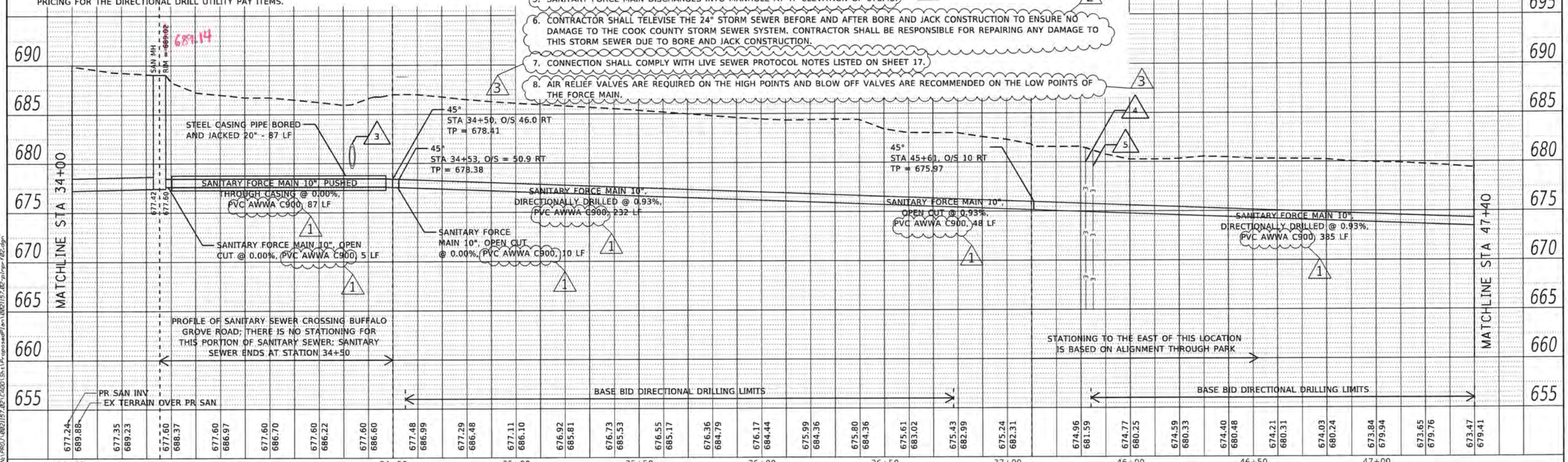


BID ALTERNATIVE NOTES:

1. BASE BID SHALL INCLUDE THE DIRECTIONAL DRILLING OF THE 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN AT THOSE LOCATIONS SHOWN ON THE PLANS. BID ALTERNATIVE A SHALL INCLUDE THE OPEN CUT OF ALL 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN SHOWN AS BEING DIRECTIONALLY DRILLED IN THE BASE BID. SEE BID SCHEDULE FOR ADDITION / DEDUCTION OF QUANTITIES FOR BID ALTERNATIVE A FOR A RESULTING NET INCREASE / DECREASE TO THE BASE BID.
2. BOTH THE BASE BID AND ALTERNATIVE A BID SHALL BE CONSTRUCTED TO THE PROPOSED DESIGN GRADES.
3. BASE BID DIRECTIONAL DRILL LIMITS SHALL BE MEASURED FROM THE FRONT EDGE OF THE DRILLING AND RECEIVING PITS. ADDITIONAL OR ALTERNATIVE DRILLING SETUPS SHALL BE APPROVED BY THE VILLAGE'S REPRESENTATIVE. COST OF ADDITIONAL DRILLING SETUPS SHALL BE CONSIDERED INCLUDED IN BID UNIT PRICING FOR THE DIRECTIONAL DRILL UTILITY PAY ITEMS.

SHEET NOTES:

1. EXISTING STREET LIGHTS SHALL BE BRACED DURING THE BORE AND JACK SEWER INSTALLATION AND SHALL BE CONSIDERED INCLUDED IN THE COST OF "STEEL CASING PIPE, BORED AND JACKED, 20".
2. △ SEE SHEET 12 FOR UTILITY CROSSING INFORMATION.
3. NOT USED.
4. ONLY HALF OF THE PARKING LOT CAN BE USED FOR MATERIAL / EQUIPMENT STAGING AND STORAGE. ACCESS TO THE PARK MUST BE MAINTAINED AT ALL TIMES DURING THE PROJECT.
5. SANITARY FORCE MAIN DISCHARGES INTO MANHOLE AT TP ELEVATION OF 678.43.
6. CONTRACTOR SHALL TELEVISE THE 24" STORM SEWER BEFORE AND AFTER BORE AND JACK CONSTRUCTION TO ENSURE NO DAMAGE TO THE COOK COUNTY STORM SEWER SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THIS STORM SEWER DUE TO BORE AND JACK CONSTRUCTION.
7. CONNECTION SHALL COMPLY WITH LIVE SEWER PROTOCOL NOTES LISTED ON SHEET 17.
8. AIR RELIEF VALVES ARE REQUIRED ON THE HIGH POINTS AND BLOW OFF VALVES ARE RECOMMENDED ON THE LOW POINTS OF THE FORCE MAIN.



CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = WaterResources	DESIGNED - LAM	REVISED - 1 - 11/12/21	VILLAGE OF BUFFALO GROVE
		DRAWN - CLB	REVISED - 2 - 12/3/21	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LAM	REVISED - 3 - 1/28/22	
	PLOT DATE = 2/18/2022	DATE - 10/1/2021	REVISED - AMH -- 7/14/23	

CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION
UTILITY PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 2 OF 5 SHEETS | STA. 34+00 TO STA. 47+40

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	38	8
		CONTRACT NO. 21157.02		
	ILLINOIS			

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SHEET NOTES:

1. SEE SHEET 12 FOR UTILITY CROSSING INFORMATION.
2. FENCE SHALL BE LOCATED 5' NORTH OF THE EXISTING PROPERTY LINE.
3. AIR RELIEF VALVES ARE REQUIRED ON THE HIGH POINTS AND BLOW OFF VALVES ARE RECOMMENDED ON THE LOW POINTS OF THE FORCE MAIN.

BID ALTERNATIVE NOTES:

1. BASE BID SHALL INCLUDE THE DIRECTIONAL DRILLING OF THE 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN AT THOSE LOCATIONS SHOWN ON THE PLANS. BID ALTERNATIVE A SHALL INCLUDE THE OPEN CUT OF ALL 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN SHOWN AS BEING DIRECTIONALLY DRILLED IN THE BASE BID. SEE BID SCHEDULE FOR ADDITION / DEDUCTION OF QUANTITIES FOR BID ALTERNATIVE A FOR A RESULTING NET INCREASE / DECREASE TO THE BASE BID.
2. BOTH THE BASE BID AND ALTERNATIVE A BID SHALL BE CONSTRUCTED TO THE PROPOSED DESIGN GRADES.
3. BASE BID DIRECTIONAL DRILL LIMITS SHALL BE MEASURED FROM THE FRONT EDGE OF THE DRILLING AND RECEIVING PITS. ADDITIONAL OR ALTERNATIVE DRILLING SETUPS SHALL BE APPROVED BY THE VILLAGE'S REPRESENTATIVE. COST OF ADDITIONAL DRILLING SETUPS SHALL BE CONSTRUCTED INCLUDED IN BID UNIT PRICING FOR THE DIRECTIONAL DRILL UTILITY PAY ITEMS.

AS-BUILT

LUKE MATTSON
062-059493
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
DATE: 2/14/2024
SEAL EXPIRES: 11/30/2025

MATCHLINE STA 47+40

HDD DRILL PIT
HDD DRILL SETUP
22.5°
STA 49+76, O/S 10.0 RT
TP = 672.10
HDD DRILL PIT
HDD DRILL SETUP
SANITARY FORCE MAIN 10", DIRECTIONALLY DRILLED @ 0.93%, PVC AWWA C900, 131 LF
SANITARY FORCE MAIN 10", OPEN CUT @ 0.93%, PVC AWWA C900, 60 LF
22.5°
STA 50+24, O/S 10.0 LT
TP = 671.61
20' SEPARATION BETWEEN POND AND PR FORCE MAIN
ALT A LIMITS (SEE BID ALTERNATIVE NOTES)
WOOD FENCE, 310 LF (SEE SHEET NOTE 2)
SANITARY FORCE MAIN 10", OPEN CUT @ 0.93%, PVC AWWA C900, 93 LF
45°
STA 51+79, O/S 33.8 LT
TP = 670.08
13' SEPARATION BETWEEN POND AND PR FORCE MAIN
HDD RECEIVING PIT
45°
STA 51+55, O/S 10.0 LT
TP = 670.39
MATCHLINE STA 52+25
GRAPHIC SCALE 0 20' 40'
KEY MAP

EX TERRAIN OVER PR SAN
PR SAN INV
BASE BID DIRECTIONAL DRILLING LIMITS
BASE BID DIRECTIONAL DRILLING LIMITS
MATCHLINE STA 47+40
MATCHLINE STA 52+25

673.47 679.41 | 673.28 679.16 | 673.09 678.88 | 672.91 678.87 | 672.72 679.03 | 672.53 679.05 | 672.35 678.72 | 672.16 678.87 | 671.98 678.81 | 671.79 678.80 | 671.60 678.84 | 671.42 678.87 | 671.23 678.34 | 671.02 678.05 | 670.82 677.47 | 670.63 677.11 | 670.44 676.52 | 670.26 675.92 | 670.07 676.28 | 669.88 676.26 | 669.70 676.02 | 669.49 675.81 | 669.24 675.46 | 669.06 675.20 | 668.88 674.89

47+50 48+00 48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00

695 690 685 680 675 670 665 660 655

CiorbaGroup	USER NAME = Water-Resources	DESIGNED - LAM	REVISED - 1 -- 11/12/21
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631		DRAWN - CLB	REVISED - 3 -- 1/28/22
P 773.775.4009 | www.ciorba.com	PLOT SCALE = 40.0000 ' / in.	CHECKED - LAM	REVISED - AMH -- 7/14/23
	PLOT DATE = 2/18/2022	DATE - 10/1/2021	REVISED -

VILLAGE OF BUFFALO GROVE

CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION
UTILITY PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 3 OF 5 SHEETS | STA. 47+40 TO STA. 52+25

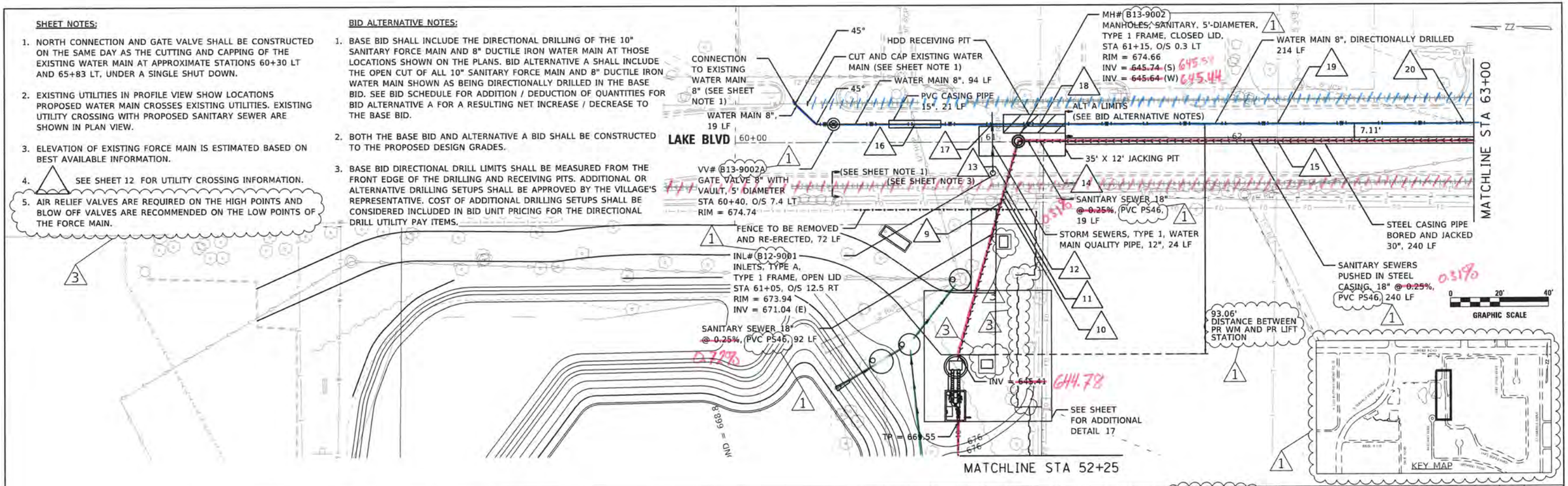
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	38	9
		CONTRACT NO. 21157.02		
	ILLINOIS			

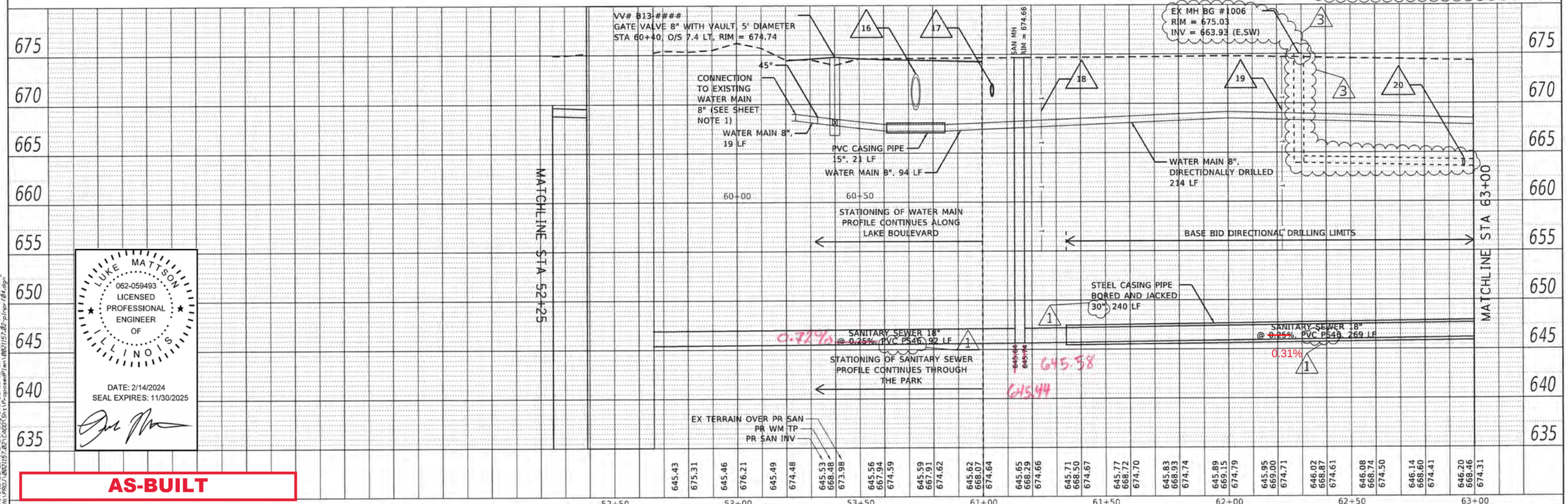
SHEET NOTES:

1. NORTH CONNECTION AND GATE VALVE SHALL BE CONSTRUCTED ON THE SAME DAY AS THE CUTTING AND CAPPING OF THE EXISTING WATER MAIN AT APPROXIMATE STATIONS 60+30 LT AND 65+83 LT, UNDER A SINGLE SHUT DOWN.
2. EXISTING UTILITIES IN PROFILE VIEW SHOW LOCATIONS PROPOSED WATER MAIN CROSSES EXISTING UTILITIES. EXISTING UTILITY CROSSING WITH PROPOSED SANITARY SEWER ARE SHOWN IN PLAN VIEW.
3. ELEVATION OF EXISTING FORCE MAIN IS ESTIMATED BASED ON BEST AVAILABLE INFORMATION.
4. SEE SHEET 12 FOR UTILITY CROSSING INFORMATION.
5. AIR RELIEF VALVES ARE REQUIRED ON THE HIGH POINTS AND BLOW OFF VALVES ARE RECOMMENDED ON THE LOW POINTS OF THE FORCE MAIN.

BID ALTERNATIVE NOTES:

1. BASE BID SHALL INCLUDE THE DIRECTIONAL DRILLING OF THE 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN AT THOSE LOCATIONS SHOWN ON THE PLANS. BID ALTERNATIVE A SHALL INCLUDE THE OPEN CUT OF ALL 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN SHOWN AS BEING DIRECTIONALLY DRILLED IN THE BASE BID. SEE BID SCHEDULE FOR ADDITION / DEDUCTION OF QUANTITIES FOR BID ALTERNATIVE A FOR A RESULTING NET INCREASE / DECREASE TO THE BASE BID.
2. BOTH THE BASE BID AND ALTERNATIVE A BID SHALL BE CONSTRUCTED TO THE PROPOSED DESIGN GRADES.
3. BASE BID DIRECTIONAL DRILL LIMITS SHALL BE MEASURED FROM THE FRONT EDGE OF THE DRILLING AND RECEIVING PITS. ADDITIONAL OR ALTERNATIVE DRILLING SETUPS SHALL BE APPROVED BY THE VILLAGE'S REPRESENTATIVE. COST OF ADDITIONAL DRILLING SETUPS SHALL BE CONSIDERED INCLUDED IN BID UNIT PRICING FOR THE DIRECTIONAL DRILL UTILITY PAY ITEMS.





AS-BUILT

LUKE MATTSON 062-059493 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
DATE: 2/14/2024
SEAL EXPIRES: 11/30/2025

CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = WaterResources	DESIGNED - LAM	REVISED - 1 - 11/12/21	
	DRAWN - CLB	REVISED - 2 - 1/28/22	
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PLOT DATE = 2/16/2022	DATE - 10/1/2021	REVISED -	

VILLAGE OF BUFFALO GROVE

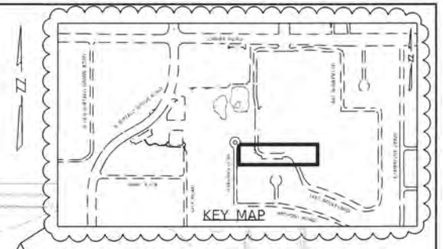
CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION
UTILITY PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 4 OF 5 SHEETS | STA. 52+25 TO STA. 63+00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	38	10
		CONTRACT NO. 21157.02		
	ILLINOIS			

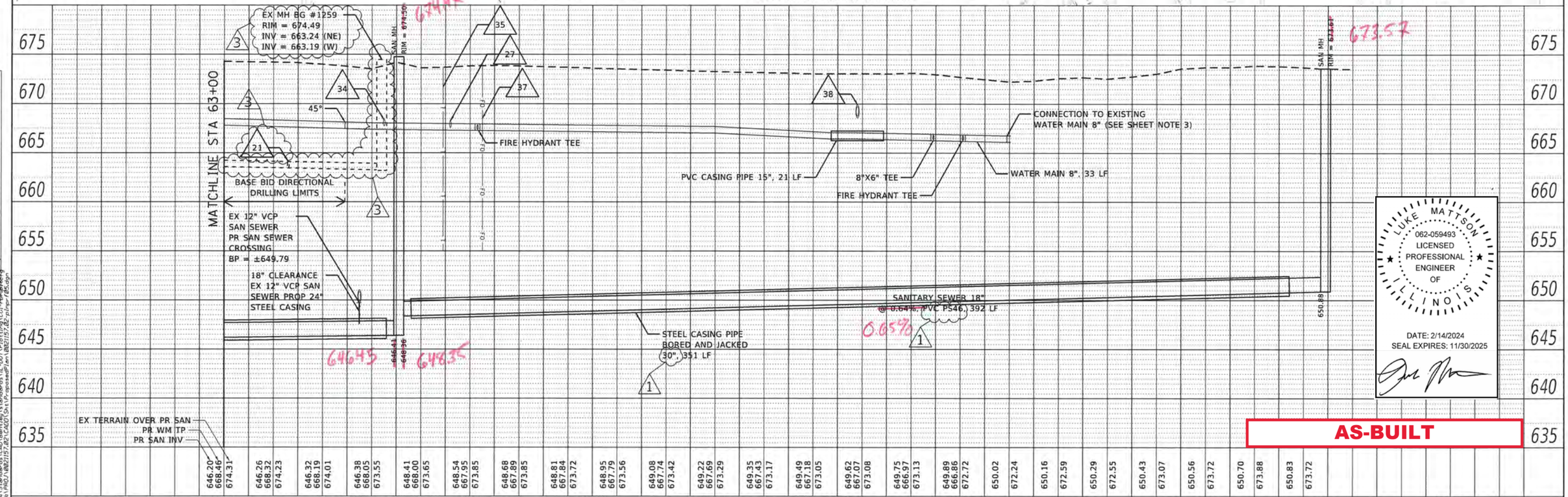
SHEET NOTES:

1. SANITARY MANHOLE SHALL BE CONSTRUCTED WITH EXISTING NORTHWEST INVERT OPERATIONAL, AND WEST INVERT SHALL BE PLUGGED WITH PNEUMATIC PLUG PRIOR TO COMMISSIONING NEW LIFT STATION. AFTER COMMISSIONING THE NORTHWEST PENETRATION SHALL BE GROUTED WITH 2' CONCRETE / MORTAR PLUG AND THE PNEUMATIC PLUG SHALL BE REMOVED FROM THE WEST INVERT.
2. EXISTING WATER MAIN THROUGH TRENCH SHALL BE CUT, REMOVED, AND ENDS CAPPED WITH BRICK AND MORTAR.
3. PRIOR TO FINAL CONNECTIONS (DURING FLUSHING, FILLING, AND DISINFECTION) NEW WATER MAIN SHALL HAVE A TEMPORARY CAP WITH A COPPER WHIP WITHIN 5' OF THE FINAL CONNECTION POINT TO FACILITATE FLUSHING AND SAMPLING. FINAL CONNECTIONS SHALL BE MADE ON THE SAME DAY WITHIN A FOUR HOUR TIME WINDOW.
4. EXISTING UTILITIES IN PROFILE VIEW SHOW LOCATIONS PROPOSED WATER MAIN CROSSES EXISTING UTILITIES UNLESS OTHERWISE NOTED. EXISTING UTILITY CROSSINGS WITH PROPOSED SANITARY SEWER ARE SHOWN IN PLAN VIEW.
5. SANITARY SEWER TO BE INSTALLED A THIS LOCATION IS TO BE INCLUDED IN THE COST OF PAY ITEM "SANITARY MANHOLE, SPECIAL" AND SHALL BE INSTALLED ACCORDING TO THE SPECIAL PROVISIONS.
6. △ SEE SHEET 12 FOR UTILITY CROSSING INFORMATION.
7. ONLY HALF OF THE PARKING LOT CAN BE USED FOR MATERIAL EQUIPMENT STAGING AND STORAGE. ACCESS TO THE EAST HALF OF THE PARKING LOT MUST BE MAINTAINED AT ALL TIMES DURING THE PROJECT.



BID ALTERNATIVE NOTES:

1. BASE BID SHALL INCLUDE THE DIRECTIONAL DRILLING OF THE 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN AT THOSE LOCATIONS SHOWN ON THE PLANS. BID ALTERNATIVE A SHALL INCLUDE THE OPEN CUT OF ALL 10" SANITARY FORCE MAIN AND 8" DUCTILE IRON WATER MAIN SHOWN AS BEING DIRECTIONALLY DRILLED IN THE BASE BID. SEE BID SCHEDULE FOR ADDITION / DEDUCTION OF QUANTITIES FOR BID ALTERNATIVE A FOR A RESULTING NET INCREASE / DECREASE TO THE BASE BID.
2. BOTH THE BASE BID AND ALTERNATIVE A BID SHALL BE CONSTRUCTED TO THE PROPOSED DESIGN GRADES.
3. BASE BID DIRECTIONAL DRILL LIMITS SHALL BE MEASURED FROM THE FRONT EDGE OF THE DRILLING AND RECEIVING PITS. ADDITIONAL OR ALTERNATIVE DRILLING SETUPS SHALL BE APPROVED BY THE VILLAGE'S REPRESENTATIVE. COST OF ADDITIONAL DRILLING SETUPS SHALL BE CONSIDERED INCLUDED IN BID UNIT PRICING FOR THE DIRECTIONAL DRILL UTILITY PAY ITEMS.



LUKE MATTSON
062-059493
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
DATE: 2/14/2024
SEAL EXPIRES: 11/30/2025

AS-BUILT

CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = WaterResources	DESIGNED - LAM	REVISED - 1 -- 11/12/21	
	DRAWN - CLB	REVISED - 2 -- 1/28/22	
PLOT SCALE = 40.0000 ' / in.	CHECKED - LAM	REVISED - 3 -- 4/18/22	
PLOT DATE = 4/18/2022	DATE - 10/1/2021	REVISED - AMH -- 7/14/23	

VILLAGE OF BUFFALO GROVE

CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION
UTILITY PLAN AND PROFILE
SCALE: 1" = 20' | SHEET NO. 5 OF 5 SHEETS | STA. 63+00 TO STA. -

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	38	11
		CONTRACT NO. 21157.02		
	ILLINOIS			

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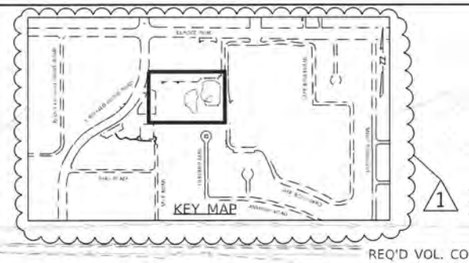

FUTURE CONNECTION LOCATION
FOR THE DEVELOPMENT AREA

CIOLINO SHOPPING CENTER
DETENTION POND

CIOLINO SHOPPING CENTER
POND NEW OVERFLOW ROUTE

CIOLINO SHOPPING CENTER
POND EXISTING OVERFLOW ROUTE

REQ'D VOL. CONTROL STORAGE= 0.36 AC-FT
PROVIDED VOL. CONTROL STORAGE = 0.38 AC-FT
VOL. CONTROL SURFACE EL. = 672.50
(SEE MWRD DETAIL ON SHEET 37)

T/BERM EL. = 673.50

12' WIDE HMA ACCESS DRIVEWAY
2" HMA SURFACE COURSE
2.5" HMA BINDER COURSE
462 SY 9" SUBBASE GRANULAR MATERIAL (CA-6)
SEE "ACCESS DRIVE DETAIL"

390 LF - PIPE UNDERDRAINS, 4" (SPECIAL)
INV = 670.90
5 EA - OBSERVATION WELLS,
AT UNDERDRAIN ENDS AND BENDS

71 LF -PIPE UNDERDRAINS, TYPE 2, 4"
(SEE NOTE 1)

REQUIRED DETENTION VOLUME = 2.02 AC-FT
PROVIDED DETENTION VOLUME = 2.02 AC-FT
B/POND ELEVATION = 670.80
NORMAL WATER LEVEL (NWL) = NOT APPLICABLE
HIGH WATER LEVEL (HWL) = 673.55
FREEBOARD (HWL - T/LIFT STATION) = 3.1 FT

S-01B
PRC FES, 12"
INV = ~~670.80~~ 670.70

UNDERDRAIN CONNECTION
TO STRUCTURE
INV = 670.80

T/BERM EL. = 676.00

PROPOSED MANHOLE/CATCH
BASIN CONNECTION
OVER EXISTING STORM SEWER

MH# B13-####
S-05
CB TA, 5' DIA., TY 8 FR & GR
RIM = ~~675.00~~ 675.20
INV = ~~670.77~~ (S) 670.89
INV = 673.53 (W, EX.-12")

P-05
8 LF - STORM SEWERS CLASS A
TYPE 1, 24" @ ~~0.4%~~ 1.3%

MH# B13####
S-04
CB TA, 5' DIA., TY 8 FR & GR
RIM = ~~675.00~~ 675.23
INV = ~~670.74~~ (N,S) 670.76

P-04
58 LF - STORM SEWERS CLASS A
TYPE 1, 30" @ ~~0.20%~~ 0.18%

CIOLINO SHOPPING CENTER
RESTRICTOR STRUCTURE

P-01B
15 LF - STORM SEWERS CLASS A
TYPE 1, 12" @ 0.00%

MH# B13-####
S-01A
MH TA, 9' DIA., 2- TY 1 CL
W/ RESTRICTOR AND WEIR
RIM = ~~676.40~~ 676.36
INV = ~~670.80~~ (NW,SE) 670.70
RES.= 4.7" DIA.
T/WEIR EL. = 673.50
(SEE NOTE 2)

P-01A
14 LF - STORM SEWERS CLASS A
TYPE 1, 18" @ ~~0.40%~~ 0.80%

MH# B13-####
S-01
MH TA, 8' DIA., TY 8 FR & GR
RIM = ~~676.40~~ 675.51
INV = ~~670.73~~ (NW) 670.58
INV. = ~~670.07~~ (SE, W) 669.88

P-01
34 LF - STORM SEWERS CLASS A
TYPE 1, 36" @ ~~0.20%~~
TBF = 27 CY 0.67%

PROPOSED MANHOLE/CATCH
BASIN CONNECTION
OVER EXISTING STORM SEWER

MH# B13-7271A
S-00
MH TA, 8' DIA., TY 8 FR & GR
RIM = 676.50 676.43
INV = ~~669.99~~ (NE-EX. 42") 669.49
INV. = ~~670.00~~ (NW) 669.65

GEOBLOCK POLYETHLYENE
POROUS PAVEMENT, 38 SY

P-03
144 LF - STORM SEWERS CLASS A
TYPE 1, 36" @ ~~0.20%~~ 0.81%

MH# B13-####
S-03
MH TA, 7' DIA., TY 8 FR & GR
RIM = ~~677.19~~ 677.40
INV = ~~670.62~~ (N,E) 670.67
INV = 673.35 (SW- EX, 18")
671.35

P-02
128 LF - STORM SEWERS CLASS A
TYPE 1, 36" @ ~~0.20%~~ 0.28%

PROPERTY LINE
LOWEST EL. = 675.90

MH# B13-####
S-02
MH TA, 6' DIA., TY 8 FR & GR
RIM = ~~675.00~~ 675.13
INV = ~~670.33~~ (W,E) 670.21
2 FT SUMP

LAKE BLVD

LUKE MATTSON
062-059493
LICENSED
PROFESSIONAL
ENGINEER
OF
ILLINOIS
DATE: 2/14/2024
SEAL EXPIRES: 11/30/2025

AS-BUILT

NOTE:

1. PERFORATED UNDERDRAINS SHOULD BE ONLY INSTALLED BELOW THE BOTTOM OF THE VOLUME CONTROL FACILITY OTHERWISE NON-PERFORATED UNDERDRAINS SHOULD BE USED.
2. PERFORATED UNDERDRAIN FROM THE VOLUME CONTROL FACILITY SHALL DISCHARGE UPSTREAM OF THE WEIR WALL/RESTRICTOR.

GRAPHIC SCALE 0 20' 40'

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USER NAME = WaterResources	DESIGNED - LAM	REVISED - 1 -- 11/12/21	
	DRAWN - CLB	REVISED - 2 -- 1/28/22	
PLOT SCALE = 40.0000 ' / in.	CHECKED - LAM	REVISED - AMH -- 7/14/23	
PLOT DATE = 2/18/2022	DATE - 10/1/2021	REVISED -	

VILLAGE OF BUFFALO GROVE

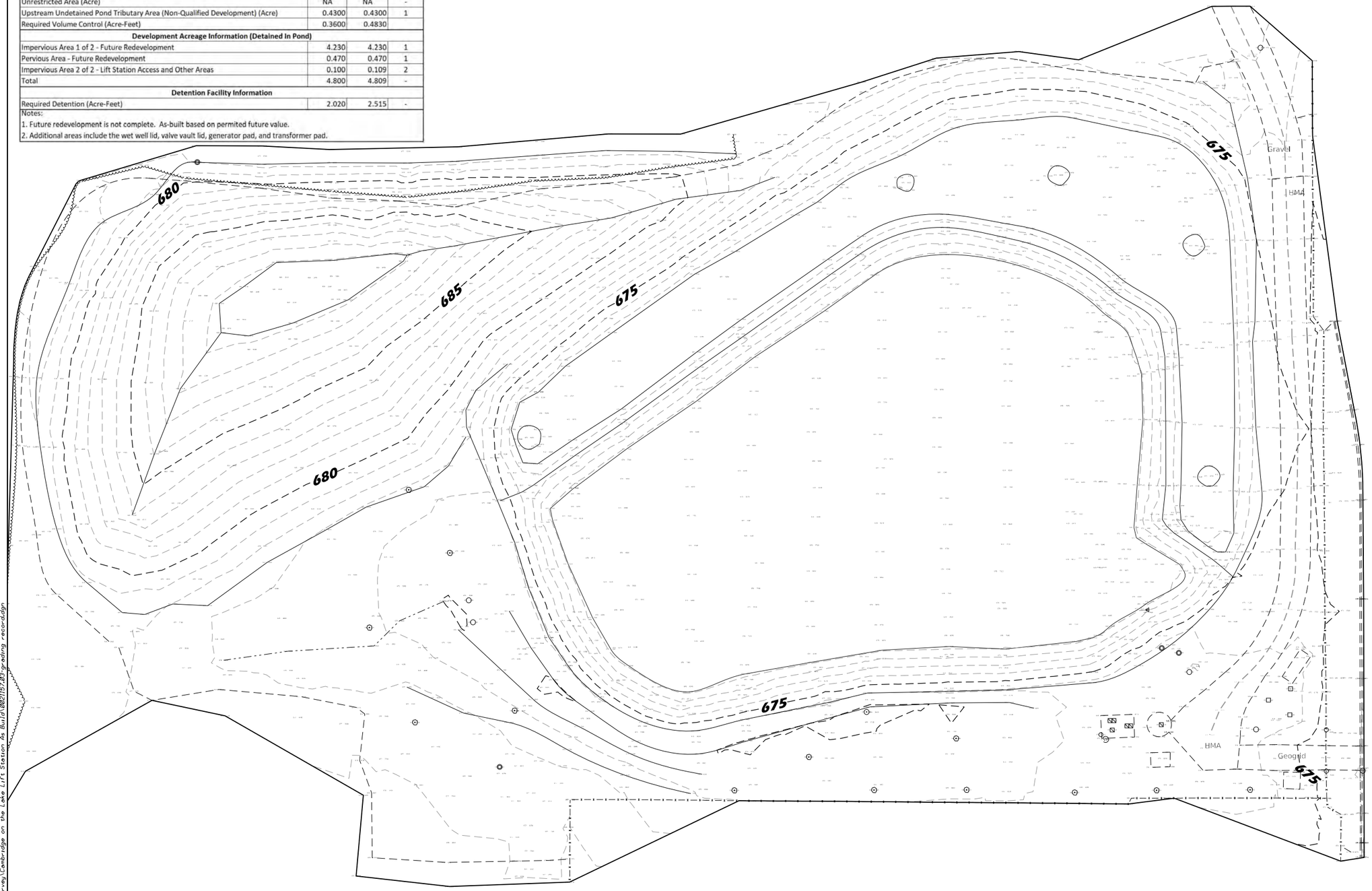
CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION
SITE GRADING, DRAINAGE, AND ACCESS ROAD PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. - TO STA. -

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	38	18
		CONTRACT NO. 21157.02		
-	ILLINOIS	-		

Permit 21-306 Stormwater Management Item	Permitted	As-Built	Notes
Development Information			
Development / Pond Tributary Area (Future + Current) (Acre)	4.800	4.800	1
Unrestricted Area (Acre)	NA	NA	-
Upstream Undetained Pond Tributary Area (Non-Qualified Development) (Acre)	0.4300	0.4300	1
Required Volume Control (Acre-Feet)	0.3600	0.4830	
Development Acreage Information (Detained In Pond)			
Impervious Area 1 of 2 - Future Redevelopment	4.230	4.230	1
Pervious Area - Future Redevelopment	0.470	0.470	1
Impervious Area 2 of 2 - Lift Station Access and Other Areas	0.100	0.109	2
Total	4.800	4.809	-
Detention Facility Information			
Required Detention (Acre-Feet)	2.020	2.515	-

Notes:
1. Future redevelopment is not complete. As-built based on permited future value.
2. Additional areas include the wet well lid, valve vault lid, generator pad, and transformer pad.



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PLOTTED
ALIGNMENT CHECKED
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CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

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STRUCTURE NOTATNS CHKD
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BY
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LUKE MATSON
062-059493
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

DATE: 09/01/2023
SEAL EXPIRES: 11/30/2023

AS BUILT CERTIFICATION:

THE ABOVE SIGNED ATTESTS THAT THIS AS-BUILT SITE PLAN REPRESENTS ACTUAL SITE CONDITIONS, AS SURVEYED BY CIORBA GROUP ON JANUARY 9, 2023.

0 20' 40'
GRAPHIC SCALE

CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = WaterResources	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - LAM	REVISED -
PLOT DATE = 9/1/2023	DATE - 9/1/2023	REVISED -

VILLAGE OF BUFFALO GROVE

CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION
SITE GRADING AS BUILT

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. - TO STA. -

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	1	1
		CONTRACT NO. 21157.02		
-	ILLINOIS	-		

NOTES TO USERS

This map s for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or flood plain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tabe in the Flood nsurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or flood plain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

In the State of Illinois, any portion of a stream or watercourse that lies within the **floodway fringe** of a studied AE) stream may have a state regulated floodway. The FIRM maynot depict these state regulated floodways.

Floodways restricted by anthropogenic features such as bridges and culverts are drawn to reflect natural conditions and may not agree with the model computed widths listed in the Floodway Data table in the Flood Insurance Study report.

Multiple **topographic sources** may have been used in the delineation o Special Food Hazard Areas. See Flood Insurance Study report for details on source resolution and geographix extent.

Certain areas not in Special Food Hazard Areas may be protected by **flood control structures**. Refer to Section 1.4 "Flood Protection Measures" of the Flood Insurance Study report for information on food control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 16. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences to not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services, NOAA, N/NGS12
National Geodetic Survey SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-2282
(301) 713-3242

To obtain current elevation, description, and/or location for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the United States Geological Survey. Digital orthoimagery with a spatial resolution of 0.3 meter ground sample distance were photogrammetrically compiled from aerial photography acquired during the leaf-off period of spring 2005.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The Special Flood Hazard Areas and floodways that were transfrred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

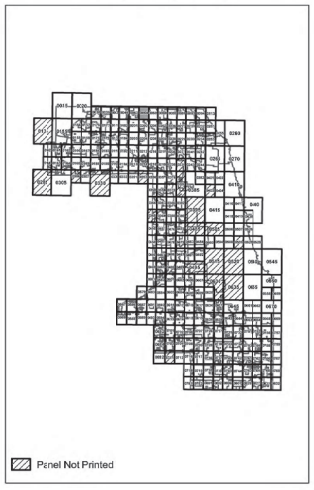
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occured after this nap was published, nap users should contact appropriate community officials to verify current corporate limit locations.

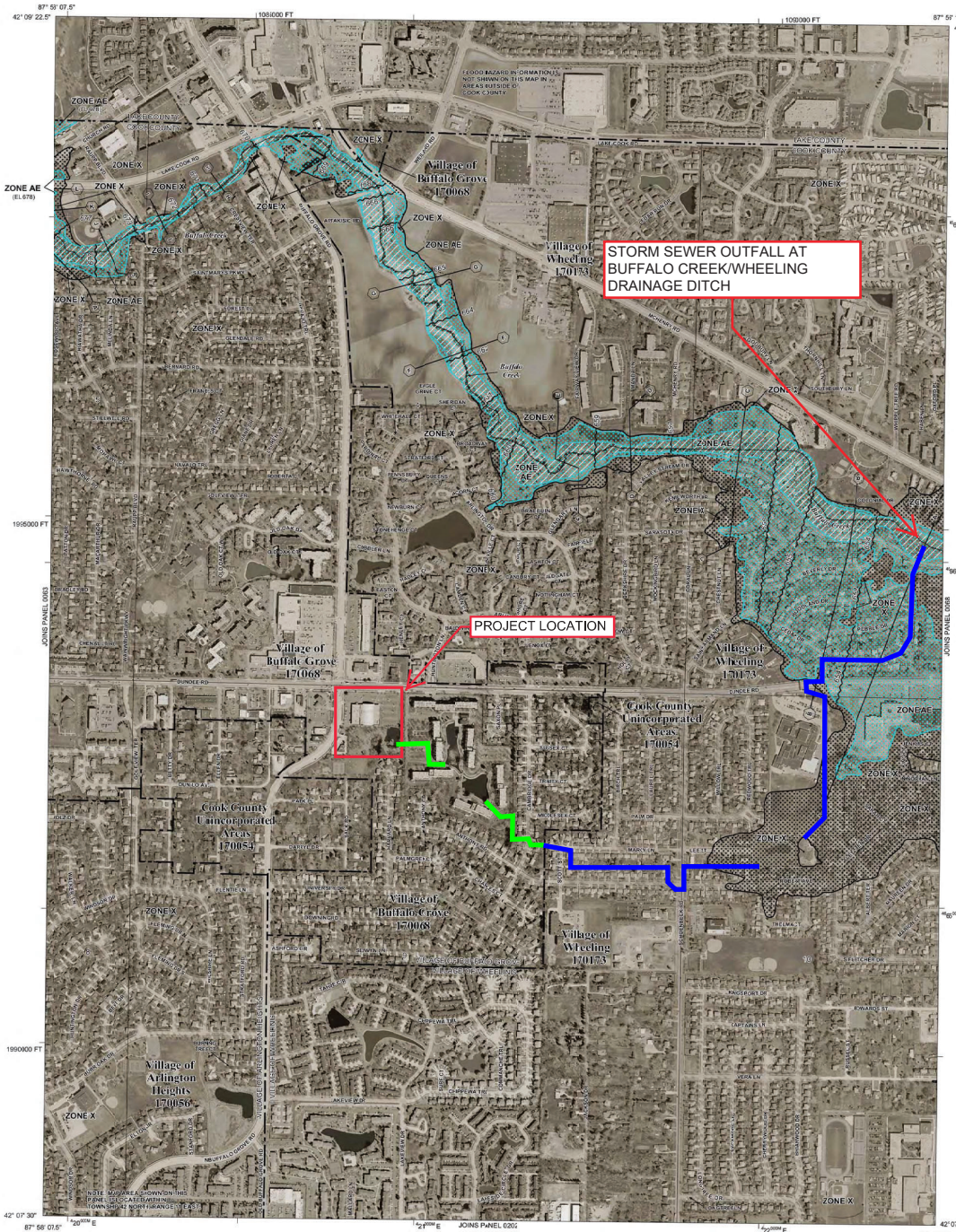
Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing o the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this RIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital version of this nap. The FEMI Map Service Cente may also be reached by fax at 1-800-358-9620 and its website at www.msc.fema.gov.

If you have **questions about this map** or questions concerning the National Food Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at www.fema.gov/business/nfip.

PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equalled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4980000 N — 1000-meter Universal Transverse Mercator grid values, zone 16
- 1563000 FT — 5000-foot grid tick: Illinois State Plane East Coordinate System, 3776 zone (FIPSZONE 1201) Transverse Mercator
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M15 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
NOVEMBER 6, 2000

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

December 33, 2002; February 4, 2005; June 2, 2005; December 16, 2005; November 16, 2006; and April 16, 2007

August 19, 2008 - to reflect updated topographic information, to update corporate limits, to add road names, to incorporate previously issued Letters of Map Revision, to change Base Flood Elevations, to add Special Flood Hazard Areas and Base Flood Elevations, and to change zone designations.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET

150 0 150 300 METERS

NFIP

PANEL 0064J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS AND INCORPORATED AREAS

PANEL 64 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ARLINGTON HEIGHTS, VILLAGE OF	170056	0064	J
BUFFALO GROVE, VILLAGE OF	170068	0064	J
COOK COUNTY	170054	0064	J
WHEELING, VILLAGE OF	170173	0064	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

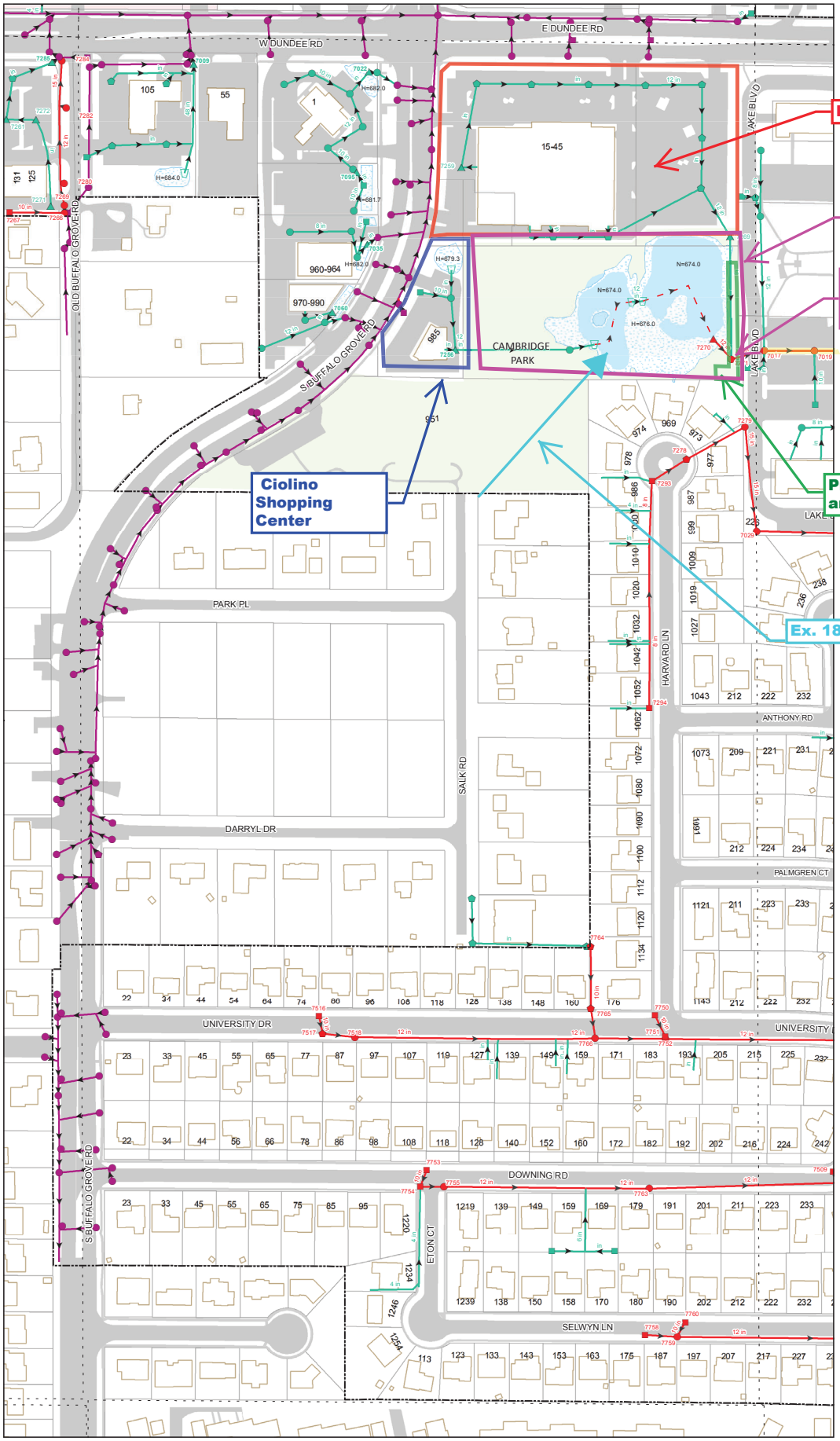
MAP NUMBER
17031C0064J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

E 1/2 of the NW 1/4 of SEC 9 TOWNSHIP 42 N RANGE 11 E OF THE 3RD PM
Wheeling Township - Cook County, IL

VILLAGE OF Buffalo Grove



B13 Details

Legend

Catch Basin
- Village of Buffalo Grove
- Private
- Other Agency

Inlet
- Village of Buffalo Grove
- Private
- Other Agency

Manhole
- Village of Buffalo Grove
- Private
- Other Agency

Gravity Main
- Village of Buffalo Grove
- Private
- Other Agency
- Flow

Clean Out
- Village of Buffalo Grove
- Private
- Other Agency

Headwall or Flared End Section
- Village of Buffalo Grove
- Private
- Other Agency

Detention Facilities
- Wet
- Dry
- Underground Detention Flow Entry/Exit

N = Normal Water Line (NWL)
H = High Water Line (HWL)

Restrictor
- Village of Buffalo Grove
- Private
- Other Agency

Storm Atlas (with I.D. numbers)

Last Revised:6/13/2019

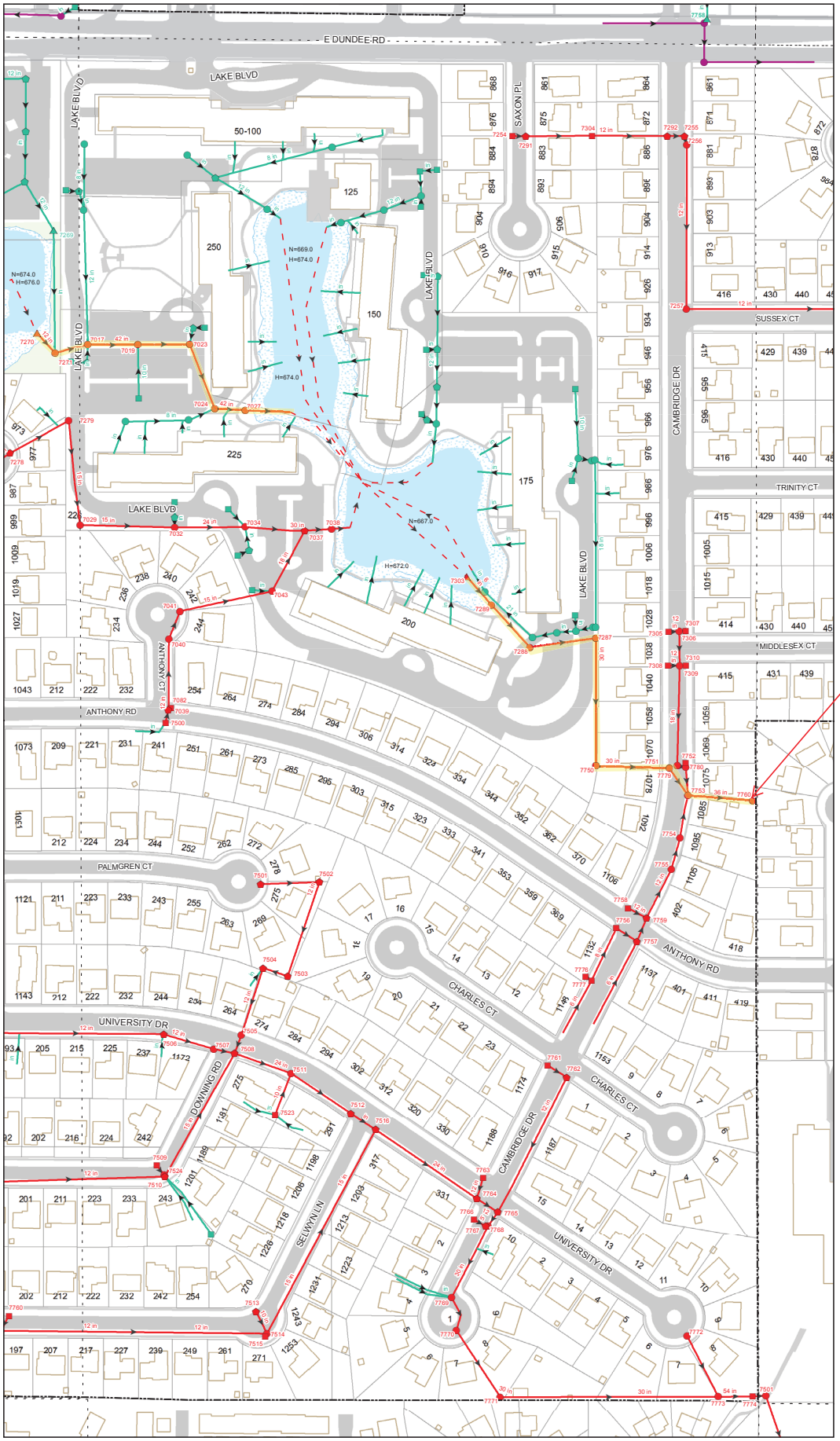
B13

GIS consortium

W 1/2 of the NE 1/4 of SEC 9 TOWNSHIP 42 N RANGE 11 E OF THE 3RD PM
Wheeling Township - Cook County, IL

VILLAGE OF Buffalo Grove

B14 Details



0 125 250 500 750 1,000 Feet

Legend

Catch Basin
- Village of Buffalo Grove
- Private
- Other Agency

Inlet
- Village of Buffalo Grove
- Private
- Other Agency

Manhole
- Village of Buffalo Grove
- Private
- Other Agency

Gravity Main
- Village of Buffalo Grove
- Private
- Other Agency
- Flow

Clean Out
- Village of Buffalo Grove
- Private
- Other Agency

Headwall or Flared End Section
- Village of Buffalo Grove
- Private
- Other Agency

Detention Facilities
- Wet
- Dry
- Underground Detention Flow Entry/Exit

N = Normal Water Line (NWL)
H = High Water Line (HWL)

Restrictor
- Village of Buffalo Grove
- Private
- Other Agency

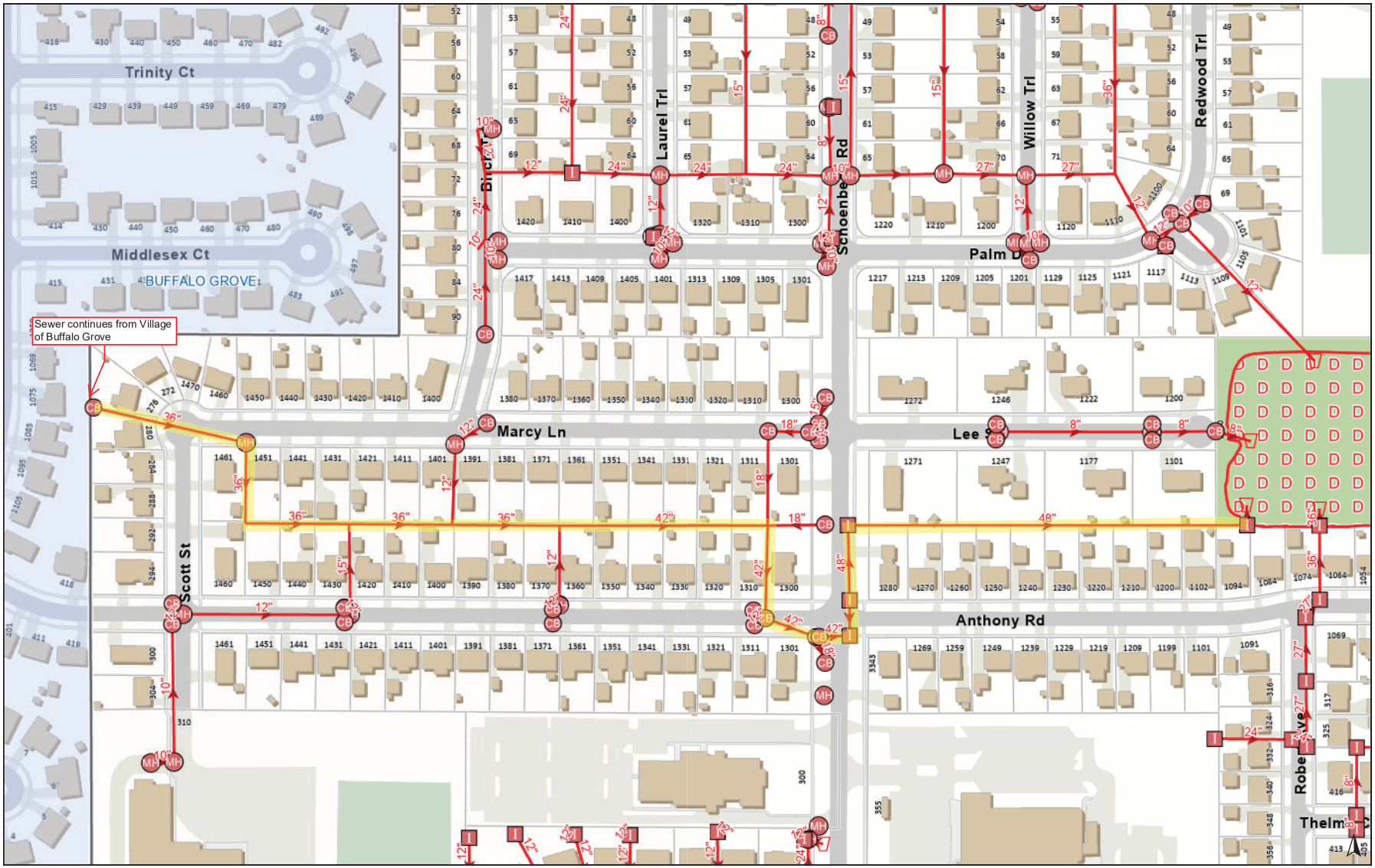
Storm Atlas (with I.D. numbers)

Last Revised:6/13/2019

B14

GIS consortium

GISConsortium | Map Title



Legend

Storm Utilities

- Storm Catch Basin
- Storm Inlet
- Storm Manhole
- Storm Discharge Point
- Storm Flared End Section
- Storm Main
  - Active
- Retention or Detention Area
  - Detention

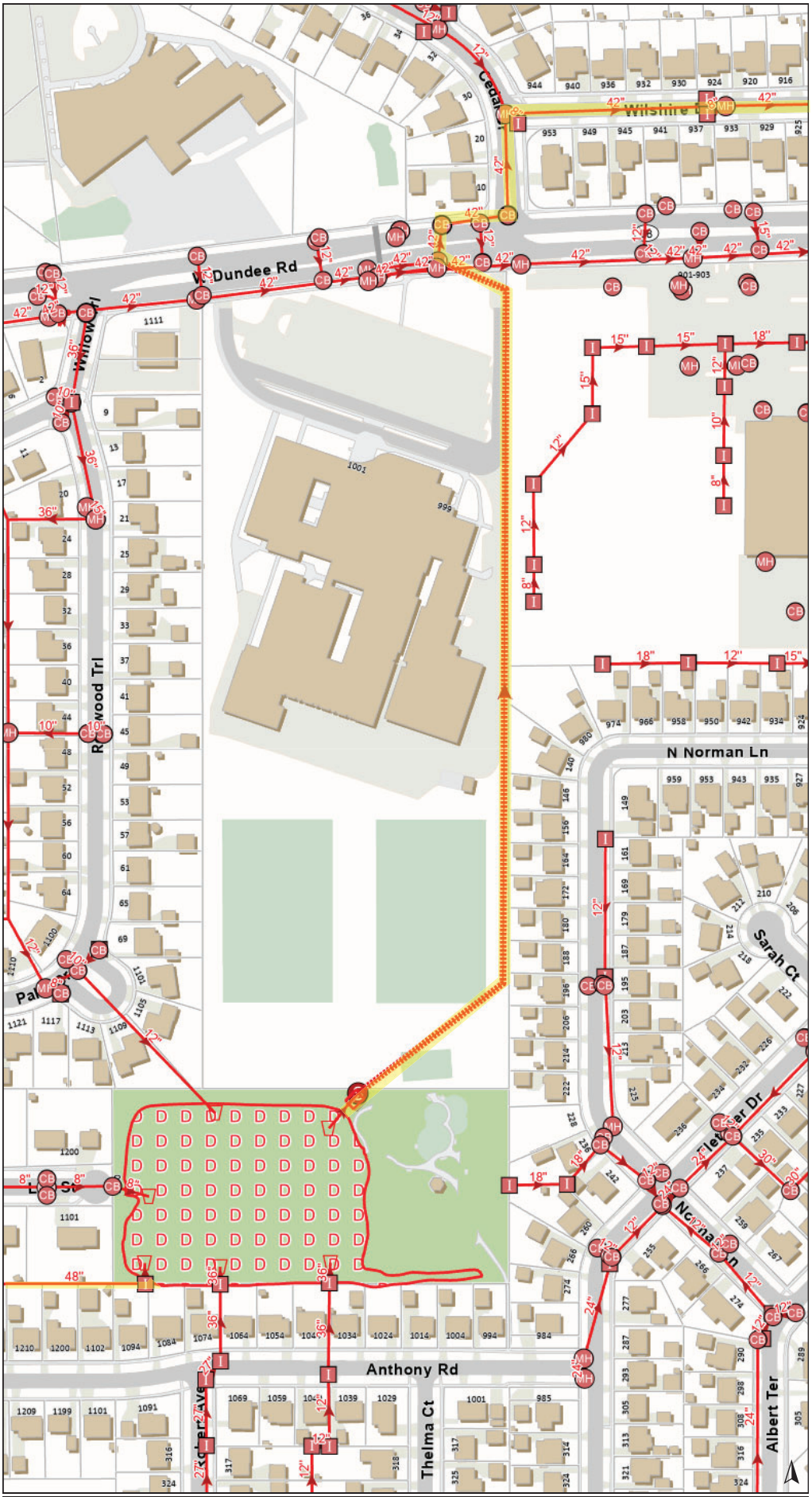
0 500 1000 ft

Print Date: 9/28/2021

Notes

Disclaimer: The GIS Consortium and MGP Inc. are not liable for any use, misuse, modification or disclosure of any map provided under applicable law. This map is for general information purposes only. Although the information is believed to be generally accurate, errors may exist and the user should independently confirm for accuracy. The map does not constitute a regulatory determination and is not a base for engineering design. A Registered Land Surveyor should be consulted to determine precise location boundaries on the ground.

GISConsortium | Map Title



Legend

Storm Utilities

- Storm Catch Basin
- Storm Inlet
- Storm Manhole
- Storm Fitting
- Storm Discharge Point
- Storm Flared End Section
- Storm Main
  - Active
- Storm Force Main
  - Active
- Retention or Detention Area
  - Detention
- Storm Large Sewer Structure
  - Storm Runoff
- Storm Sewer Structure
  - Storm Runoff

0 300 600 ft

Print Date: 9/28/2021

Notes

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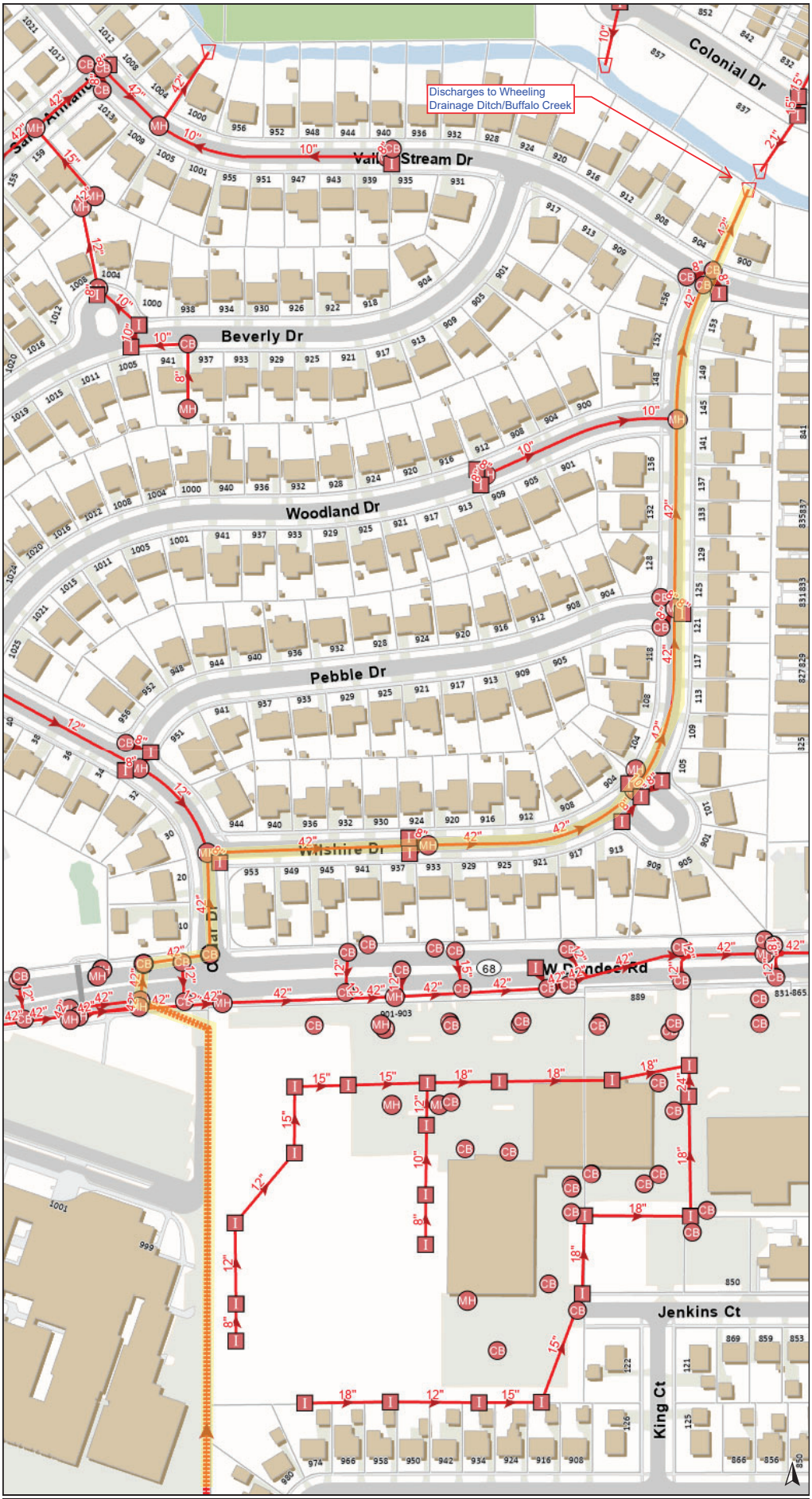
GISConsortium | Map Title



Legend

Storm Utilities

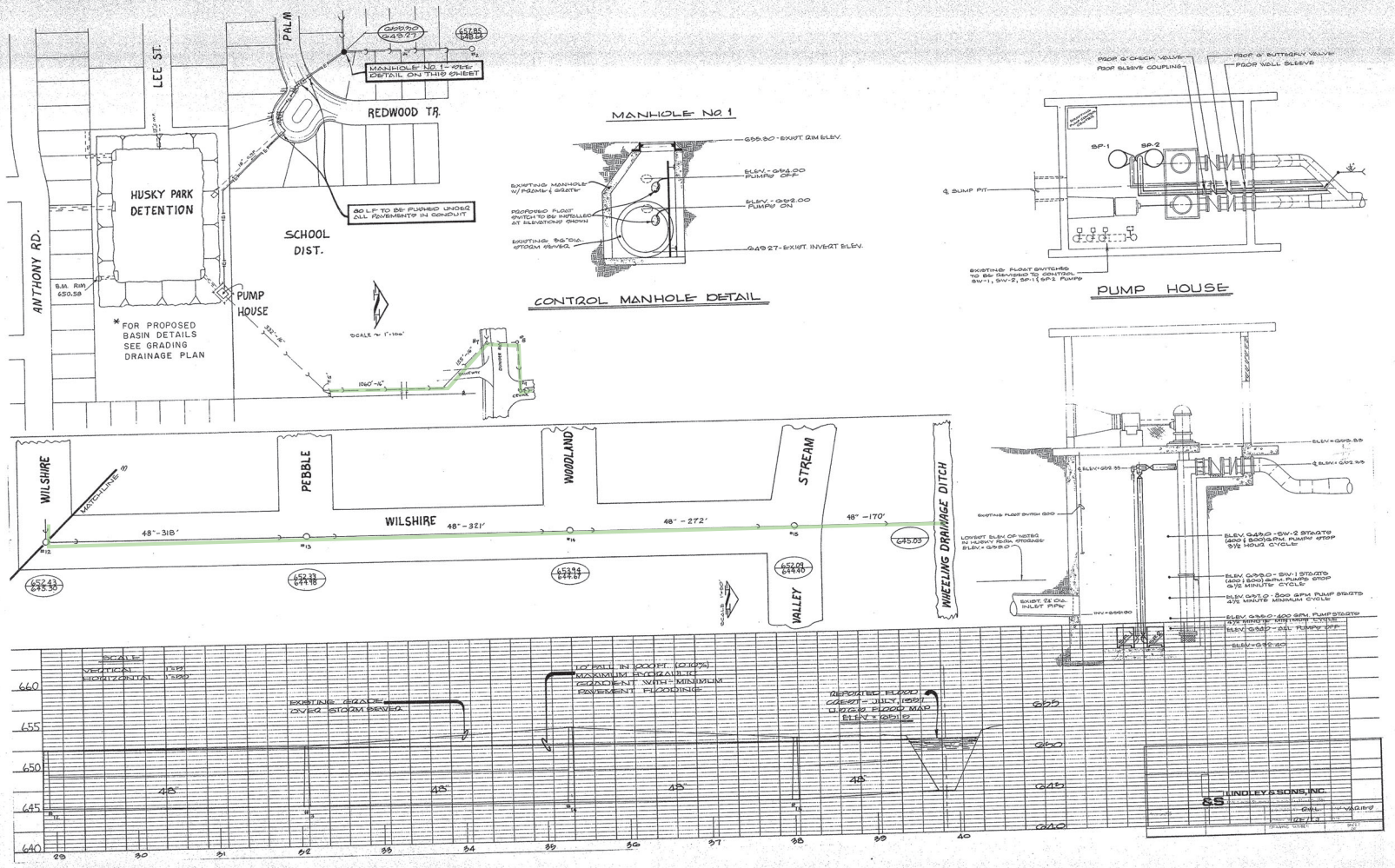
- Storm Catch Basin
- Storm Inlet
- Storm Manhole
- Storm Fitting
- Storm Discharge Point
- Storm Main
  - Active
- Storm Force Main
  - Active

0 300 600 ft

Print Date: 11/16/2021

Notes

Disclaimer: The GIS Consortium and MGP Inc. are not liable for any use, misuse, modification or disclosure of any map provided under applicable law. This map is for general information purposes only. Although the information is believed to be generally accurate, errors may exist and the user should independently confirm for accuracy. The map does not constitute a regulatory determination and is not a base for engineering design. A Registered Land Surveyor should be consulted to determine precise location boundaries on the ground.



OWNER

VILLAGE OF WHEELING, ILLINOIS

PROJECT

HUSKY PARK DETENTION BASIN

DRAWING

- ☐ GRADING
- ☐ DRAINAGE
- ☐ DIMENSIONS
- ☐ DETAILS
- ☐ CROSS SECTIONS
- ☐ PLANTING
- ■ PLAN & PROFILE

AND ASSOCIATES, INC.
LANDSCAPE ARCHITECTS
10 N. LINCOLN STREET
HINSDALE, ILLINOIS

Date	JAN. 23, 1974
Designed	
Drawn	
Checked	
Scale	VARIES
Date	Revision

SHEET NUMBER

3 OF 6

HANCER 854

VILLAGE OF WHEELING
COOK COUNTY
STATE OF ILLINOIS
2020 MFT STREET IMPROVEMENT PROGRAM
M.F.T. SECTION 20-00088-00-RS

CONTACTS:
IDOT-BLR:
ALEX HOUSEH / GERARDO FIERRO

VILLAGE OF WHEELING:
JON TACK, VILLAGE ENGINEER

VILLAGE OF WHEELING - VILLAGE HALL:
2 Community Boulevard
Wheeling, IL 60090
Tel: 847-459-2600
Fax: 847-459-9692

VILLAGE OF WHEELING - PUBLIC WORKS:
77 W. Hintz Road
Wheeling, IL 60090
Tel: 847-279-6900
Fax: 847-279-6420

PREPARED BY:
Haeger Engineering LLC
Illinois Prof. Design Firm #184-003152
100 E. State Parkway
Schaumburg, IL 60173
Tel: 847-394-6600
Fax: 847-394-6608
www.haegerengineering.com

BENCHMARKS:

VILLAGE OF WHEELING BM-15

2.5" Aluminum Disk Stamped 'Village of Wheeling - Survey Marker' at sanitary lift station at southeast corner of Dundee Road & Milwaukee Ave.

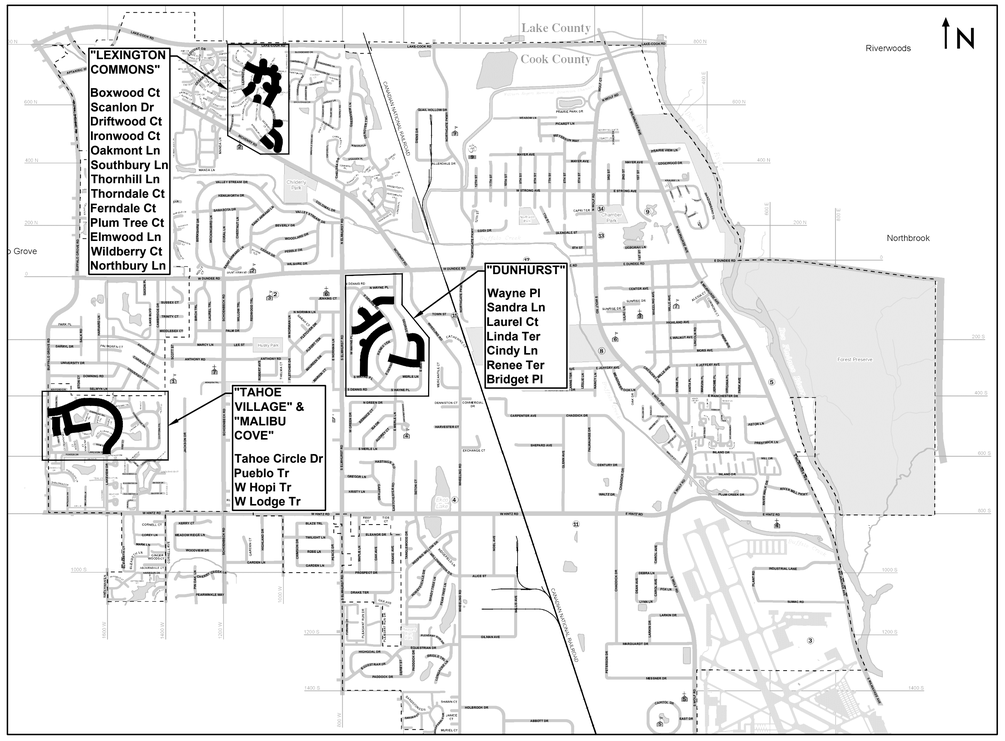
Elevation = 646.315 (NAVD 88)

VILLAGE OF WHEELING BM-22

2.5" Aluminum Disk stamped 'Village of Wheeling - Survey Marker' on south side of Hintz Road bridge, approximately 500-ft west of Wheeling Road.

Elevation = 649.119 (NAVD 88)

See Sheets C3.0-C3.1 for Site Benchmarks



LOCATION MAP
Not To Scale

LEGEND

Existing Symbol	Description	Proposed Symbol
	Storm Sewer Manhole	
	Catch Basin	●
	Inlet	
	Sanitary Sewer Manhole	
	Clean Out	
	Storm Sewer	
	Sanitary Sewer	
W	Water Main	
W W	Water Main Service	
	Fire Hydrant	
	Valve Vault	
	Valve Box	
	B-Box	
	Light Pole	
	Hand Hole	
	Fence	
	Sign	
	Gas Valve	
G	Gas Line	
E	Electric Line	
	Lamp Post	
	Curb & Gutter	
	Depressed Curb & Gutter	
	Retaining Wall	
	Curb Elevation and Gutter Elevation	C XXX.XX / G XXX.XX
	Pavement Elevation	P XXX.XX
XXX.X +	Spot Elevation	XXX.XX
Gr XXX.XX	Open Lid Frame & Grate	
Rim XXX.XX	Closed Lid Frame & Lid	
	Contour Line	
	Deciduous Tree	
	Coniferous Tree	
	Bush	

INDEX TO SHEETS

NO.	DESCRIPTION
C1.0	TITLE SHEET
C2.0	GENERAL NOTES & TYPICAL SECTIONS
C2.1	SUMMARY OF QUANTITIES & ROADWAY TYPICAL SECTIONS
C3.0	ALIGNMENTS, TIES, AND BENCHMARKS - TAHOE VILLAGE
C3.1	ALIGNMENTS, TIES, AND BENCHMARKS - LEXINGTON COMMONS
C3.2	ALIGNMENTS, TIES, AND BENCHMARKS - DUNHURST
C4.0	TAHOE CIRCLE DRIVE (STA.10+00 TO STA. 15+50)
C4.1	TAHOE CIRCLE DRIVE (STA.15+50 TO STA. 21+50)
C4.2	TAHOE CIRCLE DRIVE (STA. 21+00 TO STA. 27+50)
C4.3	TAHOE CIRCLE DRIVE (STA. 27+50 TO STA. 33+50)
C4.4	TAHOE CIRCLE DRIVE (STA. 33+50 TO STA. 36+21)
C5.0	WEST LODGE TRAIL (STA. 10+00 TO STA. 22+79)
C6.0	WEST HOPI TRAIL (STA. 10+00 TO STA. 14+36)
C7.0	PUEBLO TRAIL (STA. 12+07 TO STA. 15+83)
C8.0	SOUTHBURY LANE & BOXWOOD COURT
C9.0	THORNDALE COURT & IRONWOOD COURT
C10.0	NORTHBURY COURT & WILDBURY COURT
C11.0	ELMWOOD LANE & OAKMONT LANE
C12.0	PLUM TREE COURT & FERNDALE COURT
C13.0	DRIFTWOOD COURT (STA. 10+00 TO STA. 13+88)
C14.0	THRONHILL LANE (STA. 10+00 TO STA. 16+64)

INDEX TO SHEETS

NO.	DESCRIPTION
C15.0	SCANLON DRIVE (STA. 10+00 TO STA. 15+50)
C15.1	SCANLON DRIVE (STA. 15+50 TO STA. 19+50)
C15.2	SCANLON DRIVE (STA. 19+50 TO STA. 24+09)
C16.0	SANDRA LANE (STA. 10+00 TO STA. 14+97)
C17.0	LAUREL COURT (STA. 10+00 TO STA. 13+23)
C18.0	LINDA TERRACE (STA. 10+00 TO STA. 14+00)
C18.1	LINDA TERRACE (STA. 14+00 TO STA. 18+22)
C19.0	CINDY LANE (STA. 10+00 TO STA. 15+00)
C19.1	CINDY LANE (STA. 15+00 TO STA. 20+00)
C19.2	CINDY LANE (STA. 10+00 TO STA. 24+23)
C20.0	RENEE TERRACE (STA. 10+00 TO STA. 15+00)
C20.1	RENEE TERRACE (STA. 15+00 TO STA. 20+65)
C21.0	BRIDGET PLACE (STA. 10+00 TO STA. 15+00)
C21.1	BRIDGET PLACE (STA. 15+00 TO STA. 16+37)
C22.0	WAYNE PLACE (STA. 59+84 TO STA. 65+00)
C22.1	WAYNE PLACE (STA. 65+00 TO STA. 67+46)
C23.0	PAVEMENT MARKING PLAN
C23.1	PAVEMENT MARKING PLAN
C23.2	PAVEMENT MARKING PLAN
C24.0	STANDARD DETAILS
C24.1	STANDARD DETAILS

APPROX. LENGTH OF IMPROVEMENT

Hopi Tr	424	LF	(Resurfacing)
Lodge Tr (N)	523	LF	(Resurfacing)
Pueblo Tr (N)	326	LF	(Resurfacing)
Tahoe Circle Dr	2535	LF	(Resurfacing)
Northbury Ln	37	LF	(Resurfacing)
Boxwood Ct	167	LF	(Resurfacing)
Driftwood Ct	376	LF	(Resurfacing)
Elmwood Ln	172	LF	(Resurfacing)
Ferndale Ct	171	LF	(Resurfacing)
Ironwood Ct	156	LF	(Resurfacing)
Oakmont Ln	189	LF	(Resurfacing)
Plumtree Ct	268	LF	(Resurfacing)
Scanlon Dr	1362	LF	(Resurfacing)
Southbury Ln	191	LF	(Resurfacing)
Thorndale Ct	155	LF	(Resurfacing)
Thornhill Ln	642	LF	(Resurfacing)
Wildberry Ct	388	LF	(Resurfacing)
Bridget Pl	610	LF	(Resurfacing)
Cindy Ln	1492	LF	(Resurfacing)
Laurel Ct	323	LF	(Resurfacing)
Linda Ter	797	LF	(Resurfacing)
Sandra Ln	472	LF	(Resurfacing)
Wayne Pl	750	LF	(Resurfacing)
Renee Ter	1041	LF	(Resurfacing)
TOTAL	13,567	LF	(2.570 Miles)

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

Note:
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

MICHAEL L. ANDERSON
062-053214
LICENSED PROFESSIONAL ENGINEER
OF
STATE OF ILLINOIS

EXPIRES 11-30-21

No.	Revision	Date

HAEGER ENGINEERING
consulting engineers • land surveyors
100 E. State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No.: 184-003152
www.haegerengineering.com

TITLE SHEET

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C1.0 / C24

© 2020 Haeger Engineering, LLC

Plot Date: Mar 06, 2020 - 2:32pm Plotted By: josh-l
File Name: C:\Users\josh-l\appdata\local\temp\AcPublish_16052\19197-TITLE-NOTES-DETAILS.dwg

GENERAL NOTES

GENERAL NOTES AND CONDITIONS

1. Before starting any excavation, the Contractor shall call " JULIE" at 800-892-0123 for field locations of buried electric, telephone and gas facilities. (48 hour notification is required)
2. The Contractor shall coordinate construction activities with utility companies and the Village of Wheeling.
3. The Contractor shall be responsible for the protection of all underground utilities even though they may not be shown on the plans. Therefore, the Contractor shall have the respective utility companies field locate all of their facilities prior to beginning construction. any relocation or lowering of utilities shall be coordinated by the Contractor. Utilities that are damaged during construction shall be repaired or replaced by the Contractor at his own expense.
4. Ten (10) feet or three (3) meter transitions shall be used to match proposed curb and gutter and median items of work to existing curbs & gutters and medians in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed items of work specified.
5. Barricades: The Contractor shall provide and install two (2) weighted sandbags on each type I or type II barricade used- (1) weighted sand bag across each bottom rail.
6. All the work performed by the Contractor shall be guaranteed for a period of twelve (12) months from the date of final acceptance by IDOT. This guarantee shall include all defects in materials and workmanship.
7. The Village of Wheeling, Illinois, Public Works Department must be notified at least two (2) working days prior to a request for inspection, commencement or resumption of any work.
8. The Contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures and all other measures that are necessary to protect the safety of the project area at all times.
9. All structures, inlets, pipes, swales and roads must be kept clean and free of dirt and debris at all times.
10. Adjustment of any sanitary sewer manhole frames shall include the installation of chimney seals in accordance with Village requirements. The cost of the chimney seal shall be considered incidental to the adjustment of the structure.
11. Any defective or non-bicycle safe frame & grates shall be brought to the Village's attention. All frames & grates to be replaced shall remain property of the Village and shall be stored in the right-of-way for pick up by the Village.
12. Any mailboxes that are in conflict with the proposed construction shall be removed and replaced in accordance with the Village standards. This work will be included in the contract. Mail service shall be maintained all the times. Contractor must be careful with the existing mailboxes. Any damaged mailboxes shall be replaced by the Contractor at no additional cost to the homeowner or the Village.
13. Existing driveway pavement, sidewalk, and curb and gutter to remain in place shall be saw cut full depth to provide a neat vertical face between the proposed and the existing structure. This work shall be considered incidental to each pay item.
14. Brick driveway pavement shall be constructed on 8-inches of compacted CA-6 Grade 8 crushed limestone base (2 lifts) topped with 1-inch of sand, price of which shall be included in the pay item brick driveway pavement. No extra compensation will be allowed.
15. Class D patches shall be constructed at locations determined by the engineer in the field. Any saw cuts associated with this pay item will be considered incidental and no extra compensation will be made. Any subbase removal beneath it will also be incidental.
16. Any roots encountered while removing the sidewalk or driveway aprons shall be saw-cut and disposed by the Contractor.
17. Tree root pruning shall be provided at each tree location, the price of which shall be included in the pay item tree root pruning. No extra compensation will be allowed.
18. Limits of curb & gutter and sidewalk removal are approximate and shall be marked in field by Engineer/Owner. Limits are subject to change.
19. All items which are damaged or disturbed as a result of work shall be replaced to existing condition or better at the contractor's expense.
20. Access to streets and private driveways shall be provided at all times except during actual construction adjacent thereto. Temporary ramps shall be constructed as necessary to provide such access utilizing crushed aggregate (cost incidental). It will be the Contractor's responsibility to notify the residents and businesses when access to their driveways will be temporarily closed due to curb and gutter, driveway or sidewalk replacement. The contractor shall distribute Village approved notices of anticipated closures. Every effort shall be made to accommodate access to these properties involving placement of pavement in stages across driveways and knocking on doors when driveways will be closed.
21. Contractor shall ensure that access by Mail Delivery, Garbage Removal, School Buses and Emergency Vehicles on public streets is maintained at all times.
22. Restoration limits for topsoil and sod shall be limited to maximum of 2-ft immediately adjacent to edge of removed and replaced curb and gutter, sidewalk or driveway. Any additional disturbed areas will not be paid for.

CONC. CURB, SIDEWALK & PAVING NOTES

1. The finished hot-mix asphalt surface course shall be constructed to 1/4" above the edge of gutter flag.
2. The proposed curb and gutter shall be depressed at abutting sidewalks and across driveways as indicated on the plans.
3. Saw cutting required for removal of existing driveway pavement, sidewalk, curb and gutter and where the proposed pavement abuts existing pavement to remain in place (begin, end and limits of construction) shall be as specified in article 440 of the Standard Specifications. Provide a neat vertical face between the proposed and existing surfaces. Saw cutting shall be included in the pay item being removed. All saw cutting shall be full depth.
4. Curb & gutter and driveway removal and replacement work shall be limited to one side of the street in each direction at a time to minimize congestion. Full depth saw cut 1 feet minimum off of edge of pavement is required prior to C&G removal to allow space for proper compaction of pavement base course (incidental).
5. Construction operations involving temporary closing of driveways or roads shall not commence without at least three (3) working days prior notice to the Village by the Contractor. The Contractor will also be required to provide 48 hours notice to affected parties by distributing written notices and posting signs.
6. Construct temporary ramps to adjoining pavement or driveways as needed or directed by Engineer. These ramps must be minimum two car wide and shall be constructed for the entire width of pavement removal. These ramps shall be constructed using crushed limestone CA-6, Gr-8, virgin material or as directed by the Engineer. Proper temporary driveway entrance signs must be installed. The Contractor is responsible to maintain open access to all side streets, homes, industries, and businesses at all times. These temporary ramps shall be considered incidental to pavement removal and will not be paid for separately.
7. All the density tests will be performed by using cores.
8. Leveling binder shall be used around the structures in the roadway in variable thickness as necessary or as determined by the engineer.
9. Protective coating for all concrete surfaces shall be considered included in cost of respective pay items.
10. Proposed $\frac{3}{4}$" preformed expansion joint is required at concrete sidewalk, driveways and curb and gutter and shall be incidental to the curb and gutter removal and replacement.
11. In areas where the existing driveway, sidewalk or curb and gutter is to be removed and replaced, the removal and disposal of any additional material, as well as the placement of any additional aggregate material, required to establish the proposed driveway, sidewalk or curb and gutter subgrade elevation shall be included in the respective removal pay items.
12. If any milled pavement is open to traffic, the maximum grade differential between passes of milling machine shall not exceed 1.5 inches.
13. If any soft or yielding materials are detected after excavation to subgrade, the Contractor will at the direction of the Geotechnical Engineer to remove the material and replace with porous granular embankment, subgrade.
14. Sidewalks shall be installed in accordance with Village "Public Sidewalk Standards" detail. Please note that some existing sidewalks may be as thick as 10 inches in some locations. Any additional stone required to make up for this additional thickness to allow for the uniform installation of the *PCC Sidewalk, 5-inch* shall be considered incidental to this pay item. No additional compensation will be allowed for the additional base course.
15. M3.12 Curb & Gutter shall be installed in accordance with Village standard details.

DRAINAGE NOTES

1. Any saw cuts and excavation required to remove and install drainage structures or storm sewer pipe shall be considered incidental to the item being removed or installed.
2. Trench backfill used shall be CA-6 (grade-8) crushed limestone and shall be considered incidental to the item being installed. No crushed concrete will be allowed as trench backfill material. Trench backfill shall be provided up to the existing pavement grade to eliminate any voids created and to provide temporary roadway access. The backfill material shall be placed in 8 inch lifts, loose measurement, and compacted by mechanical means to the satisfaction of the engineer.
3. Contractor must imply careful method to salvage all existing pipes. If any of the existing pipes are damaged during construction; the Contractor shall replace the damaged pipe at no extra cost to the Village. No extra compensation will be allowed. Refer to Village "Trench Backfill Standard" detail.
4. Inlet and pipe protection must be installed in all open grate structures that recieve drainage from disturbed areas prior to commencing the work and shall be maintained regularly throughout the length of the project.
5. Contractor shall grade and construct improvements to provide positive drainage. Ponding water will not be permitted.
6. All Frame & Lid castings located within pavement which required adjusting to finished grade shall be backfilled with Class SI Concrete and allowed to cure for 72 hours prior to placement of surface course. Class PP Concrete shall be utilitzed if surface course is to be placed in less than 72 hours. HMA materials will not be allowed as backfill around adjusted frames. This work shall be incidental to drainage & utility structures to be adjusted.
7. All storm drainage structures in curbs shall have modified drainage structure and pipe underdrain (special) per Village of Wheeling details.

TRAFFIC / CONSTRUCTION STAGING

The Contractor shall submit a pre-planned sequence of work at the pre-construction meeting for review and approval. The Contractor's superintendent and the Resident Engineer will be required to work together with the affected residents in planning their construction schedule so as to minimize the inconvenience and maintain a reasonable level of construction efficiency. The Resident Engineer and/or the Village reserve the right to restrict work on a pavement segment if construction operations on the previous segment are unacceptable.

The sequence of traffic / construction staging is recommended in the order listed below:

Stage 1 - Drainage structure improvements
Stage 2 - Curb and gutter, driveway and sidewalk removal and replacement where identified
Stage 3 - Pavement removal (see typical section for depth of removal)
Stage 4 - Pavement replacement - Resurfacing Areas
- Repair aggregate sub-base and/or subgrade in identified deteriorated areas
- Proof-roll compacted aggregate base course areas
- Install hot-mix asphalt binder course, in one 3" lift - install hot-mix asphalt surface course

Stage 4 - Pavement replacement - Reconstruction Areas
- Proof-roll the entire subgrade
- Complete subgrade undercuts where necessary
- Install geogrid reinforcement
- Install aggregate base course
- Proof-roll the compacted aggregate base course
- Install hot-mix asphalt binder course, in one 3" lift - install hot-mix asphalt surface course

Stage 5 - Install pavement markings and restoration as required

DRIVEWAY CLOSINGS:

It will be the Contractor's responsibility to notify residents and the Village two (2) days in advance when access to the residents' driveways will be temporarily closed due to the curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to these properties (i.e. knock on doors when driveway is about to be closed).

DEBRIS REMOVAL:

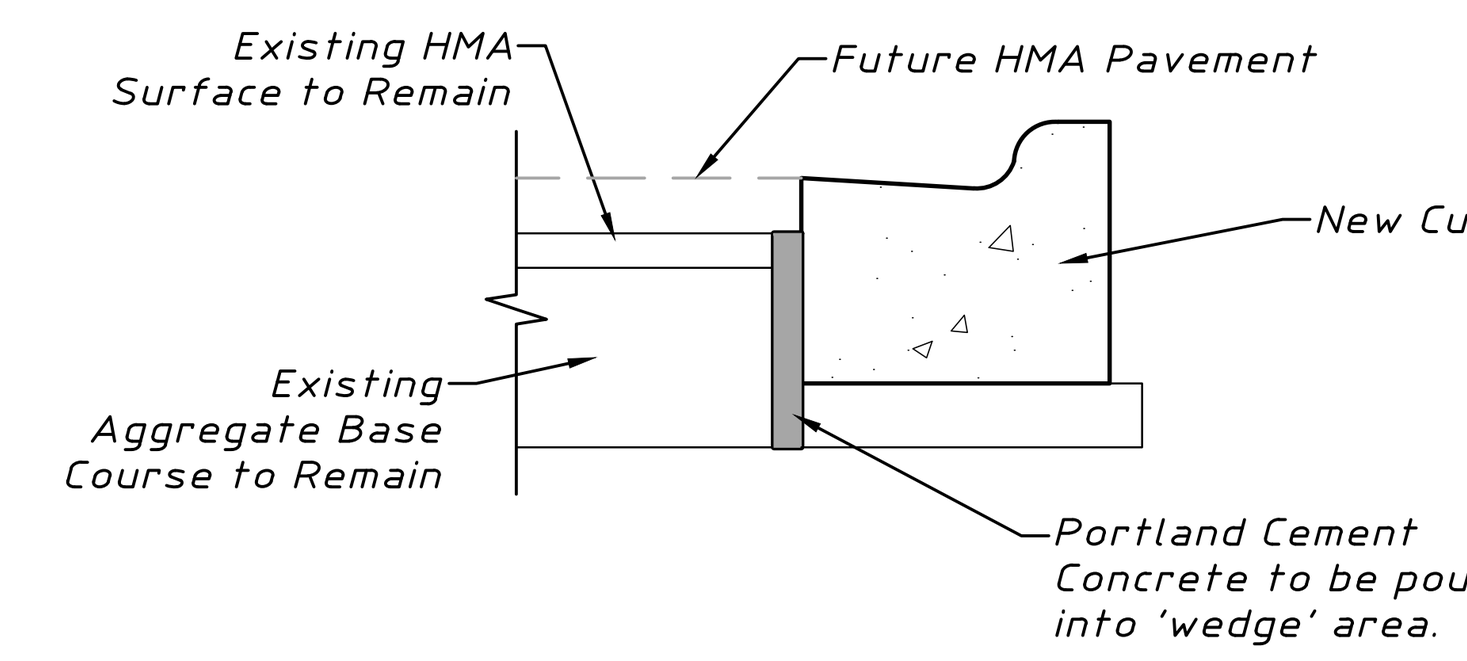
Materials resulting from the removal of pavement, driveways, curb and gutter, Hot-Mix Asphalt pavement and subgrade, etc. shall be removed at the end of each day to a village approved site. In the judgment of the Village, should it be necessary to remove such materials, the Village will have the material removed and the Contractor shall be billed (charged) accordingly.

WATER SUPPLY:

The Contractor can obtain municipal water in bulk, at NO CHARGE, as long as there is not a "watering ban" in effect. Prior to obtaining any water, an account with the Finance Department must be set up for documentation on water usage. The indiscriminate use of fire hydrants is strictly prohibited. Water for construction shall be metered or otherwise accounted for on a daily log maintained with the Public Works Department. The Contractor shall provide the water truck and driver required to obtain and transport this water. The Village reserves the right to restrict or refuse the use of Village water if deemed necessary.

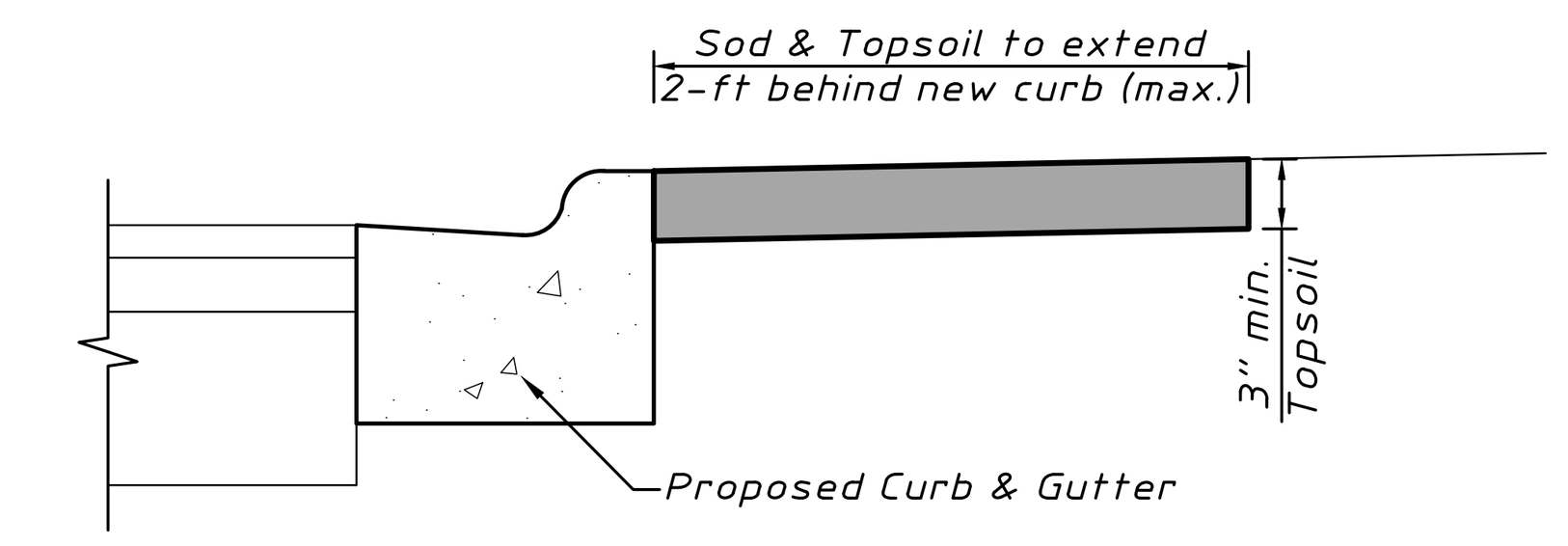
ADDITIONAL SPECIFICATIONS / INCIDENTALS NOTES:

1. Monotholically poured curb for the 'MODIFIED CURB DRAINAGE STRUCTURE TO BE ADJUSTED' shall be incidental to the cost of that pay item. No extra compensation will be paid for lineal feet of curb and gutter.
2. 'REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL' shall include the removal of all uncontaminated material required for removal in order to achieve the proposed design elevations, as well as any material required for undercut removals as directed by the Geotechnical Engineer.
3. 'REMOVAL & DISPOSAL OF CONTAMINATED WASTE' shall include the storage, removal, and proper disposal of any materials determined to be 'contaminated' in accordance with IEPA standards.
4. All existing mailboxes are to remain in service at all times. Any necessary removals and/or reinstallations of mailboxes shall be done at the expense of the Contractor and are incidental to the Contract, and shall be in accordance with Village "Mailbox Support and Attachment Design" detail.
5. Whenever the performance of work is indicated on the plan, and no pay item is included in the contract for payment, the work shall be considered incidental to the contract and no additional compensation will be allowed.



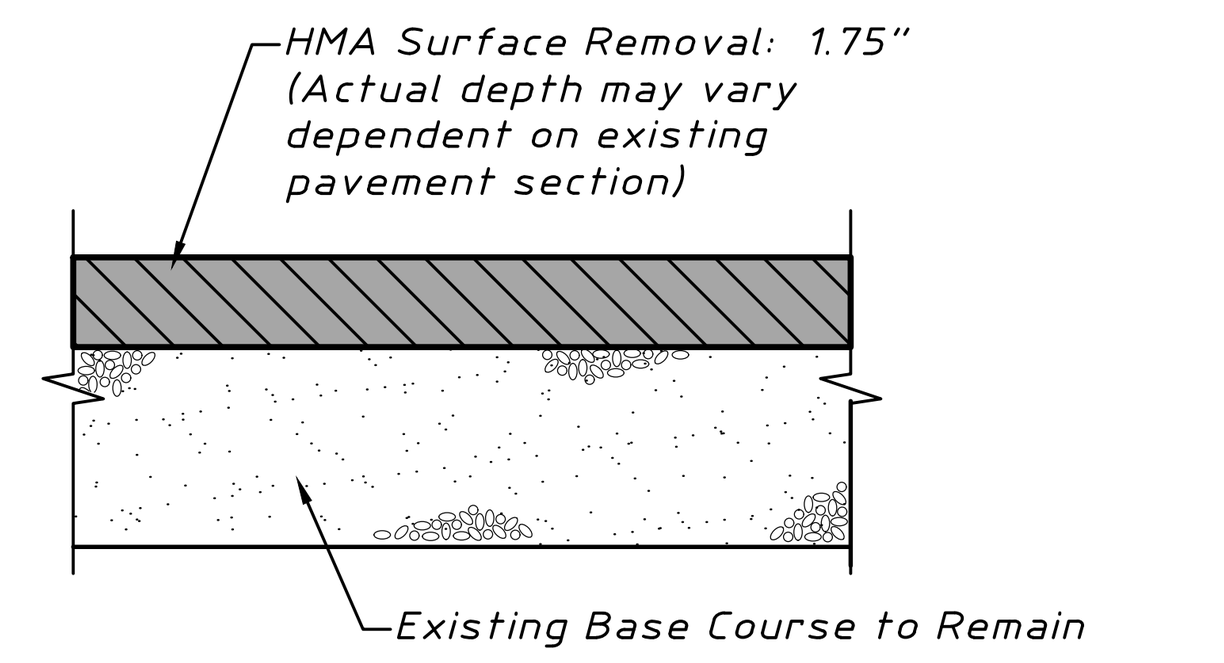
Notes:
1. This work shall only be provided in areas where some existing bituminous pavement (surface, binder, or base) is to remain adjacent to a location of curb and gutter removal and replacement (i.e. existing pavement was greater than 5" depth of removal).
2. 'Gap' or 'wedge' area will occur between existing edge of pavement and new gutter flag.
3. Portland cement concrete shall be poured within the 'wedge' area up to the top of the final design base course elevation that will allow for uniform placement of 3" HMA binder and 2" HMA surface courses.

CURB WEDGE AREA BACKFILL



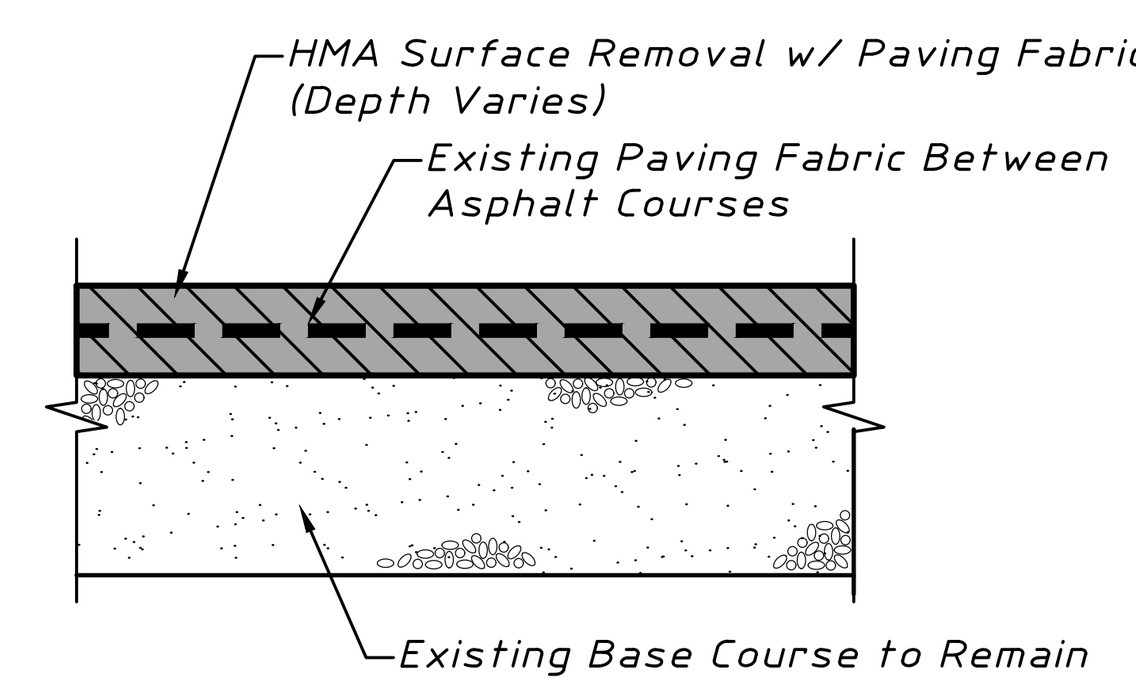
Notes:
1. Restoration limits for topsoil and sod shall be limited to a maximum of 2-ft immediately adjacent to the edge of removal and replaced curb & gutter, sidewalk, and driveway removals.
2. Any additional disturbed areas will not be measured or paid for unless directed by Engineer and approved in writing.

TOPSOIL FURNISH & PLACE, 3-INCH / SODDING, SALT-TOLERANT



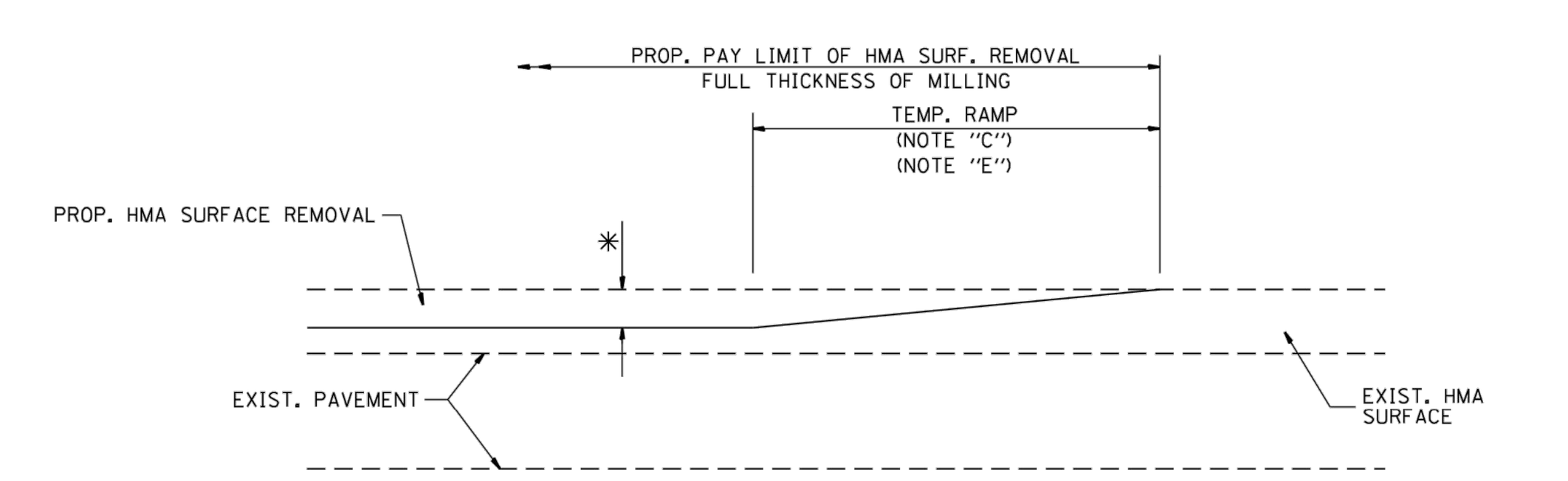
Notes:
1. This work shall include the removal and disposal of HMA/bituminous surface to allow for the uniform placement of a 2" HMA surface course to the proposed design elevations ('Resurface' locations only).
2. The depths of actual pavement removal may vary dependent on the existing bituminous pavement section. If the existing pavement is less than 3.5" in thickness, then the Resident Engineer and/or Geotechnical Engineer may request that the removals be adjusted.
3. The Contractor is responsible for referring to the pavement core reports prepared by the Geotechnical Engineer.
4. Saw-cutting shall be provided to create a clean vertical face between existing and proposed surfaces. All saw-cuts shall be incidental to the cost of the item being removed.

HOT-MIX ASPHALT SURFACE REMOVAL, 1.75-INCH

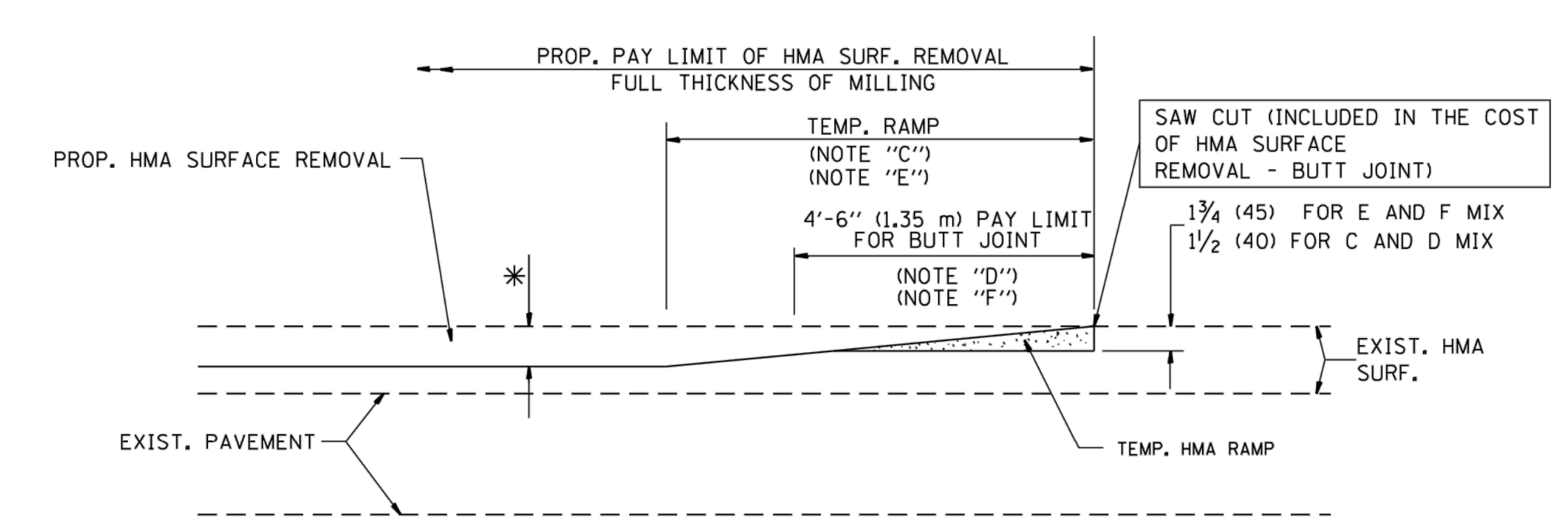


Notes:
1. This work shall include the removal and disposal of HMA bituminous surface and paving fabric to allow for the uniform placement of a 2" HMA surface course to the proposed design elevations ('Resurface' locations only).
2. The depths of actual pavement removal may vary dependent on the existing bituminous pavement section. If the existing pavement is less than 3.5" in thickness, then the Resident Engineer and/or Geotechnical Engineer may request that the removals be adjusted.
3. The Contractor is responsible for referring to the pavement core reports prepared by the Geotechnical Engineer.
4. Saw-cutting shall be provided to create a clean vertical face between existing and proposed surfaces. All saw-cuts shall be incidental to the cost of the item being removed.

HOT-MIX ASPHALT SURFACE REMOVAL, 1.75-INCH, WITH PAVING FABRIC

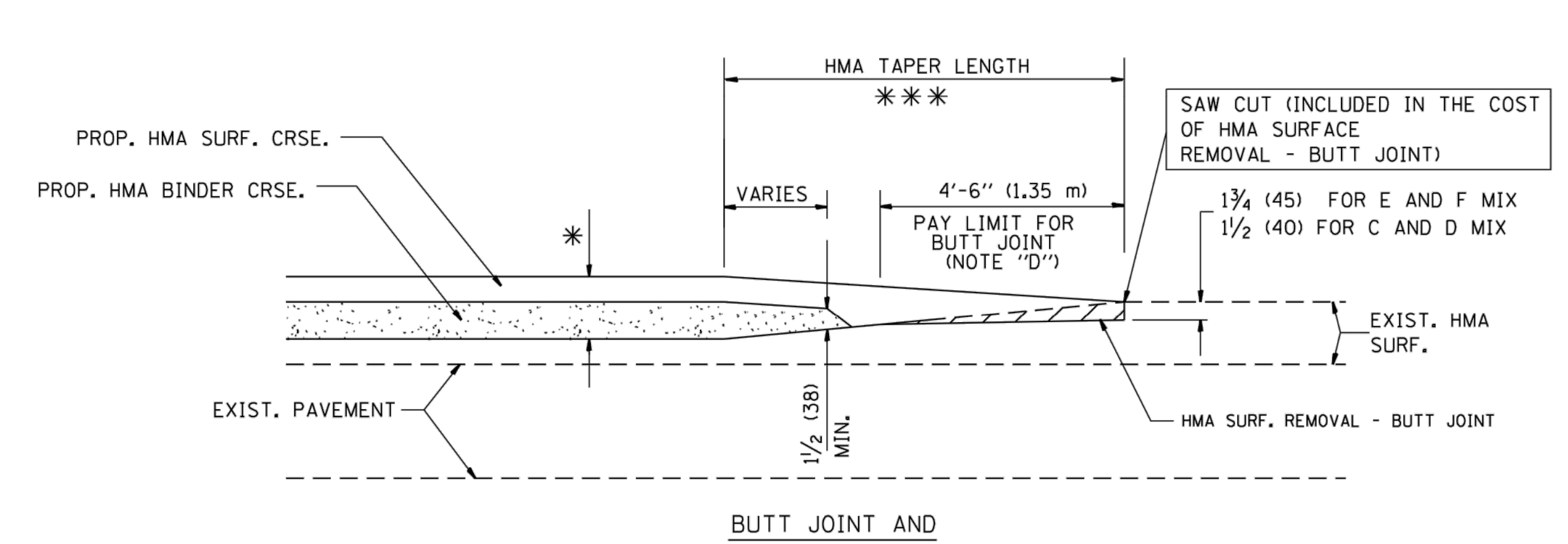


MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)
OPTION 1



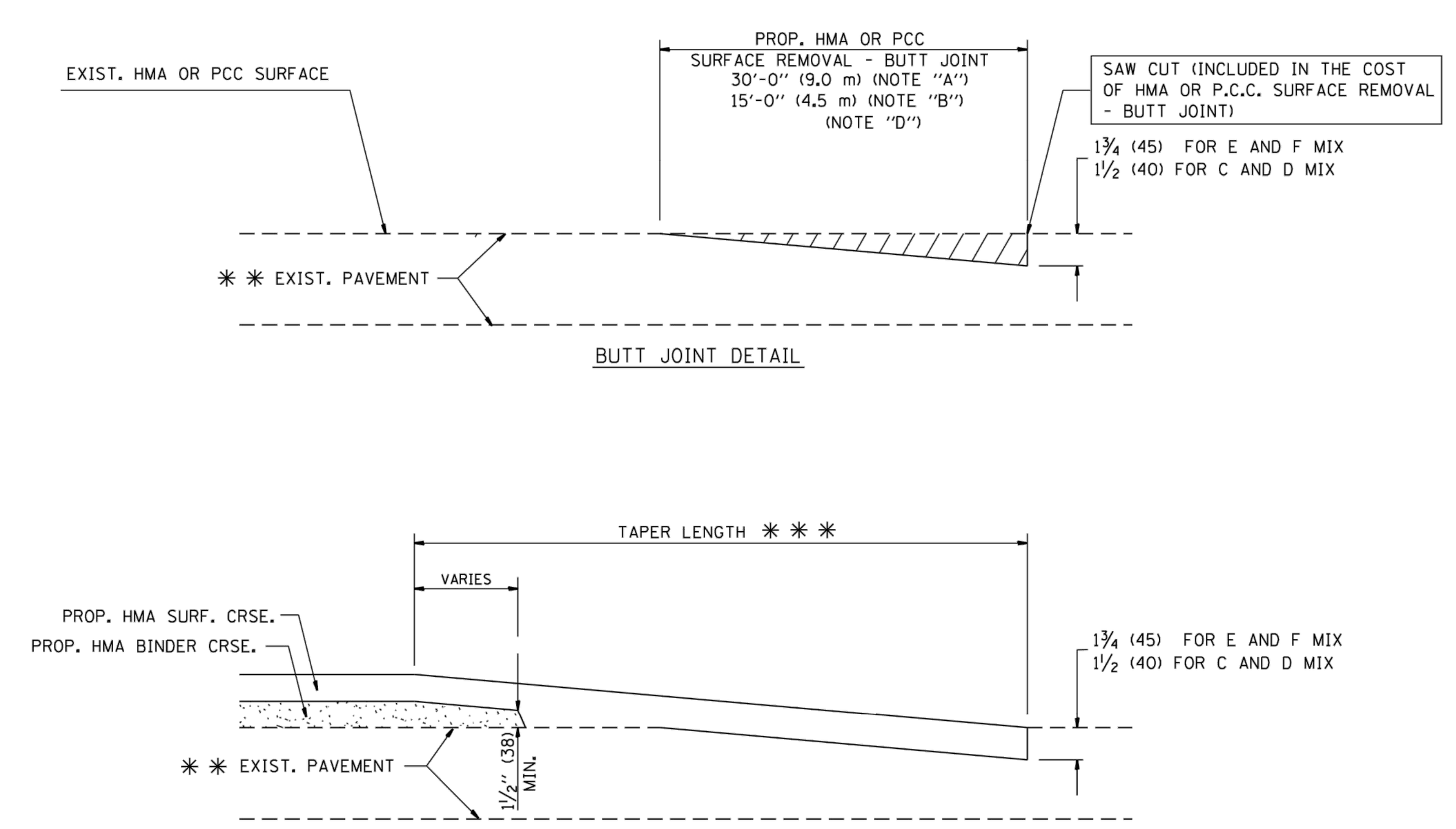
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)
OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

✳✳ PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

✳ SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

✳✳✳ 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = c:\pw_work\pwidot\bakermo\d0331242\D118313-sht-plan.dgn	USER NAME = Bakerom	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT DATE = 6/2/2014	CHECKED -	REVISED - M. GOMEZ 04-06-01
		DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	(17&18) RS-6	WILL	33	27
	BD400-05 BD32	CONTRACT NO. 60W12		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

No. | Date | Revision

HAEGER ENGINEERING
consulting engineers · land surveyors
100 E. State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003152
www.haegerengineering.com

GENERAL NOTES & TYPICAL SECTIONS

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03-06-2020
Project No. 19-197
Sheet **C2.0** / C24

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Plot Date: Mar 06, 2020 - 2:32pm Plotted By: josh-l
File Name: C:\Users\josh-l\appdata\local\temp\AcPublish_16052\19197-TITLE-NOTES-DETAILS.dwg

SUMMARY OF ESTIMATED QUANTITIES

No.	Item	Units	Hopi Tr	Lodge Tr ^ (North)	Pueblo Tr ^ (North)	Tahoe Circle Dr	Northbury Ln	Boxwood Dr	Driftwood Ct	Elmwood Ln	Ferndale Ct	Ironwood Ct	Oakmont Ln	Plumtree Ct	Scanlon Dr	Southbury Ln	Thorndale Ct	Thornhill Ln	Wildberry Ct	Bridget Pl	Cindy Ln	Laurel Ct	Linda Ter	Sandra Ln	Wayne Pl ^	Renee Ter	Total Quantity
1	TREE ROOT PRUNING	EACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**24**
2	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	CY	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**50**
3	SPECIAL WASTE DISPOSAL	CY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**50**
4	POROUS GRANULAR EMBANKMENT, SUBGRADE	CY	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**100**
5	HOT-MIX ASPHALT SURFACE REMOVAL, 1.75-INCH	SY	0	1,360	869	8,166	152	426	0	0	425	410	369	705	4,163	390	393	1,745	1,060	1,676	4,231	0	0	0	1,032	719	**28,291**
6	HOT-MIX ASPHALT SURFACE REMOVAL, 1.75-INCH, W/ PAVING FABRIC	SY	1,069	0	0	0	0	0	1,009	346	0	0	0	0	0	0	0	0	0	0	0	1,208	2,208	1,314	1,032	2158	**10,344**
7	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**100**
8	CLASS D PATCHING, TY II, 10-INCH	SY	53	68	43	408	8	21	50	17	21	21	18	35	208	20	20	87	53	84	212	60	110	66	103	144	**1,932**
9	DRIVEWAY PAVEMENT REMOVAL	SY	52	58	76	176	0	28	62	41	28	27	40	27	101	40	26	102	57	47	143	29	68	38	77	114	**1,456**
10	COMBINATION CONCRETE C&G REMOVAL - PARTIAL	LF	656	814	547	2,483	0	0	0	0	0	0	0	0	0	0	0	0	0	423	1,077	259	950	596	530	748	**9,083**
11	COMBINATION CONCRETE C&G REMOVAL - COMPLETE	LF	0	0	0	0	44	354	715	374	386	333	406	514	2,356	410	353	1,260	745	0	0	0	0	0	0	0	**8,250**
12	SIDEWALK REMOVAL	SF	0	0	0	150	80	200	0	0	0	200	0	0	200	100	0	100	100	0	275	100	200	100	0	175	**1,980**
13	HOT-MIX ASPHALT - TACK COAT *	POUND	481	612	391	3,675	69	192	454	156	191	185	166	317	1,873	176	177	785	477	754	1,904	544	994	591	929	1295	**17,386**
14	LEVELING BINDER (MACHINE METHOD), N50	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**50**
15	LEVELING BINDER (HAND METHOD), N50	TON	2.1	2.7	1.7	16.3	0.3	0.9	2.0	0.7	0.9	0.8	0.7	1.4	8.3	0.8	0.8	3.5	2.1	3.4	8.5	2.4	4.4	2.6	4.1	5.8	**77.3**
16	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**50**
17	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50	TON	120	153	98	919	17	48	113	39	48	46	41	79	468	44	44	196	119	189	476	136	248	148	232	324	**4,346**
18	COMBINATION CONCRETE CURB & GUTTER, TY M, (SPECIAL) - M3.12 * - PARTIAL	LF	656	814	547	2,198	0	0	0	0	0	0	0	0	0	0	0	0	0	423	1,077	259	950	596	530	748	**8,798**
19	COMBINATION CONCRETE CURB & GUTTER, TY M, (SPECIAL) - M3.12 * - COMPLETE	LF	0	0	0	0	44	354	715	374	386	333	406	514	2,356	410	353	1,260	745	0	0	0	0	0	0	0	**8,250**
20	COMBINATION CONCRETE CURB & GUTTER, TY B - B6.12 - PARTIAL	LF	0	0	0	285	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**285**
21	CURB WEDGE AREA BACKFILL (P.C.C.)	LF	656	814	547	2,483	44	354	715	374	386	333	406	514	2,356	410	353	1,260	745	423	1,077	259	950	596	530	748	**17,333**
22	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6-INCH *	SY	52	58	76	176	0	0	2	2	0	0	2	1	5	2	1	3	2	44	108	12	46	32	61	85	**767**
23	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5-INCH *	SY	0	0	0	0	0	28	60	39	27	27	38	25	96	38	26	99	55	3	32	11	23	6	15	26	**675**
24	BRICK PAVEMENT REMOVAL & RESET *	SY	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	6	0	0	2	2	**25**
25	PCC SIDEWALK, 5-INCH	SF	0	0	0	150	80	200	0	0	0	200	0	0	200	100	0	100	100	0	275	100	200	100	0	175	**1,980**
26	DETECTABLE WARNINGS	SF	0	0	0	40	10	40	0	0	0	40	0	0	40	20	0	20	20	0	88	32	64	32	0	56	**502**
27	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	5	3	2	17	0	0	0	0	0	0	0	0	0	0	1	0	0	3	7	1	2	3	1	3	**48**
28	REMOVAL OF EXISTING STORM STRUCTURES	EACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	1	0	**6**
29	MODIFIED CURB DRAINAGE STRUCTURE STANDARD *	EACH	4	2	2	14	1	2	0	1	0	1	0	1	0	0	0	2	0	4	0	0	4	2	8	0	**48**
30	INLET & PIPE PROTECTION *	EACH	4	3	2	17	2	2	2	2	1	1	1	3	8	1	0	6	1	13	11	2	8	6	13	4	**113**
31	CATCH BASIN, TYPE C	EACH	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0	**6**
32	CATCH BASIN, TYPE A, 48-INCH	EACH	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	**6**
33	CATCH BASIN, TYPE A, 60-INCH	EACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	**3**
34	CATCH BASIN, RESTRICTED DEPTH	EACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**2**
35	MANHOLE, TYPE A, 48-INCH	EACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	2	2	6	0	**13**
36	MANHOLE, TYPE A, 60-INCH	EACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	**3**
37	MANHOLE, RESTRICTED DEPTH	EACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	**3**
38	STORM SEWER, PVC, 10-INCH	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	0	0	46	31	66	0	**230**
39	STORM SEWER, RCP, 10-INCH	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	**27**
40	STORM SEWER, RCP, 12-INCH	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	0	0	0	0	0	137	127	0	**343**
41	STORM SEWER, RCP, 15-INCH	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	416	0	**416**
42	STORM SEWER, RCP, 18-INCH	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	**13**
43	MOBILIZATION	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**1**
44	TRAFFIC CONTROL AND PROTECTION STANDARD 701501	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**1**
45	TRAFFIC CONTROL AND PROTECTION STANDARD 701701	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**1**
46	TRAFFIC CONTROL AND PROTECTION STANDARD 701801	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**1**
47	THERMOPLASTIC PAVEMENT MARKING LINE - 4-INCH	LF	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**500**
48	THERMOPLASTIC PAVEMENT MARKING LINE - 6-INCH	LF	0	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**50**
49	THERMOPLASTIC PAVEMENT MARKING LINE - 24-INCH	LF	12	12	12	104	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	12	0	**164**
50	EPOXY STRIPING, 18-INCH	LF	0	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**90**
51	EPOXY STRIPING, 24-INCH	LF	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**15**
52	CONSTRUCTION LAYOUT	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**1**
53	DUST CONTROL WATERING	UNIT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**24**
54	TOPSOIL FURNISH & PLACE, 3-INCH	SY	146	181	122	558	13	88	159	83	86	83	90	114	532	96	78	284	170	94	252	62	220	137	118	174	**3,940**
55	SODDING, SALT TOLERANT	SY	146	181	122	558	13	88	159	83	86	83	90	114	532	96	78	284	170	94	252	62	220	137	118	174	**2,940**
56	SEEDING, CLASS 1A WITH BLANKET	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1,000**
57	SUPPLEMENTAL WATERING	UNIT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	**24**

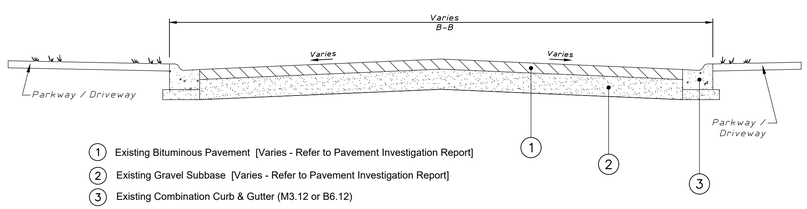
HOT-MIX ASPHALT MIXTURE REQUIREMENT TABLE

THE FOLLOWING TABLE OUTLINES THE VARIOUS REQUIREMENTS FOR EACH MIXTURE TYPE TO BE USED AS A PART OF THIS PROJECT.

ITEM	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2 - INCH	PG 64-22	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50, 3 - INCH	PG 64-22*	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, VARIABLE (AS NEEDED)	PG 64-22*	4% @ 50 GYR

NOTE:
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD/IN.

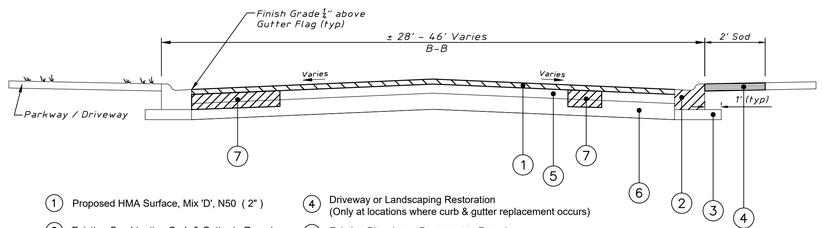
* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.



1. Existing Bituminous Pavement [Varies - Refer to Pavement Investigation Report]
2. Existing Gravel Subbase [Varies - Refer to Pavement Investigation Report]
3. Existing Combination Curb & Gutter (M3.12 or B6.12)

EXISTING TYPICAL CROSS SECTION

HMA Surface Removal, 1.75"* OR *HMA Surface Removal, Variable Depth



1. Proposed HMA Surface, Mix 'D', N50 (2")
2. Existing Combination Curb & Gutter to Remain (Curb & gutter to be 'spot repaired' where directed by the Engineer, except for Lexington Commons Streets identified for full curb replacement)
3. Existing Curb Base to Remain
4. Driveway or Landscaping Restoration (Only at locations where curb & gutter replacement occurs)
5. Existing Bituminous Pavement to Remain
6. Existing Gravel Subbase to Remain
7. Class D Patches, 7" (HMA Binder IL-19mm) At Locations Directed by Engineer

PROPOSED TYPICAL CROSS SECTION - RESURFACING

No.	Date	Revision

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SUMMARY OF QUANTITIES & ROADWAY TYPICAL SECTIONS

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03-06-2020
Project No. 19-197
Sheet C2.1 / C24

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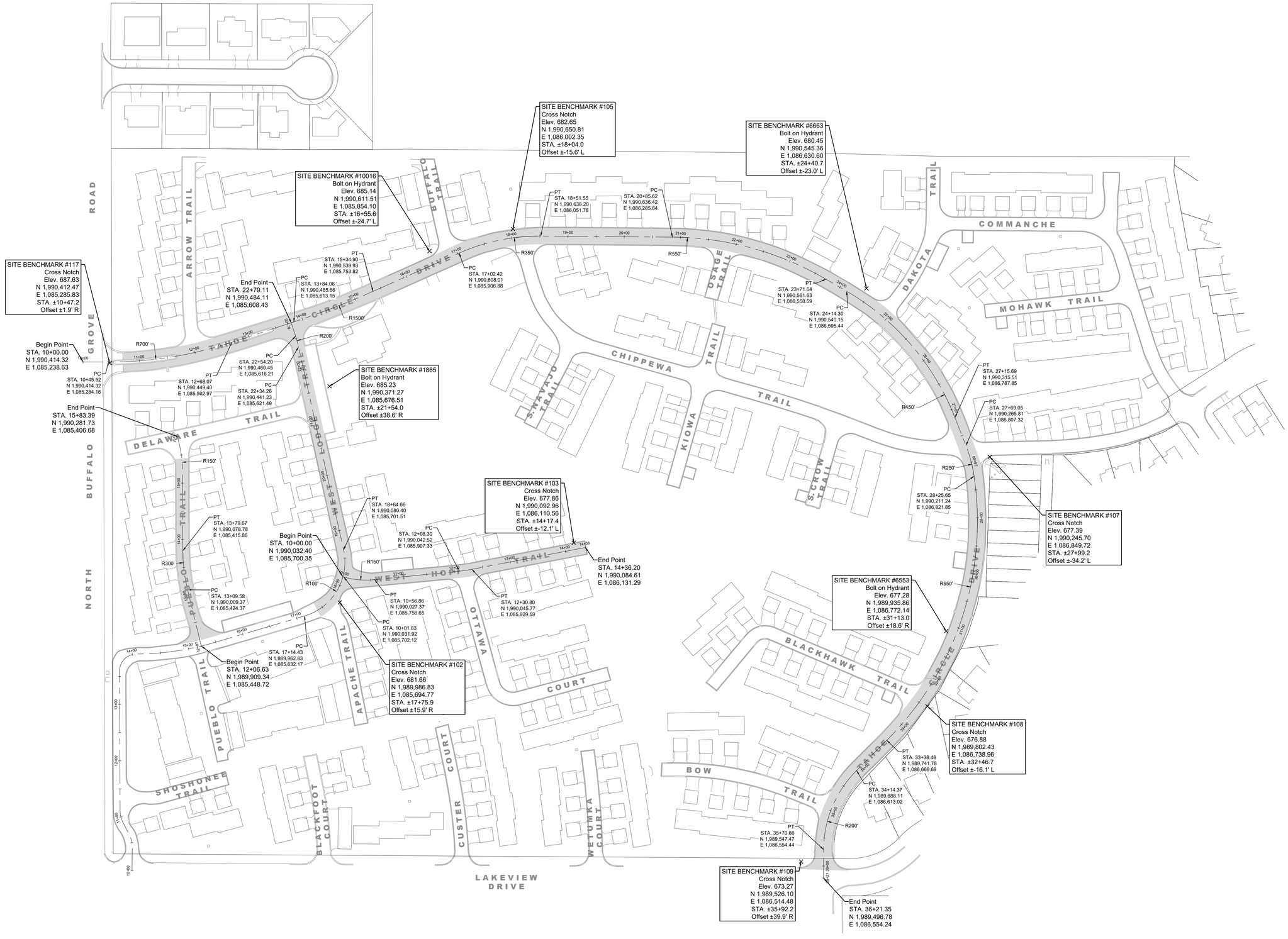

NORTH

40 0 80

Scale: 1" = 80'

No.	Revision	Date

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ALIGNMENTS, TIES, & BENCHMARKS
TAHOE VILLAGE
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C3.0 / C24

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File Name: P:\2019\19197\Drawings\Final Engineering\19197-ATB.dwg

Streets within Lexington Commons are covered by a Public Ingress and Egrees Easement granted to the Village of Wheeling at its assigns by Document No. 36876837.



NORTH

40 0 80

Scale: 1" = 80'

No.	Revision	Date

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ALIGNMENTS, TIES, & BENCHMARKS
LEXINGTON COMMONS
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C3.1 / C24

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Plot Date: Mar 06, 2020 - 11:20am Plotted By: josh-l
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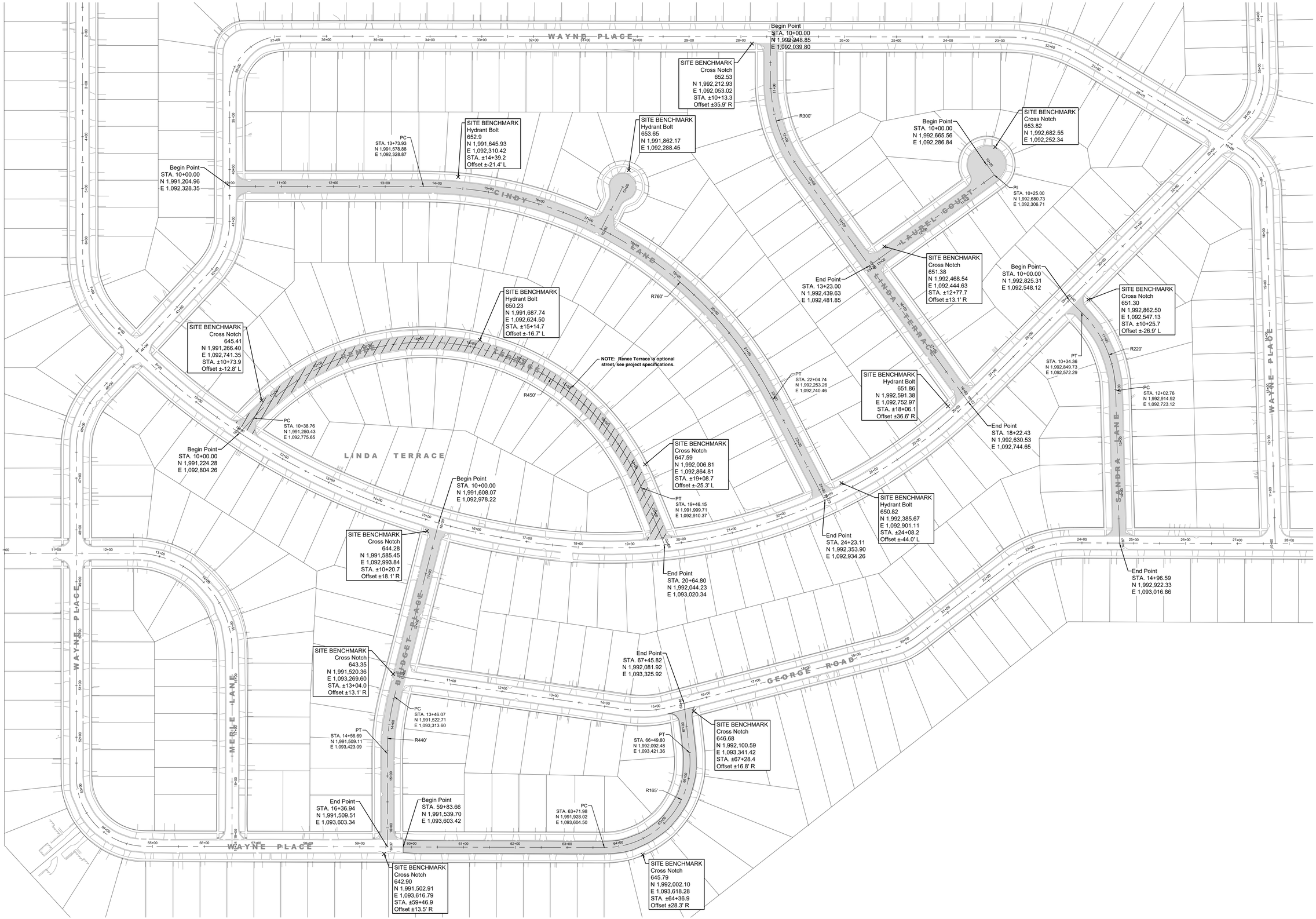

NORTH

Scale: 1" = 80'

No.	Date	Revision

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ALIGNMENTS, TIES, & BENCHMARKS
DUNHURST

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03-06-2020
Project No. 19-197
Sheet C3.2/C24

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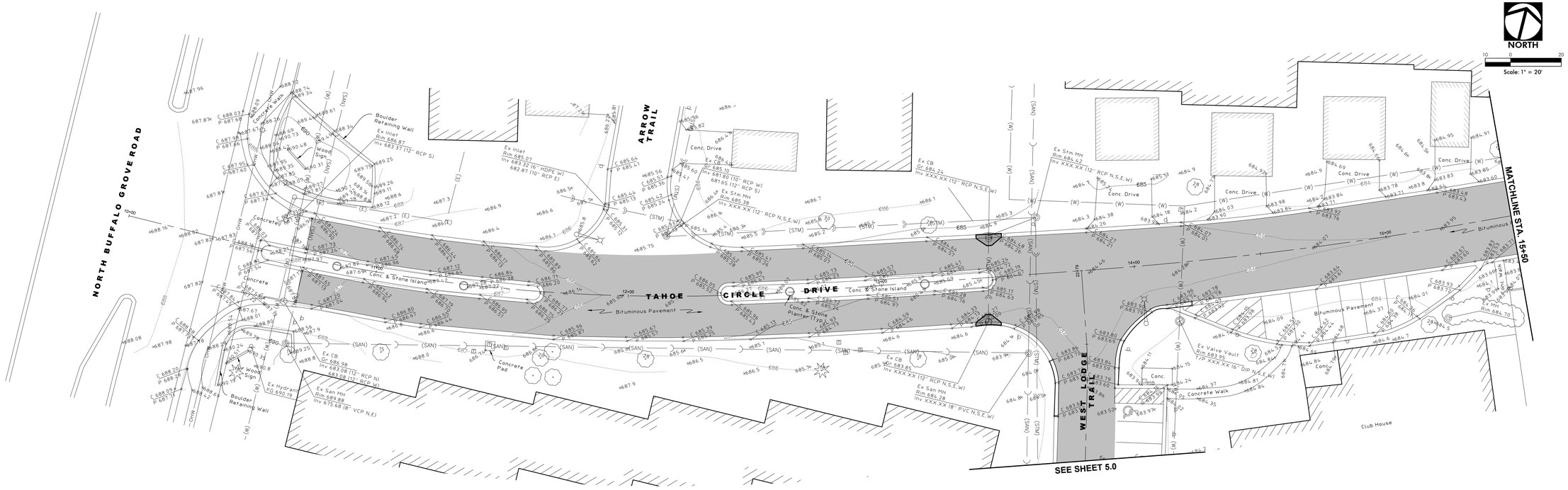

QUANTITY ASSUMPTIONS (TAHOE CIRCLE DRIVE):

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- Asphalt Driveway Aprons = 0 SY (Estimated quantity)
- Concrete Sidewalks = 150 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 3972 LF (Assumed 80% Replacement)

NOTES:

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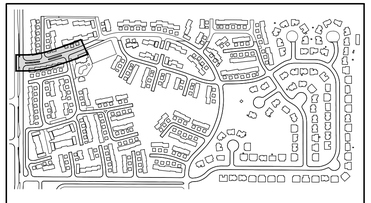
LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

No.	Revision	Date

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TAHOE CIRCLE DRIVE
STA. 10+00 TO STA. 15+50

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C4.0 / C24

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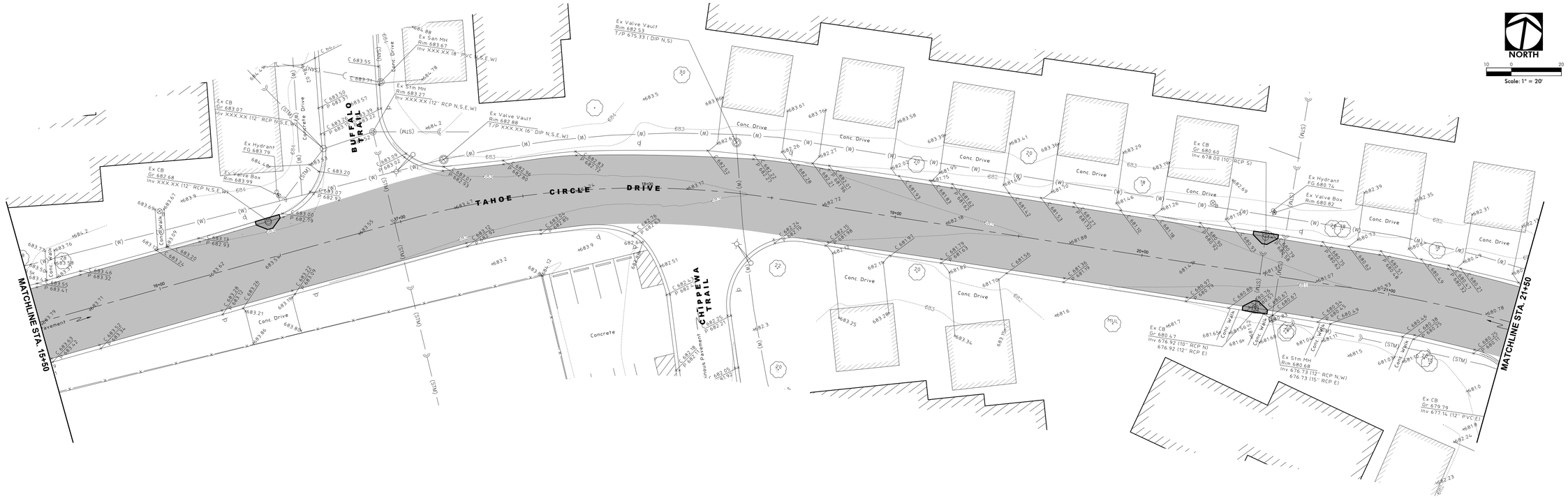

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- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
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MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
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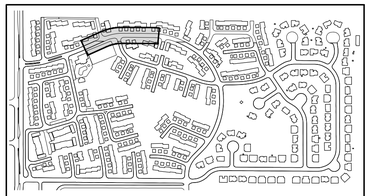

SHEET INDEX

No.	Revision	Date

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TAHOE CIRCLE DRIVE
STA. 15+50 TO STA. 21+50
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C4.1 / C24

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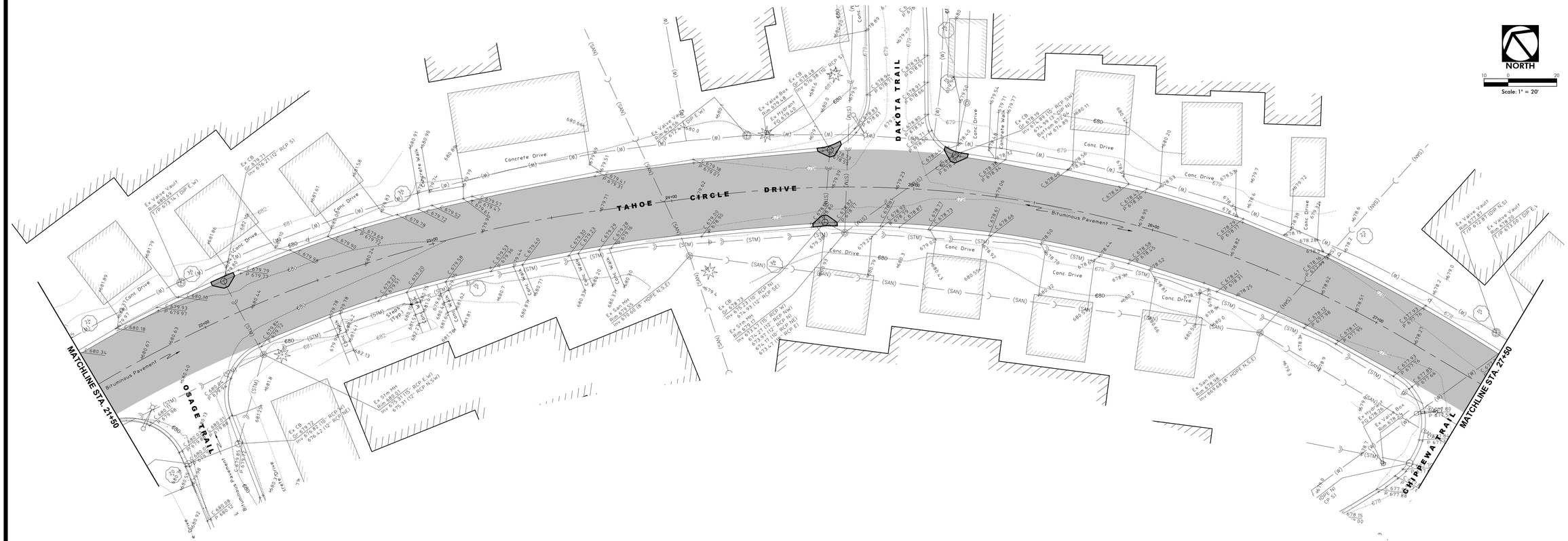

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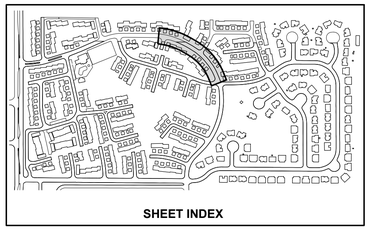

SHEET INDEX

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TAHOE CIRCLE DRIVE
STA. 21+50 TO STA. 27+50
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C4.2 / C24

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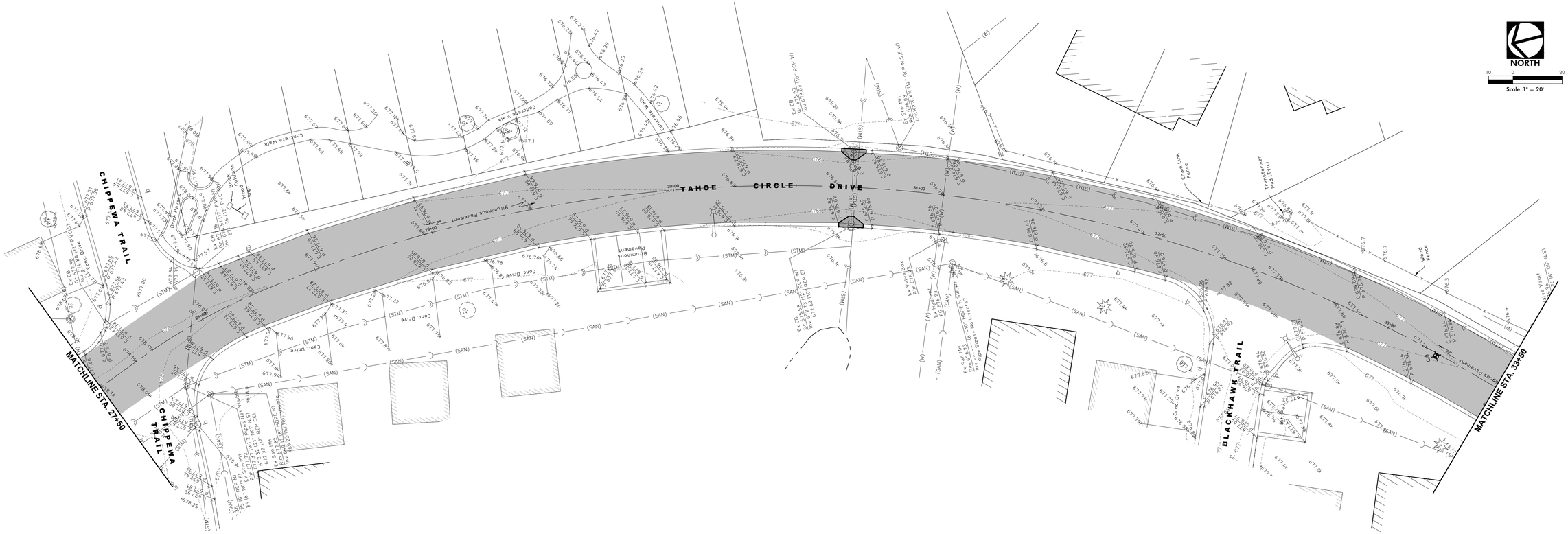

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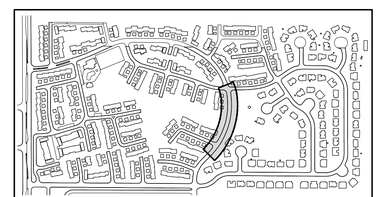

SHEET INDEX

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No.	Revision	Date

TAHOE CIRCLE DRIVE
STA. 27+50 TO STA. 33+50

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C4.3 / C24

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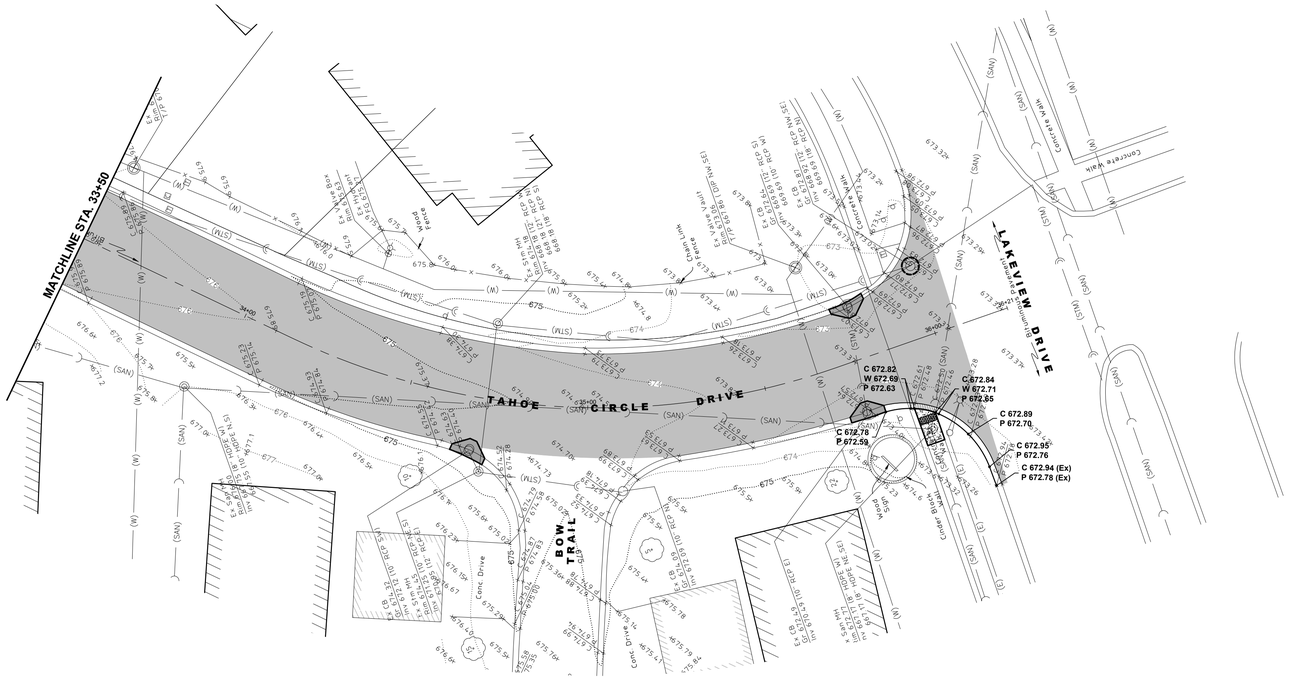

NORTH

10 0 20

Scale: 1" = 20'

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LEGEND

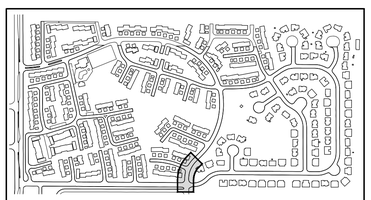
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



SHEET INDEX

No.	Revision	Date

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100 East State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No.: 184-003152
www.haegerengineering.com

TAHOE CIRCLE DRIVE
STA. 33+50 TO STA. 36+21

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C4.4 / C24

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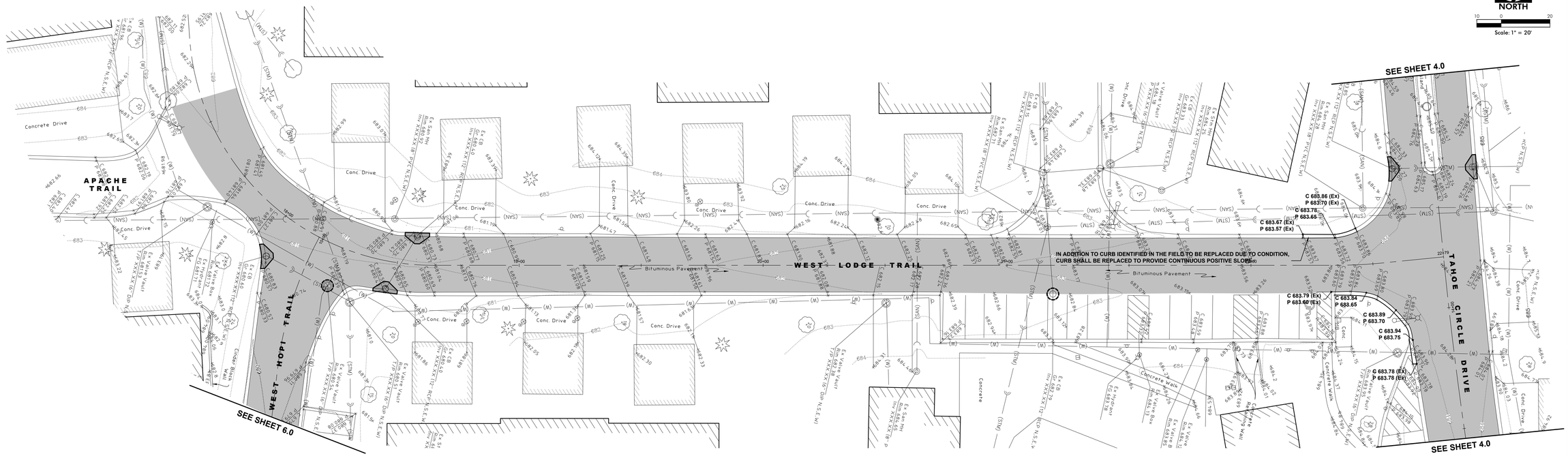
Plot Date: Mar 06, 2020 - 11:35am Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Tahoe Village.dwg



QUANTITY ASSUMPTIONS (WEST LODGE TRAIL - South Section):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 22 SY (Estimated quantity)
- Asphalt Driveway Aprons = 0 SY (Estimated quantity)
- Concrete Sidewalks = 90 SF (As Shown)
- M 3.12 Curb and Gutter = 1023 LF (Assumed 80% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

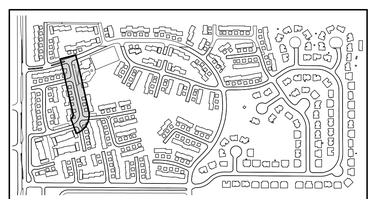
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



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www.haegerengineering.com

WEST LODGE TRAIL
STA. 10+00 TO STA. 22+79

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C5.0 / C24

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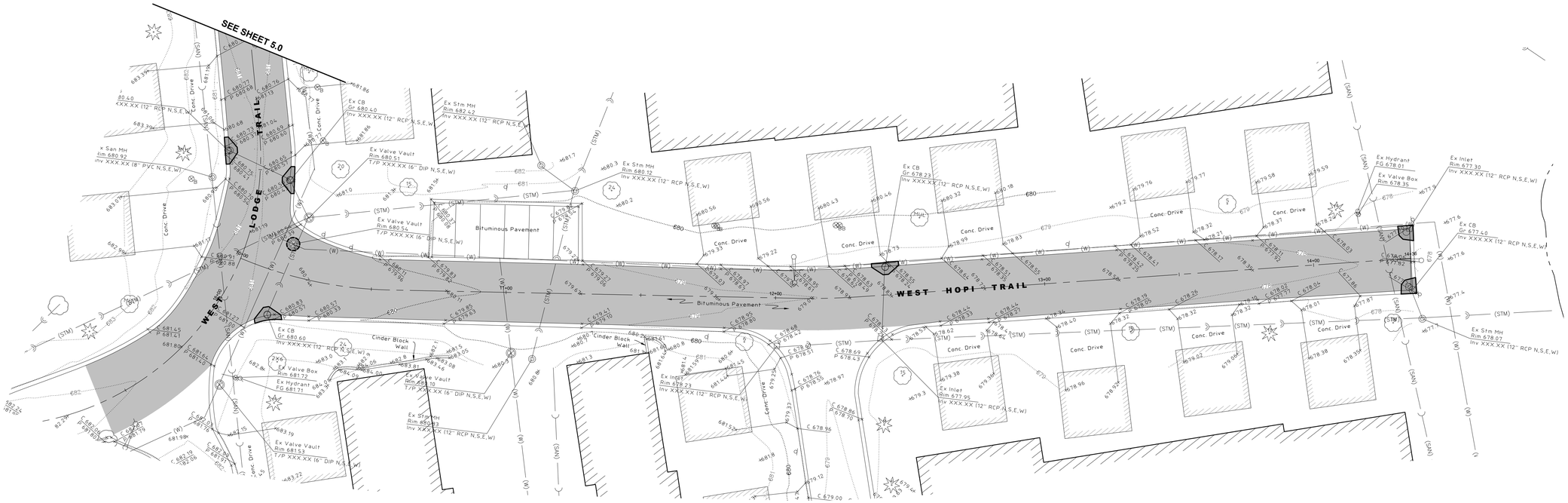
Plot Date: Mar 06, 2020 - 11:35am Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Tahoe Village.dwg



NORTH

10 0 20

Scale: 1" = 20'

QUANTITY ASSUMPTIONS (WEST HOPI TRAIL):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 52 SY (Estimated quantity)
- Asphalt Driveway Aprons = 0 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 656 LF (Assumed 80% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

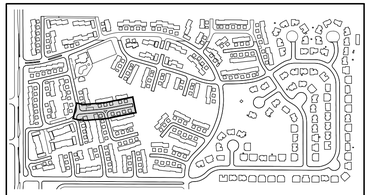
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



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www.haegerengineering.com

WEST HOPI TRAIL
STA. 10+00 TO STA. 14+36
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C6.0 / C24

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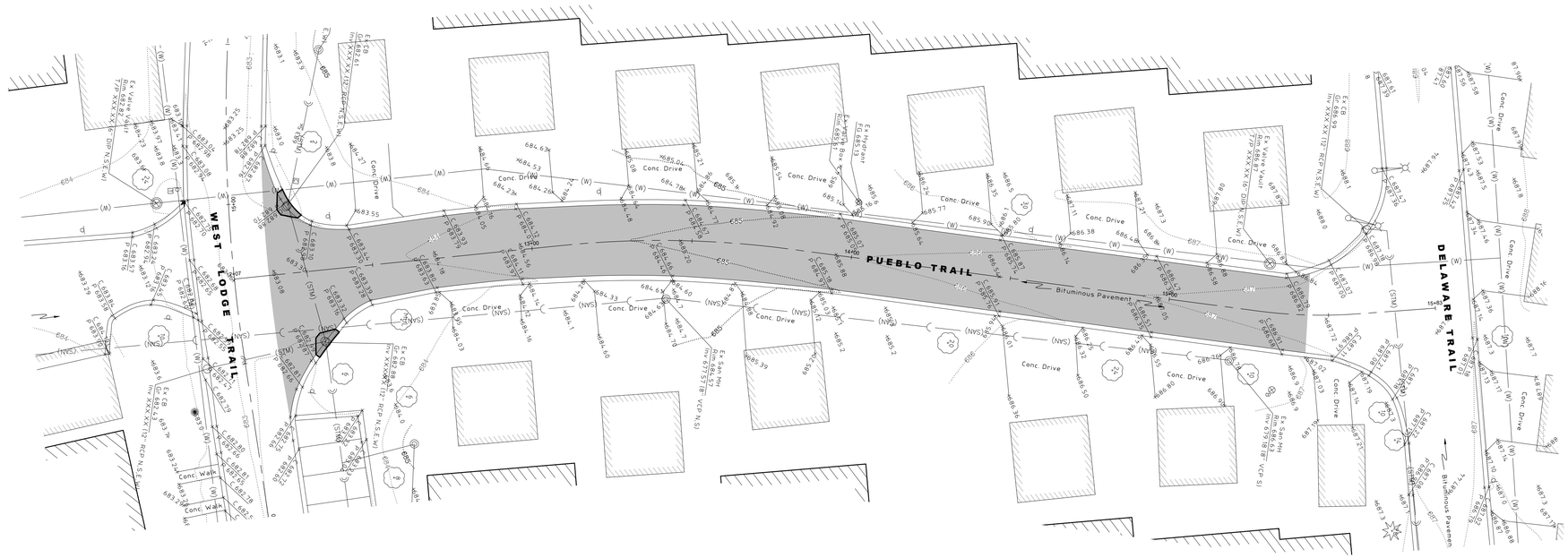


NORTH

10 0 20

Scale: 1" = 20'

QUANTITY ASSUMPTIONS (PUEBLO TRAIL - North Section):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 76 SY (Estimated quantity)
- Asphalt Driveway Aprons = 0 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 547 LF (Assumed 80% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

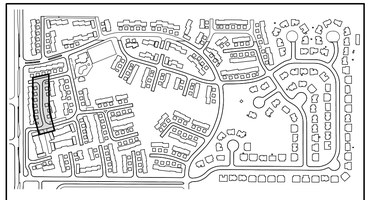
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



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PUEBLO TRAIL
STA. 10+00 TO STA. 15+83

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C7.0 / C24

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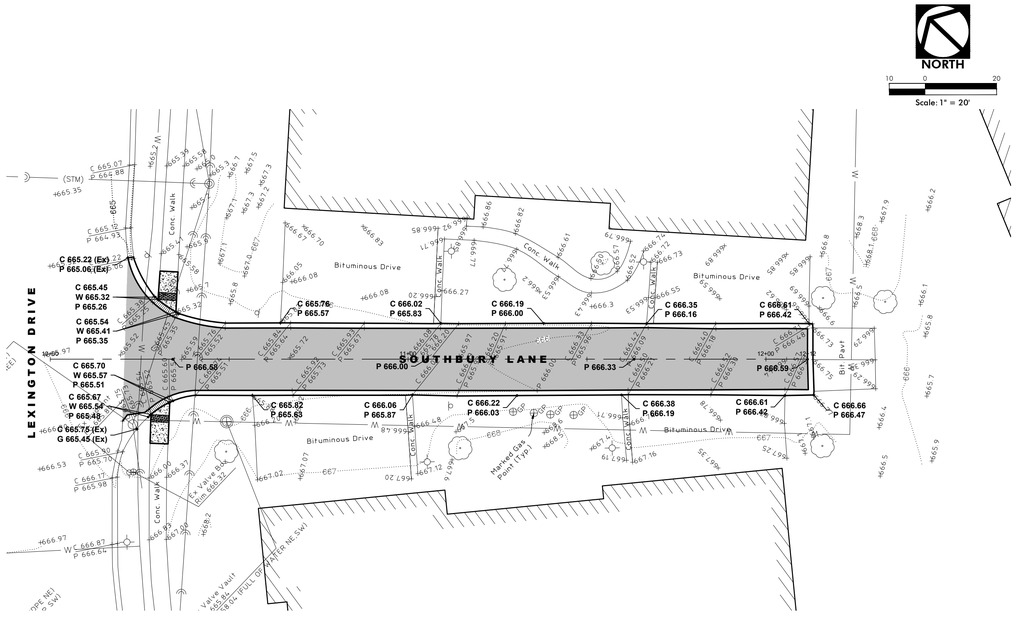

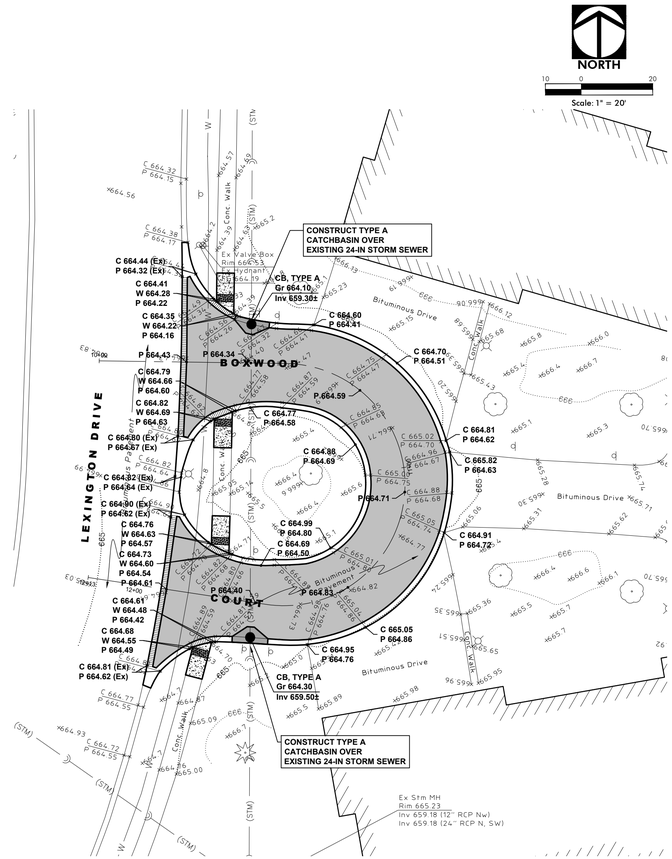
NORTH
10 0 20
Scale: 1" = 20'
CONSTRUCT TYPE A
CATCHBASIN OVER
EXISTING 24-IN STORM SEWER
BOXWOOD
COURT
LEXINGTON DRIVE
Bituminous Drive
Conc. Walk
CB, TYPE A
Gr 664.10
Inv 659.30±
CB, TYPE A
Gr 664.30
Inv 659.50±
C 664.44 (Ex)
P 664.32 (Ex)
C 664.41
W 664.28
P 664.22
C 664.35
W 664.22
P 664.16
P 664.43
C 664.79
W 664.66
P 664.60
C 664.82
W 664.69
P 664.63
C 664.80 (Ex)
P 664.67 (Ex)
C 664.82 (Ex)
P 664.64 (Ex)
C 664.90 (Ex)
P 664.62 (Ex)
C 664.76
W 664.63
P 664.57
C 664.73
W 664.60
P 664.54
P 664.61
C 664.61
W 664.48
P 664.42
C 664.68
W 664.55
P 664.49
C 664.61 (Ex)
P 664.62 (Ex)
C 664.60
P 664.41
C 664.70
P 664.51
P 664.59
C 664.77
P 664.58
C 664.88
P 664.69
C 664.81
P 664.62
C 665.82
P 664.63
P 664.71
C 664.99
P 664.80
C 664.69
P 664.50
P 664.40
P 664.83
C 664.91
P 664.72
C 665.05
P 664.86
C 664.95
P 664.76
Ex Valve Box
Rim 664.53
Ex Valve Box
Rim 664.19
Ex Valve Box
Rim 664.57
Ex Valve Box
Rim 664.58
Ex Valve Box
Rim 664.68
Ex Valve Box
Rim 664.75
Ex Valve Box
Rim 664.77
Ex Valve Box
Rim 664.72
Ex Valve Box
Rim 664.74
Ex Valve Box
Rim 664.73
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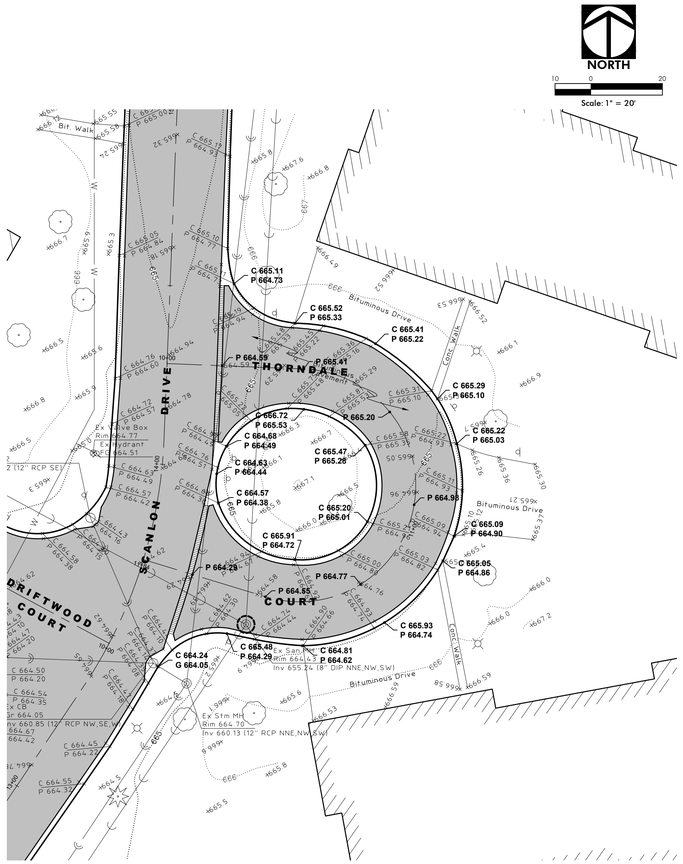
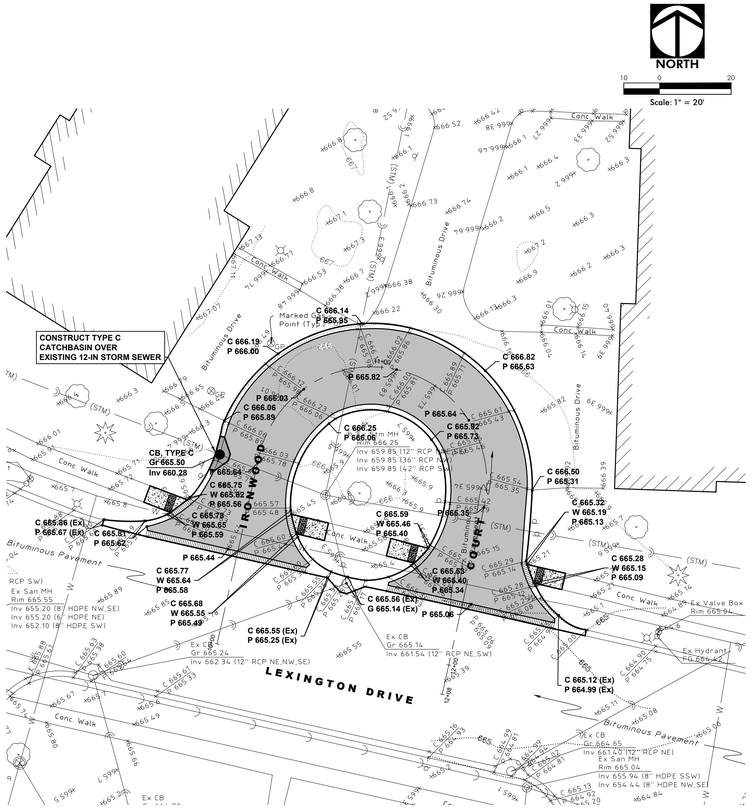
Ex Valve Box
Rim 664.64
Ex Valve Box
Rim





QUANTITY ASSUMPTIONS (THORNDALE COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 1 SY (Estimated quantity)
- Asphalt Driveway Aprons = 26 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (As Shown)
- M 3.12 Curb and Gutter = 353 LF (Assumed 100% Replacement)

QUANTITY ASSUMPTIONS (IRONWOOD COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 0 SY (Estimated quantity)
- Asphalt Driveway Aprons = 27 SY (Estimated quantity)
- Concrete Sidewalks = 200 SF (As Shown)
- M 3.12 Curb and Gutter = 333 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
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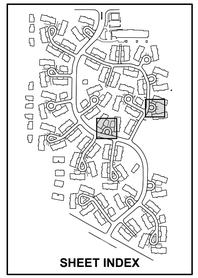
- **CURB AND GUTTER REPLACEMENT**



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THORNDALE COURT & IRONWOOD COURT

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
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Sheet	C9.0 / C24

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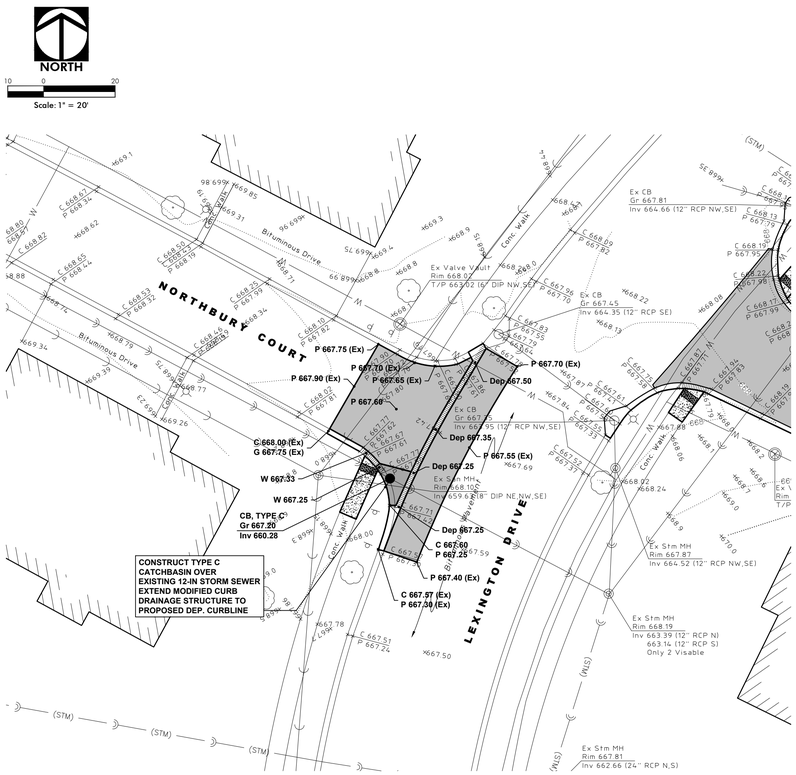

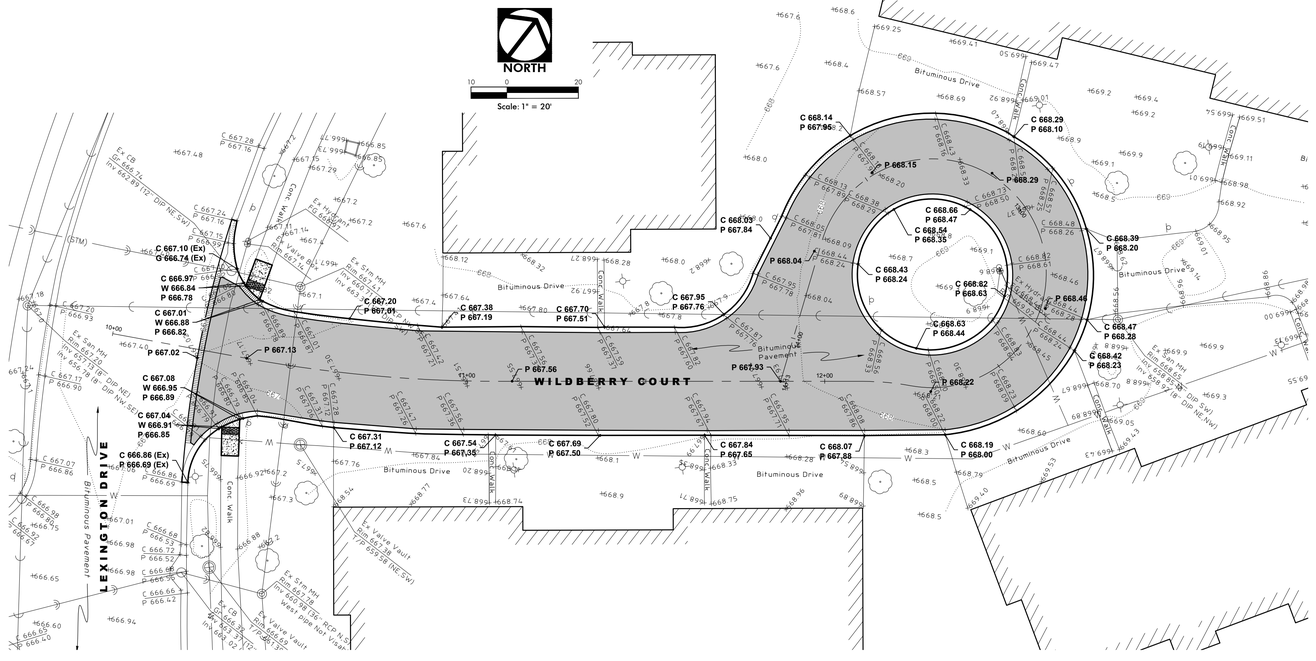

QUANTITY ASSUMPTIONS (NORTHBURY COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 0 SY (Estimated quantity)
- Asphalt Driveway Aprons = 0 SY (Estimated quantity)
- Concrete Sidewalks = 80 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 25 LF (Estimated quantity)

QUANTITY ASSUMPTIONS (WILDBERRY COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 2 SY (Estimated quantity)
- Asphalt Driveway Aprons = 55 SY (Estimated quantity)
- Concrete Sidewalks = 100 SF (As Shown)
- M 3.12 Curb and Gutter = 745 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
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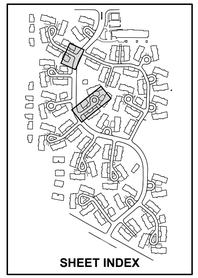

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NORTHBURY COURT
WILDBERRY COURT

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
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Date:	03-06-2020
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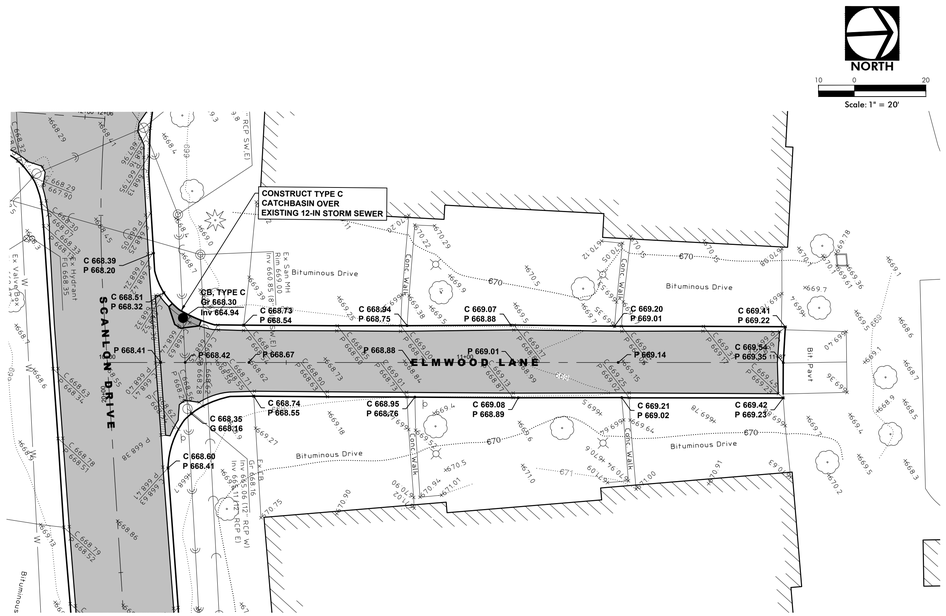
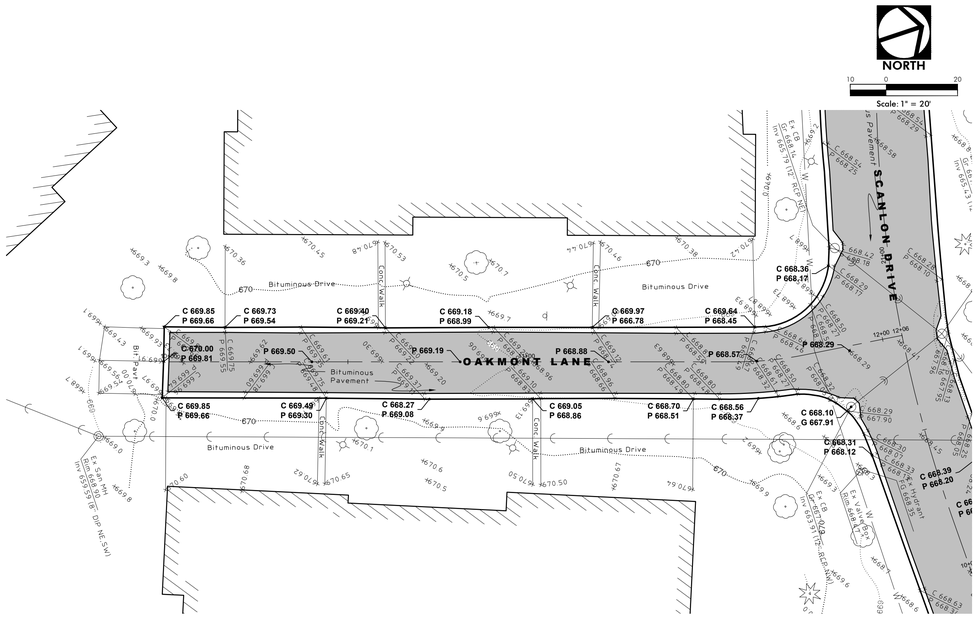




QUANTITY ASSUMPTIONS (ELMWOOD LANE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons =2 SY (Estimated quantity)
- Asphalt Driveway Aprons = 39 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (As Shown)
- M 3.12 Curb and Gutter = 374 LF (Assumed 100% Replacement)

QUANTITY ASSUMPTIONS (OAKMONT LANE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 2 SY (Estimated quantity)
- Asphalt Driveway Aprons = 38 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (As Shown)
- M 3.12 Curb and Gutter = 406 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

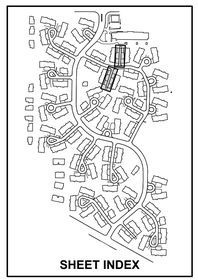
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

No.	Revision	Date

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www.haegerengineering.com

ELMWOOD LANE & OAKMONT LANE
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C11.0 / C24

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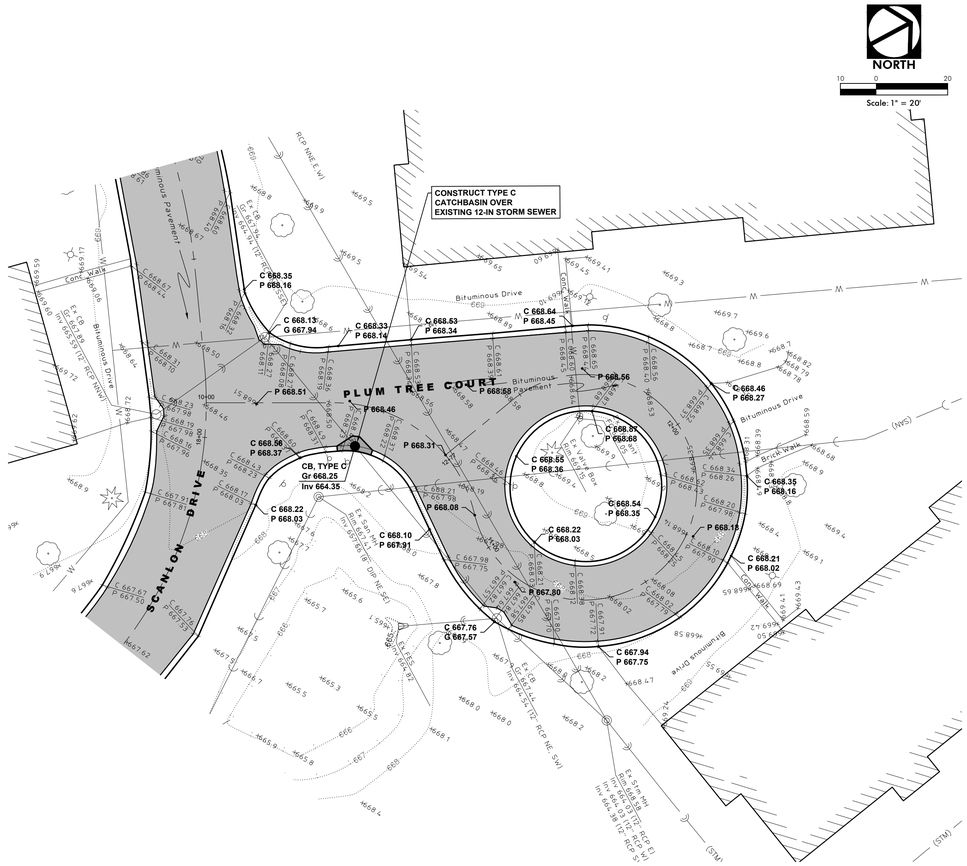
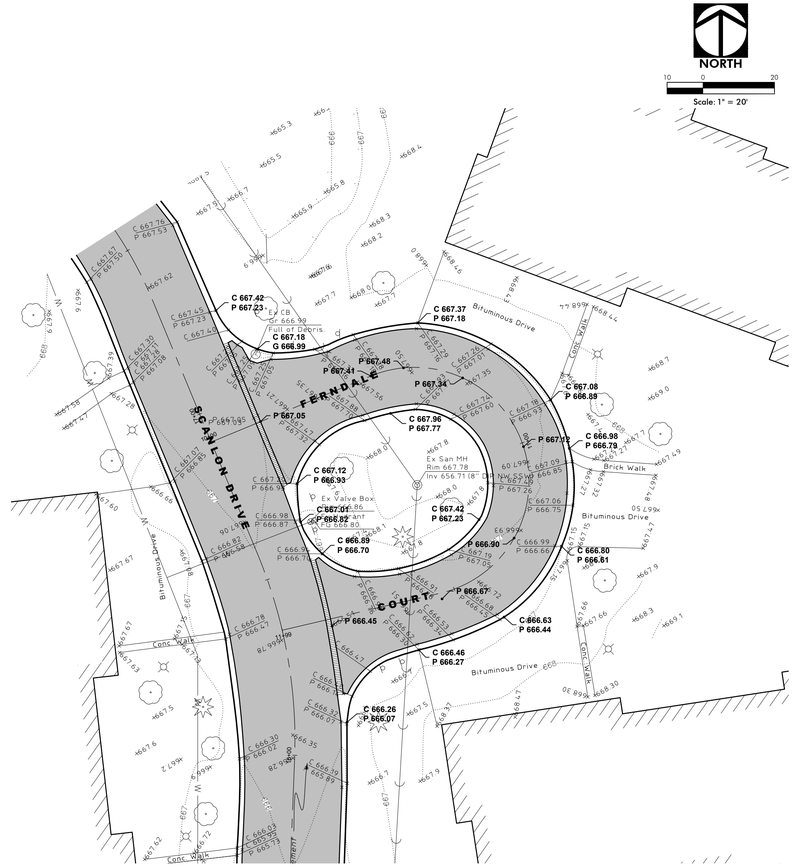
Plot Date: Mar 06, 2020 - 3:18pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Lexington Commons.dwg





QUANTITY ASSUMPTIONS (FERNDALE COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 0 SY (Estimated quantity)
- Asphalt Driveway Aprons = 27 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (As Shown)
- M 3.12 Curb and Gutter = 386 LF (Assumed 100% Replacement)

QUANTITY ASSUMPTIONS (PLUM TREE COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 1 SY (Estimated quantity)
- Asphalt Driveway Aprons = 25 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (As Shown)
- M 3.12 Curb and Gutter = 514 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

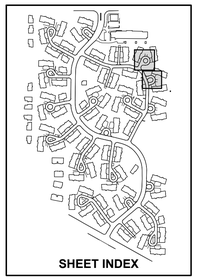
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



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PLUM TREE COURT & FERNDALE COURT

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM

WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C12.0 / C24

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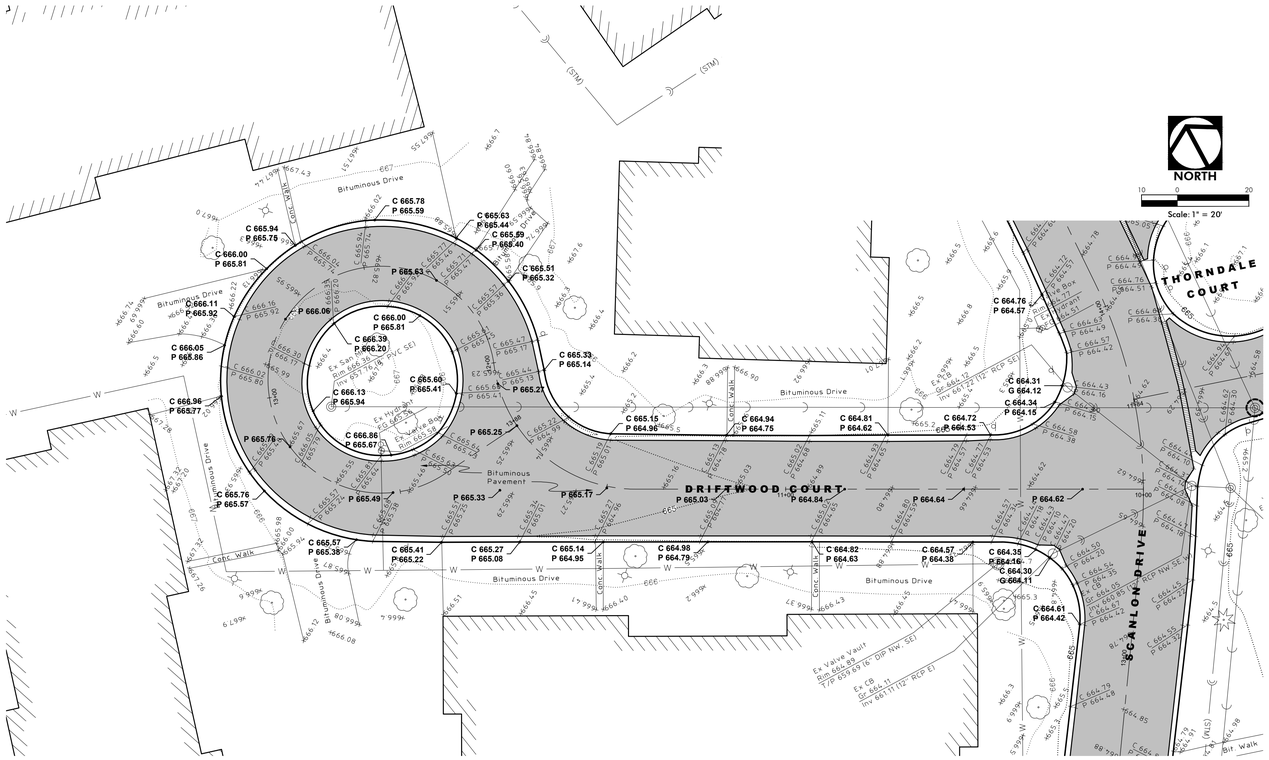
Plot Date: Mar 06, 2020 - 3:19pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Lexington Commons.dwg



QUANTITY ASSUMPTIONS (DRIFTWOOD COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 2 SY (Estimated quantity)
- Asphalt Driveway Aprons = 60 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (As Shown)
- M 3.12 Curb and Gutter = 715 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

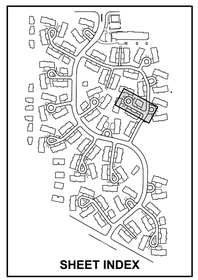
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

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DRIFTWOOD COURT

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C13.0 / C24

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Plot Date: Mar 06, 2020 - 3:19pm Plotted By: joshl
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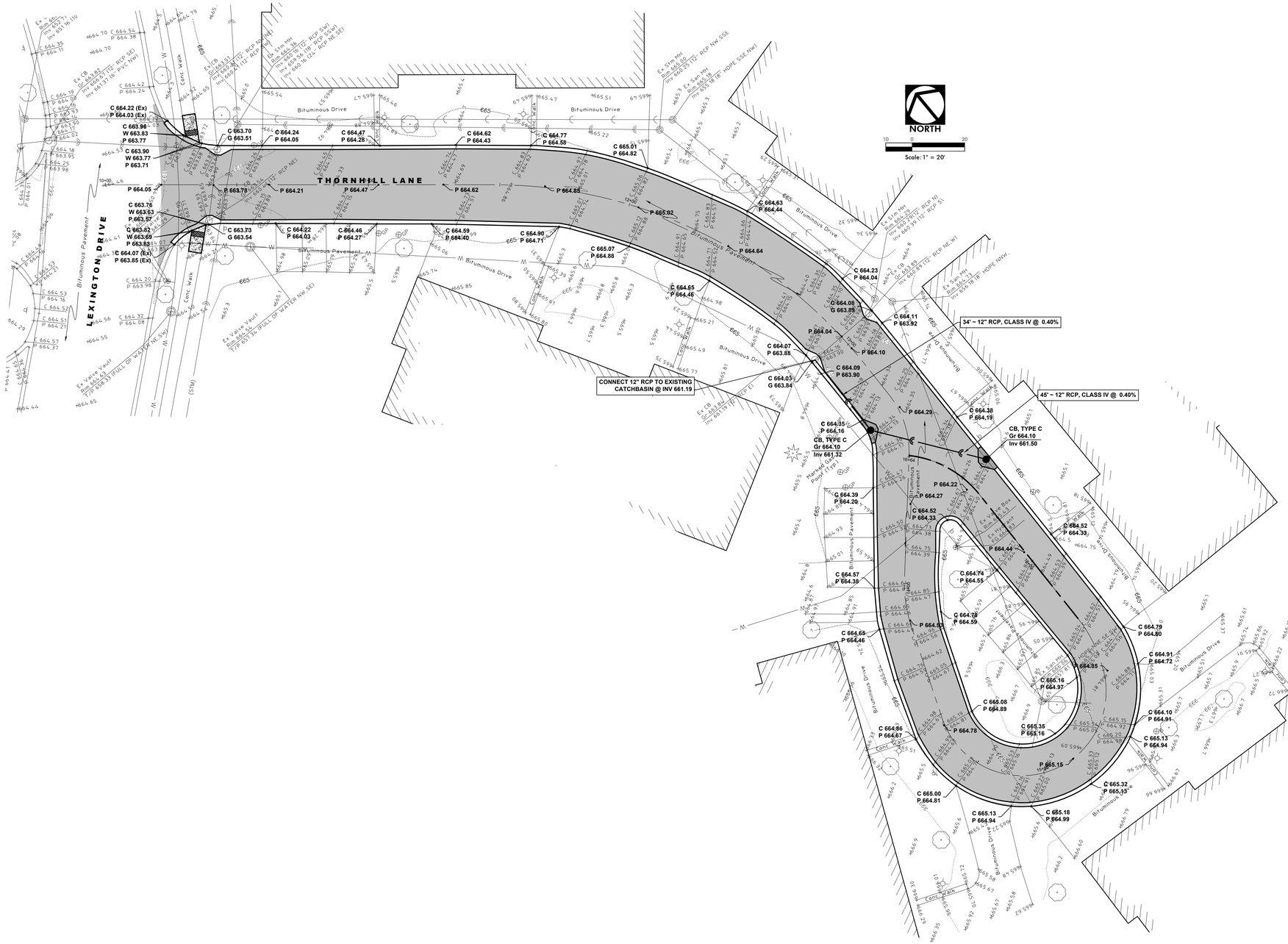


NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

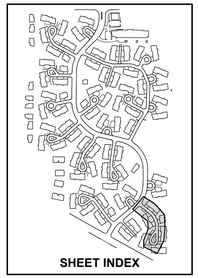
- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

QUANTITY ASSUMPTIONS (THORNHILL LANE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 3 SY (Estimated quantity)
- Asphalt Driveway Aprons = 99 SY (Estimated quantity)
- Concrete Sidewalks = 100 SF (As Shown)
- M 3.12 Curb and Gutter = 1260 LF (Assumed 100% Replacement)

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

No.	Revision	Date

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THORNHILL LANE

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C14.0 / C24

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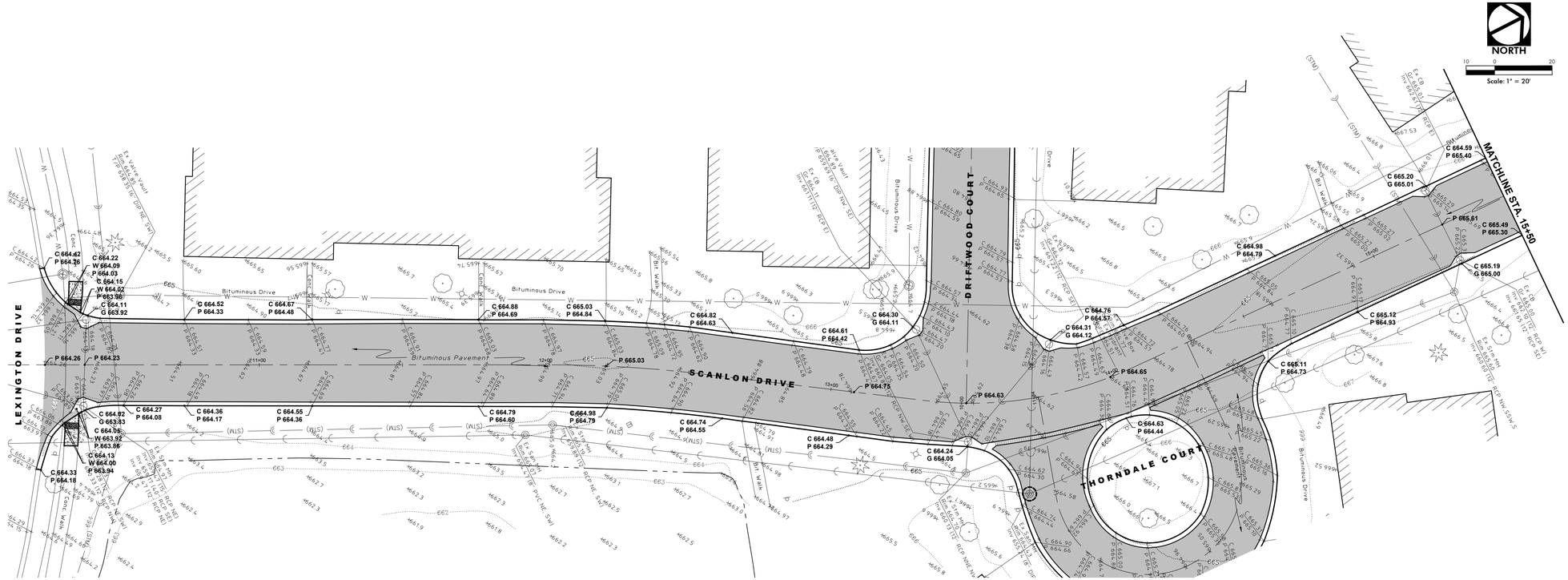


QUANTITY ASSUMPTIONS (SCANLON DRIVE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 5 SY (Estimated quantity)
- Asphalt Driveway Aprons = 96 SY (Estimated quantity)
- Concrete Sidewalks = 200 SF (As Shown)
- M 3.12 Curb and Gutter = 2356 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

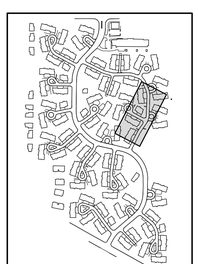
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



SHEET INDEX

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SCANLON DRIVE

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03-06-2020
Project No. 19-197
Sheet C15.0 / C24

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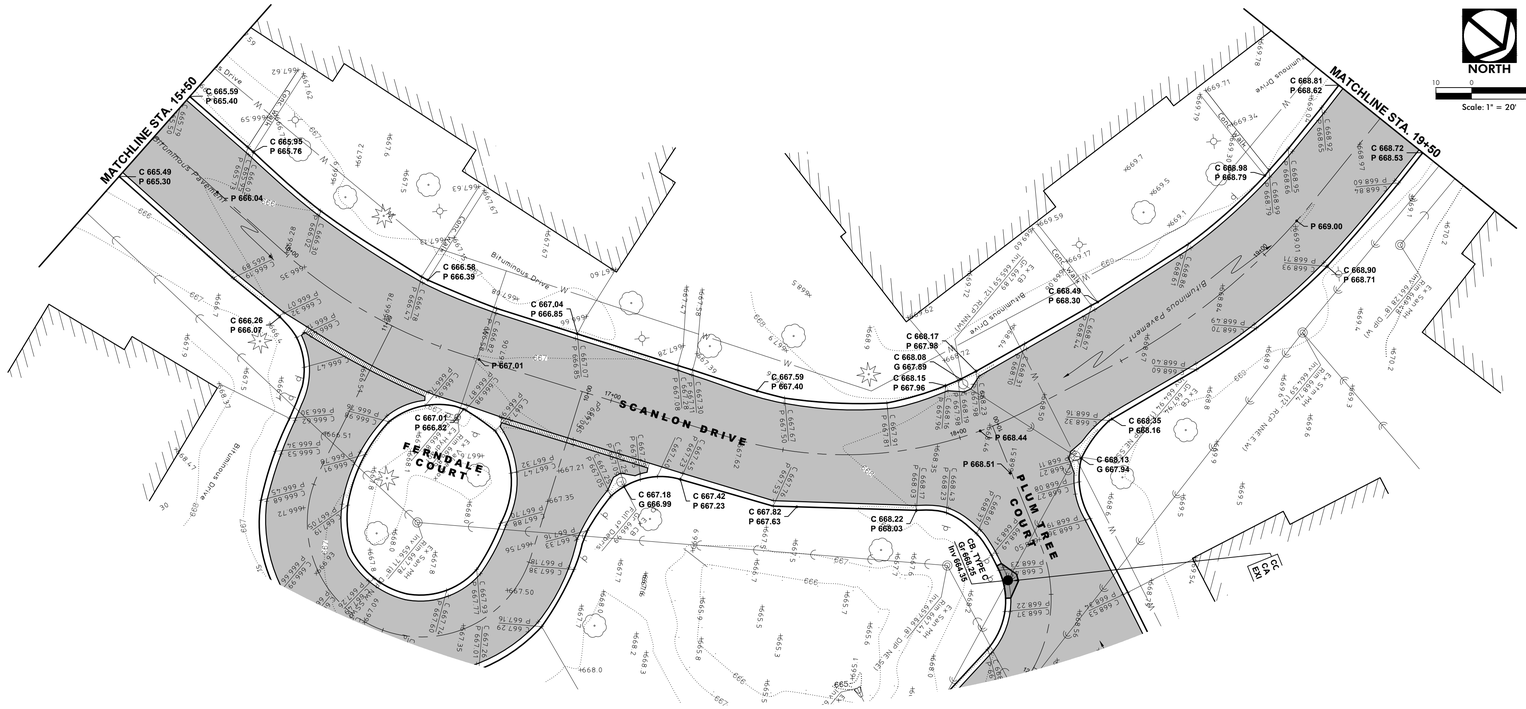


QUANTITY ASSUMPTIONS (SCANLON DRIVE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 5 SY (Estimated quantity)
- Asphalt Driveway Aprons = 96 SY (Estimated quantity)
- Concrete Sidewalks = 200 SF (As Shown)
- M 3.12 Curb and Gutter = 2356 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

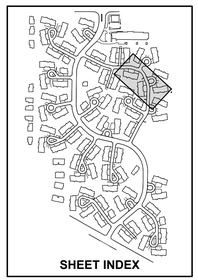
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



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SCANLON DRIVE

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
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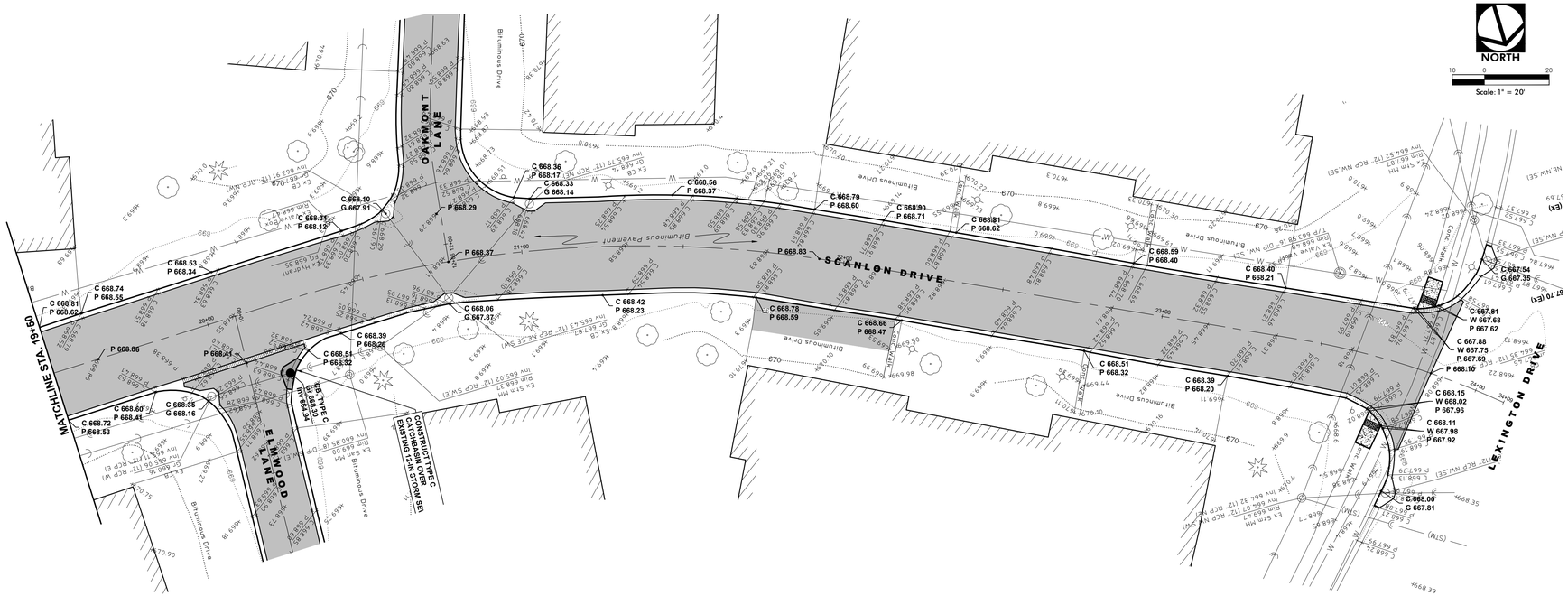


QUANTITY ASSUMPTIONS (SCANLON DRIVE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 5 SY (Estimated quantity)
- Asphalt Driveway Aprons = 96 SY (Estimated quantity)
- Concrete Sidewalks = 200 SF (As Shown)
- M 3.12 Curb and Gutter = 2356 LF (Assumed 100% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

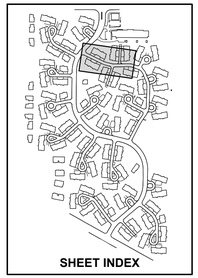
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



SHEET INDEX

No.	Revision	Date

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www.haegerengineering.com

SCANLON DRIVE

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C15.2 / C24

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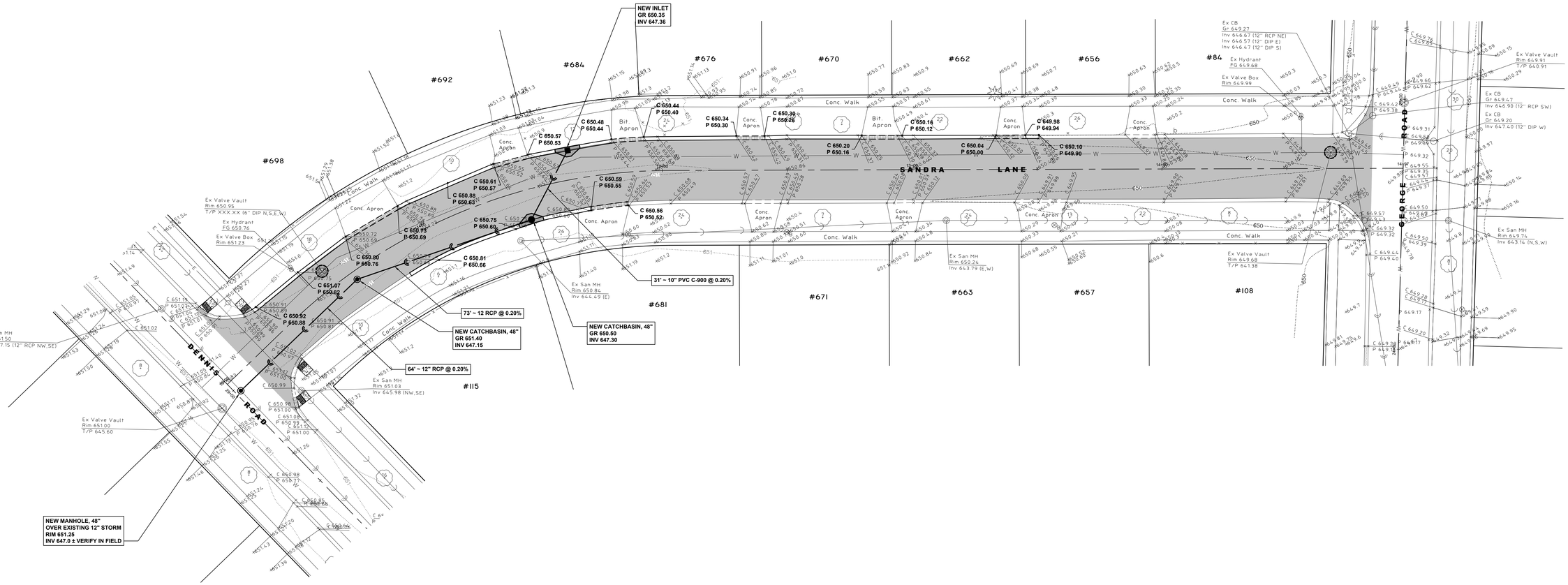
Plot Date: Mar 06, 2020 - 3:19pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Lexington Commons.dwg


NEW INLET
GR 650.35
INV 647.36
NEW CATCHBASIN, 48"
GR 650.50
INV 647.30
31' – 10" PVC C-900 @ 0.20%
73' – 12 RCP @ 0.20%
NEW CATCHBASIN, 48"
GR 651.40
INV 647.15
64' – 12" RCP @ 0.20%
NEW MANHOLE, 48"
OVER EXISTING 12" STORM
RIM 651.25
INV 647.0 ± VERIFY IN FIELD
SANDRA LANE
DENNIS ROAD
GEORGE ROAD
Conc. Walk
Conc. Apron
Bit. Apron
#692
#698
#684
#676
#670
#662
#656
#84
#681
#671
#663
#657
#108
#115
Ex Valve Vault
Rim 650.95
T/P XXX.XX (6" DIP N,S,E,W)
Ex Hydrant
FG 650.76
Ex Valve Box
Rim 651.23
Ex Stm MH
Rim 651.50
Inv 647.15 (12" RCP NW,SE)
Ex Valve Vault
Rim 645.60
T/P 645.60
Ex San MH
Rim 651.03
Inv 645.98 (NW,SE)
Ex San MH
Rim 650.84
Inv 644.49 (E)
Ex San MH
Rim 650.24
Inv 643.79 (E,W)
Ex CB
Gr 649.27
Inv 646.67 (12" RCP NE)
Inv 646.57 (12" DIP E)
Inv 646.47 (12" DIP S)
Ex Hydrant
FG 649.68
Ex Valve Box
Rim 649.99
Ex Valve Vault
Rim 649.91
T/P 649.91
Ex CB
Gr 649.47
Inv 646.90 (12" RCP SW)
Ex CB
Gr 649.20
Inv 647.40 (12" DIP W)
Ex San MH
Rim 649.74
Inv 643.14 (N,S,W)
Ex Valve Vault
Rim 649.68
T/P 647.38
C 650.48 P 650.44
C 650.44 P 650.40
C 650.34 P 650.30
C 650.30 P 650.26
C 650.20 P 650.16
C 650.16 P 650.12
C 650.04 P 650.00
C 649.98 P 649.94
C 650.10 P 649.90
C 650.57 P 650.53
C 650.59 P 650.55
C 650.61 P 650.57
C 650.88 P 650.63
C 650.56 P 650.52
C 650.75 P 650.69
C 650.75 P 650.60
C 650.80 P 650.76
C 650.81 P 650.66
C 651.07 P 650.82
C 650.92 P 650.88
C 650.91 P 650.87
C 650.99
C 650.98 P 651.00
C 651.08 P 650.99
C 651.12 P 651.00
C 650.98 P 650.77
C 650.85 P 650.63
C 650.76
C 650.99
C 651.02
C 651.14 P 651.10
C 650.91 P 650.87
C 650.90 P 650.86
C 650.92 P 650.88
C 650.91 P 650.87
C 649.76 P 649.72
C 649.94 P 649.90
C 649.92 P 649.88
C 649.93 P 649.89
C 649.90 P 649.86
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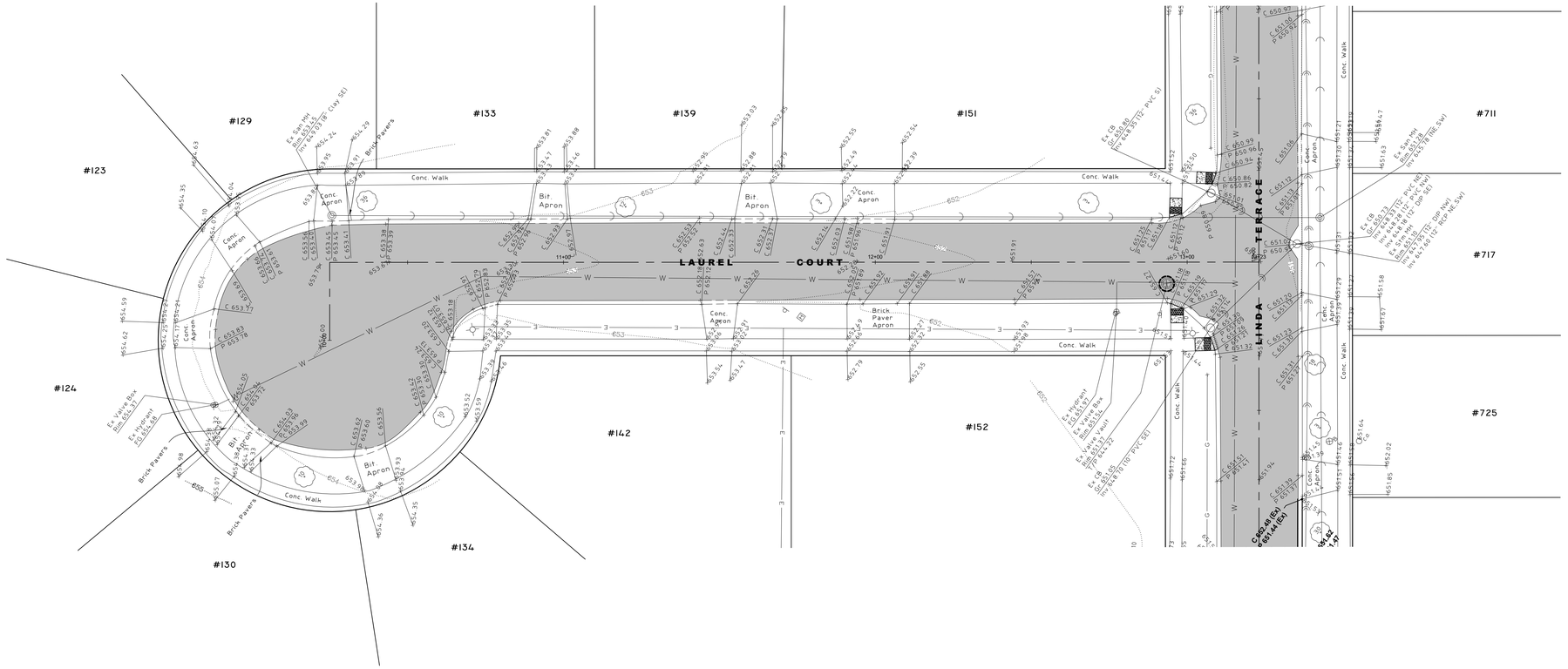


NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

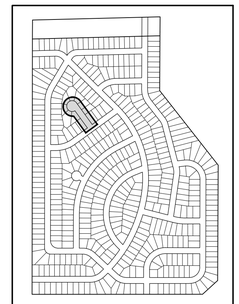
- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

QUANTITY ASSUMPTIONS (LAUREL COURT):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 12 SY (Estimated quantity)
- Asphalt Driveway Aprons = 11 SY (Estimated quantity)
- Concrete Sidewalks = 100 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 259 LF (Assumed 35% Replacement)

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

NORTH

10 0 20

Scale: 1" = 20'

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LAUREL COURT
STA. 10+00 TO STA. 13+23
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C17.0 / C24

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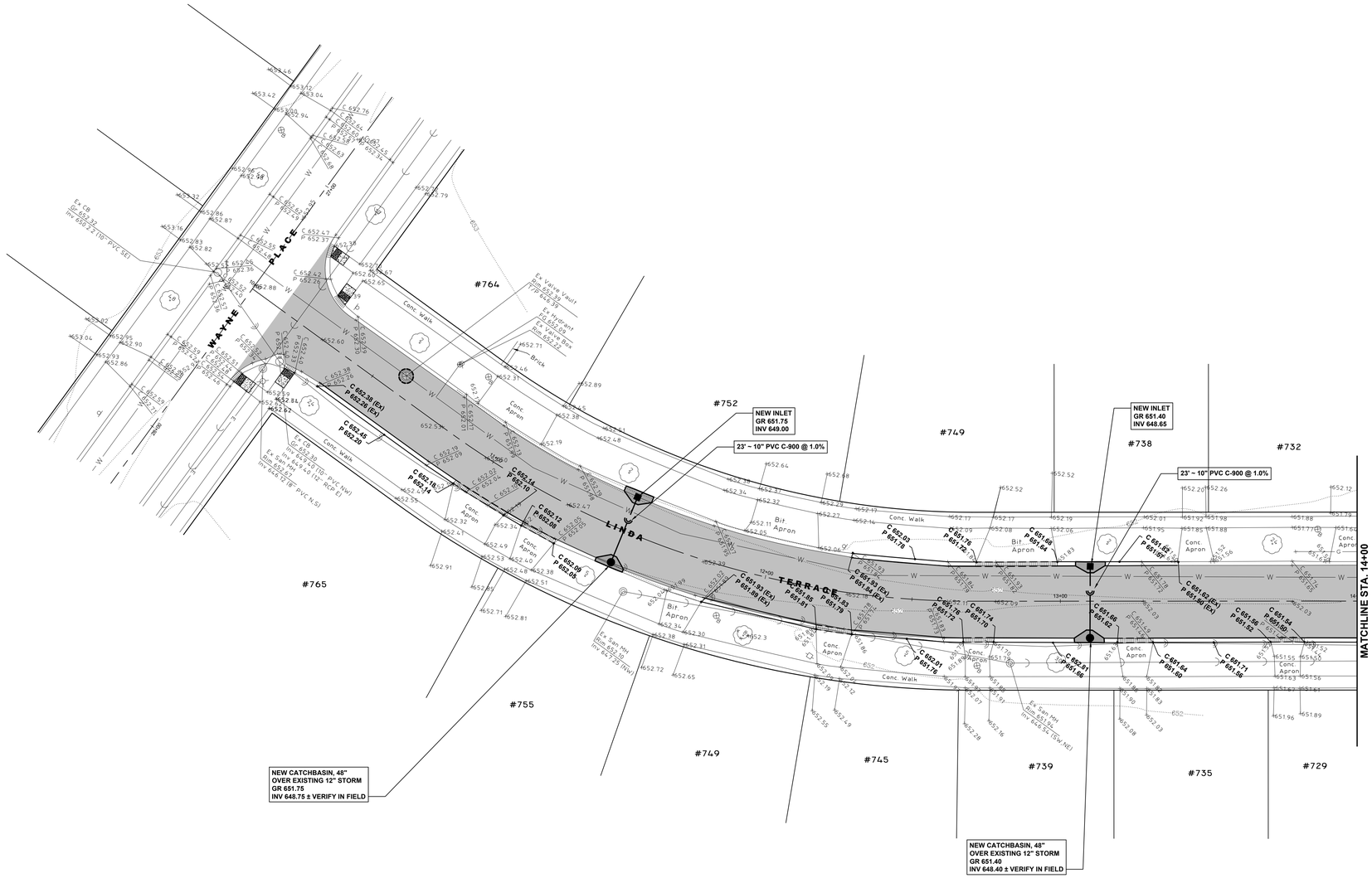
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Dunhurst Sub.dwg



NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
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- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

QUANTITY ASSUMPTIONS (LINDA TERRACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 46 SY (Estimated quantity)
- Asphalt Driveway Aprons = 23 SY (Estimated quantity)
- Concrete Sidewalks = 200 SF (As Shown)
- M 3.12 Curb and Gutter = 444 LF (Assumed 60% Replacement)

LEGEND

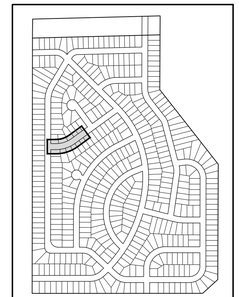
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



SHEET INDEX

NORTH
10 0 20
Scale: 1" = 20'

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www.haegerengineering.com

LINDA TERRACE
STA. 10+00 TO STA. 14+00
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C18.0 / C24

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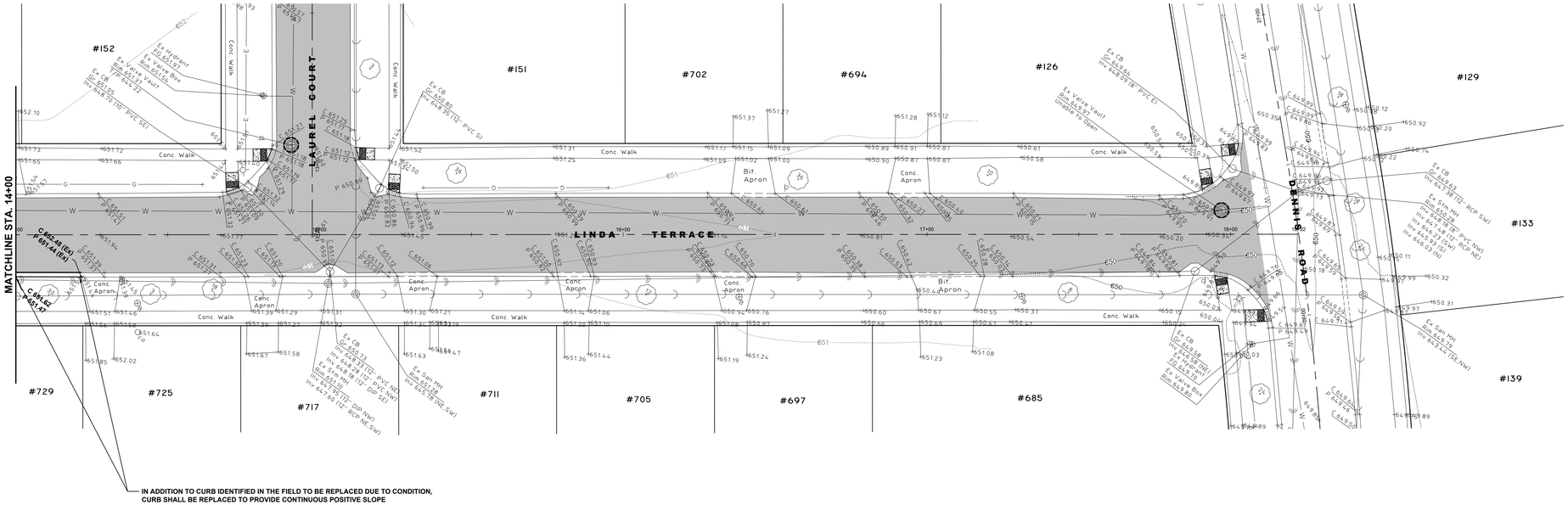
Plot Date: Mar 06, 2020 - 2:41pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Dunhurst Sub.dwg



NORTH

10 0 20

Scale: 1" = 20'

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Illinois Professional Design Firm License No.: 184.005152
www.haegerengineering.com

LINDA TERRACE
STA. 14+00 TO STA. 18+22
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

QUANTITY ASSUMPTIONS (LINDA TERRACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 46 SY (Estimated quantity)
- Asphalt Driveway Aprons = 23 SY (Estimated quantity)
- Concrete Sidewalks = 200 SF (As Shown)
- M 3.12 Curb and Gutter = 444 LF (Assumed 60% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
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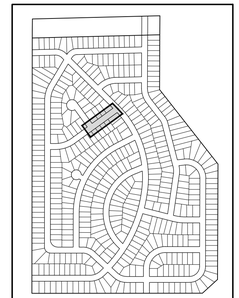

SHEET INDEX

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C18.1 / C24

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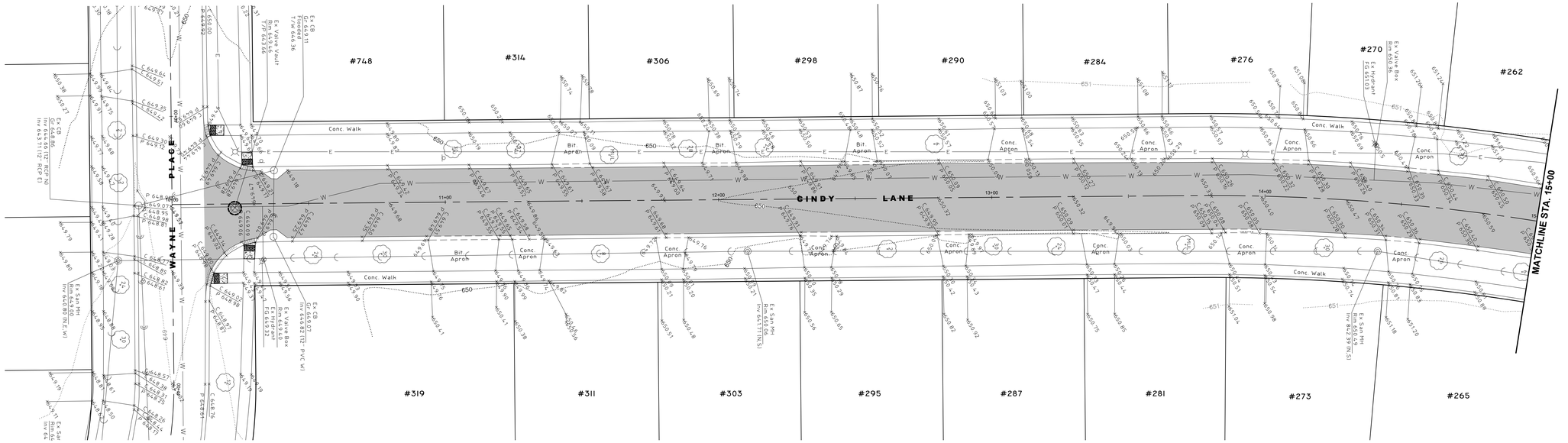

QUANTITY ASSUMPTIONS (CINDY LANE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 108 SY (Estimated quantity)
- Asphalt Driveway Aprons = 32 SY (Estimated quantity)
- Concrete Sidewalks = 275 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 1077 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
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LEGEND

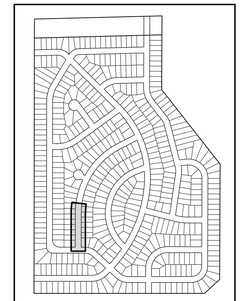
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



SHEET INDEX

NORTH

Scale: 1" = 20'

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www.haegerengineering.com

CINDY LANE
STA. 10+00 TO STA. 15+00
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
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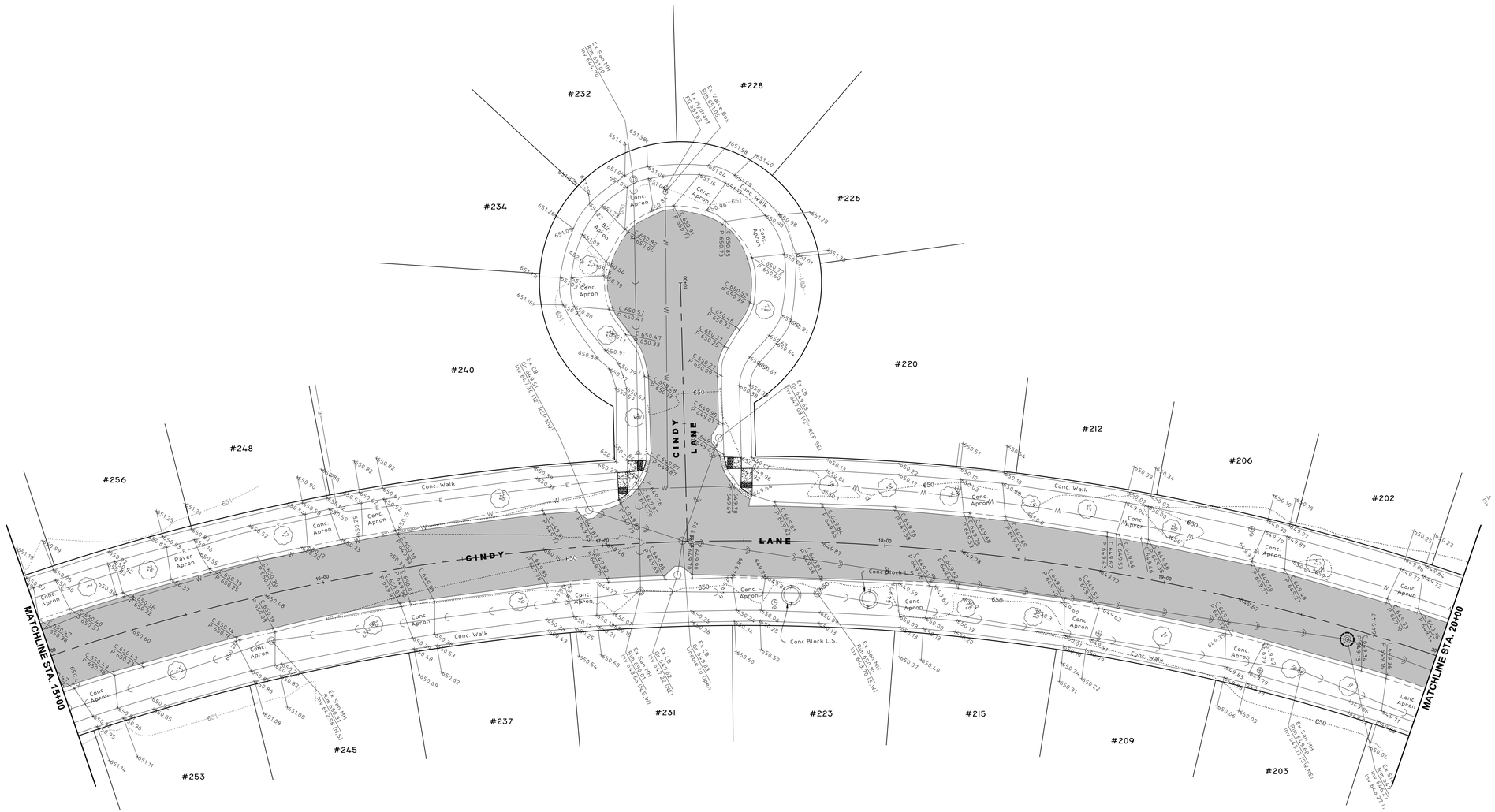

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- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
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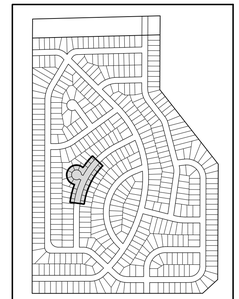

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CINDY LANE
STA. 15+00 TO STA. 20+00
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WHEELING, ILLINOIS

Project Manager:	M L A
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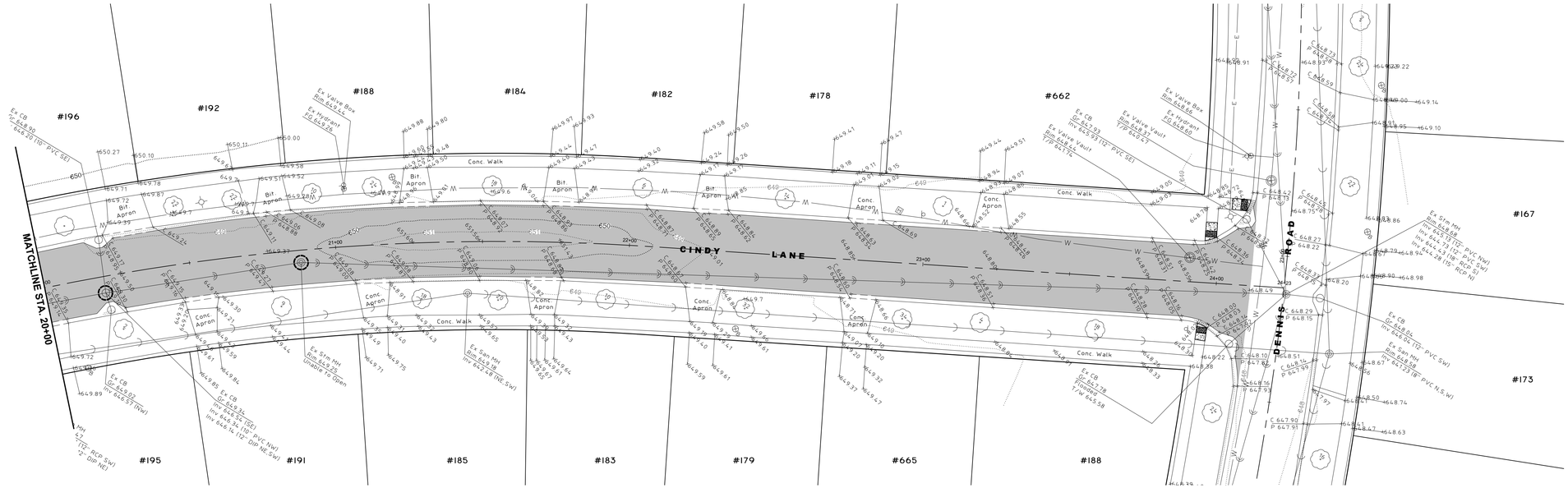

NORTH

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Scale: 1" = 20'

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www.haegerengineering.com

CINDY LANE
STA. 15+00 TO STA. 24+23
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

QUANTITY ASSUMPTIONS (CINDY LANE):

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- Concrete Driveway Aprons = 108 SY (Estimated quantity)
- Asphalt Driveway Aprons = 32 SY (Estimated quantity)
- Concrete Sidewalks = 275 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 1077 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

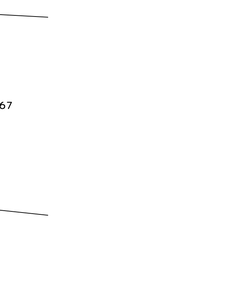
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C19.2 / C24

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Plot Date: Mar 06, 2020 - 2:42pm Plotted By: josh-l
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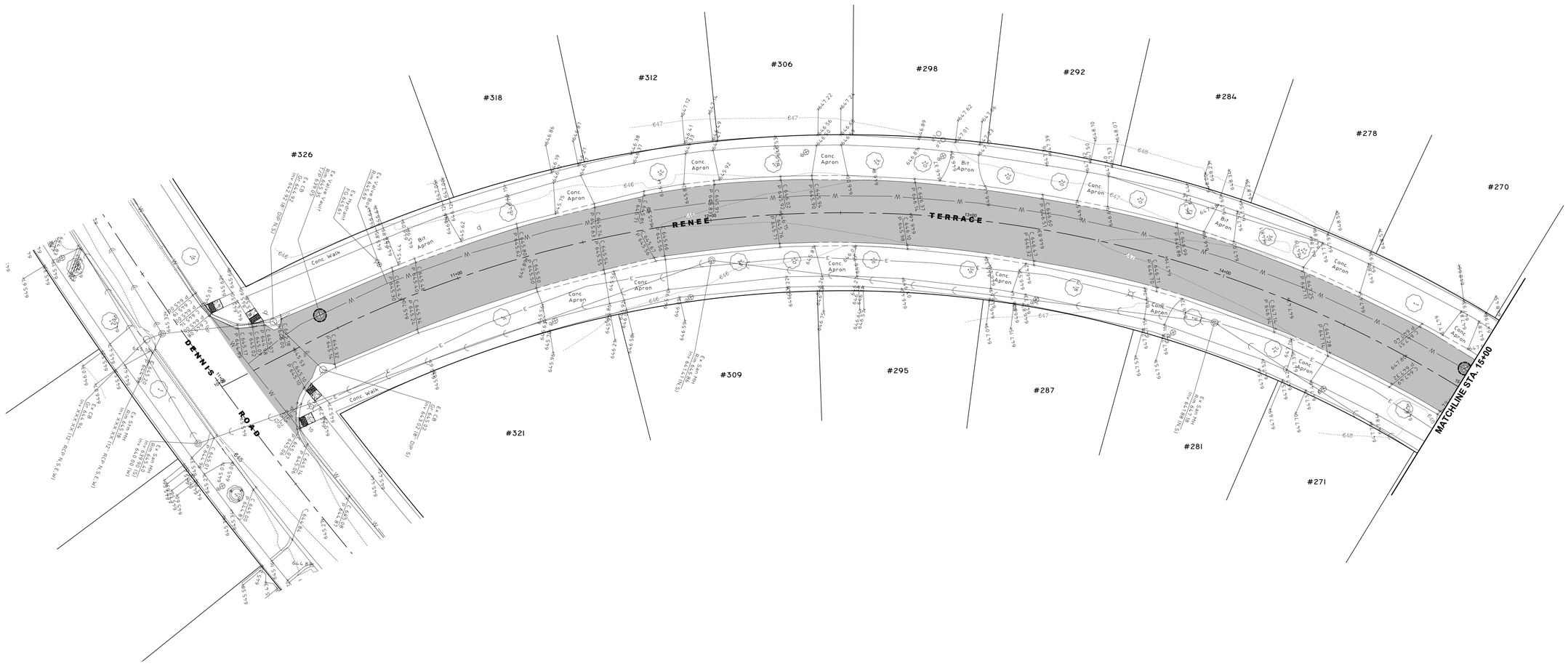

NORTH

10 0 20

Scale: 1" = 20'

No.	Revision	Date

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www.haegerengineering.com

RENEE TERRACE
STA. 10+00 TO STA. 15+00
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

QUANTITY ASSUMPTIONS (RENEE TERRACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 85 SY (Estimated quantity)
- Asphalt Driveway Aprons = 26 SY (Estimated quantity)
- Concrete Sidewalks = 175 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 748 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

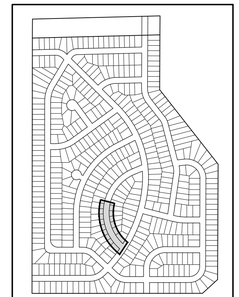
BITUMINOUS PAVEMENT - RESURFACE
- 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50

CONCRETE SIDEWALK - REMOVE & REPLACE
- New Detectable Warning Surfaces at all Crossing Locations
- Refer to IDOT Standard Detail 424001

MODIFIED CURB DRAINAGE STRUCTURE
- Frame and Grate to be Replaced and Adjusted as Necessary

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- Adjust Frame and Grate/Lid to Finished Grade Elevation

CURB AND GUTTER REPLACEMENT



SHEET INDEX

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C20.0 / C24

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Plot Date: Mar 06, 2020 - 2:42pm Plotted By: josh-l
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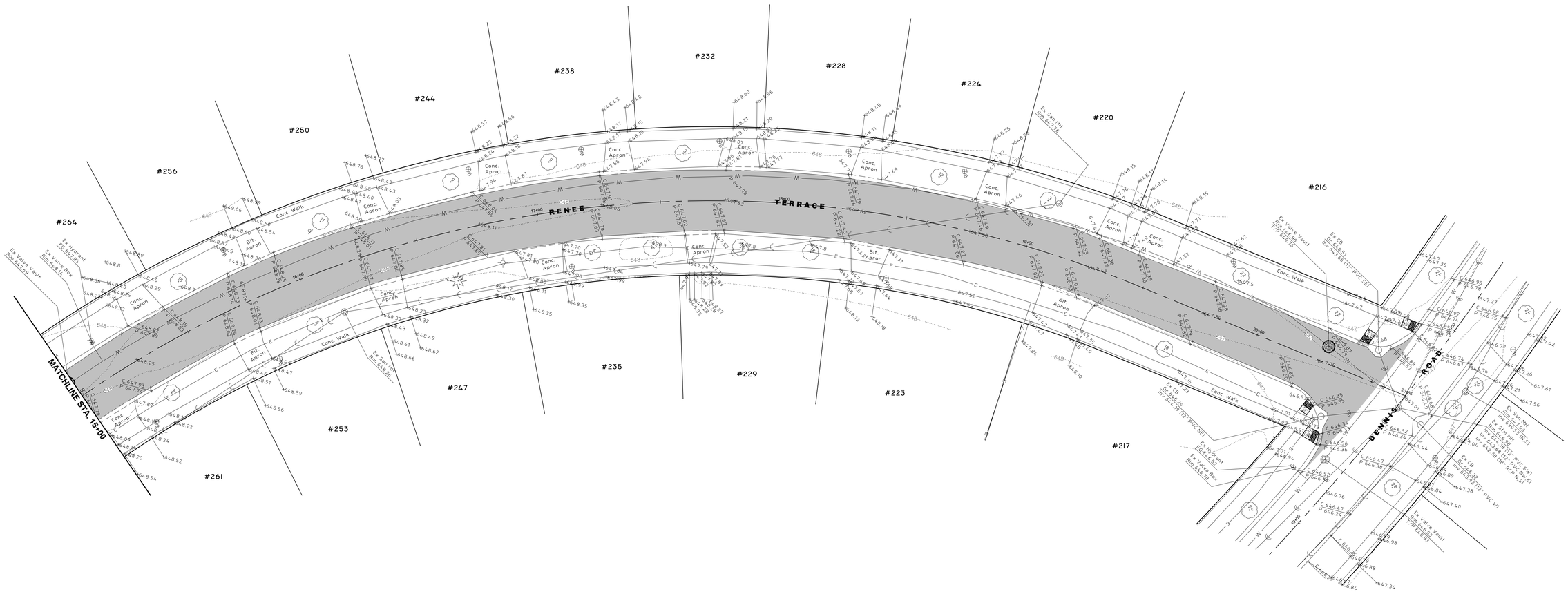


QUANTITY ASSUMPTIONS (RENEE TERRACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 85 SY (Estimated quantity)
- Asphalt Driveway Aprons = 26 SY (Estimated quantity)
- Concrete Sidewalks = 175 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 748 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

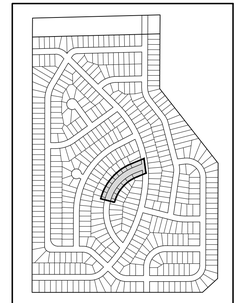
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

NORTH

10 0 20

Scale: 1" = 20'

No.	Revision	Date

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Illinois Professional Design Firm License No.: 184-003152
www.haegerengineering.com

RENEE TERRACE
STA. 15+00 TO STA. 20+65
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C20.1 / C24

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Plot Date: Mar 06, 2020 - 2:42pm Plotted By: pah-l
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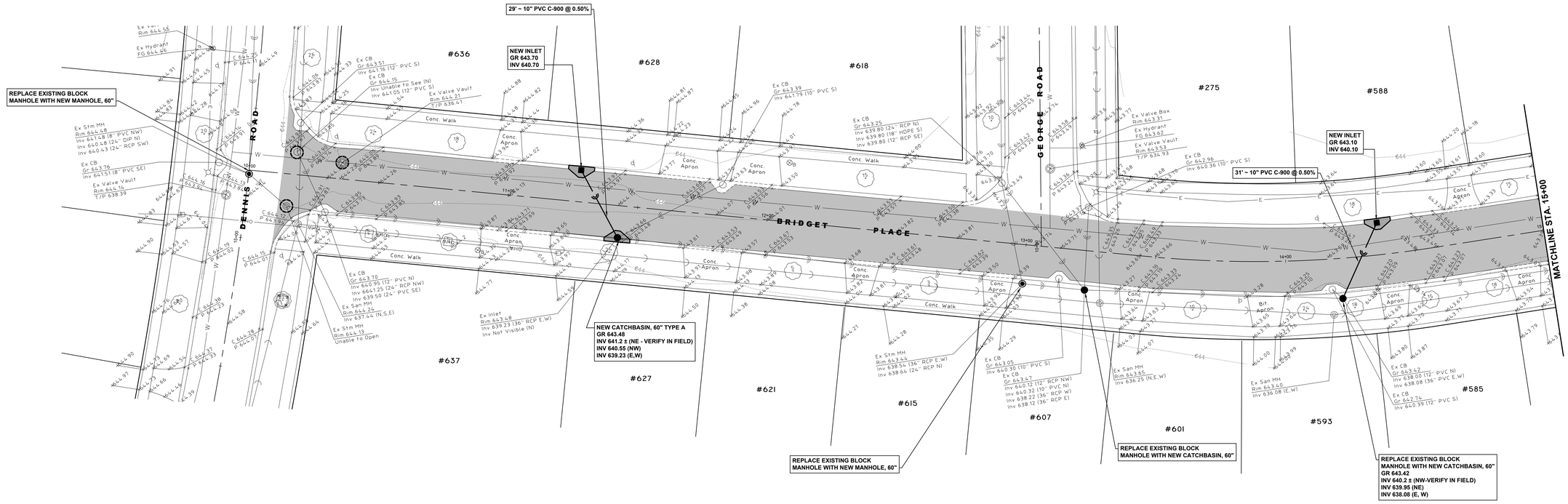


QUANTITY ASSUMPTIONS (BRIDGET PLACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 44 SY (Estimated quantity)
- Asphalt Driveway Aprons = 3 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 423 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

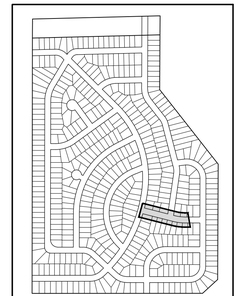
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

NORTH

10 0 20

Scale: 1" = 20'

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BRIDGET PLACE
STA. 10+00 TO STA. 15+00
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C21.0 / C24

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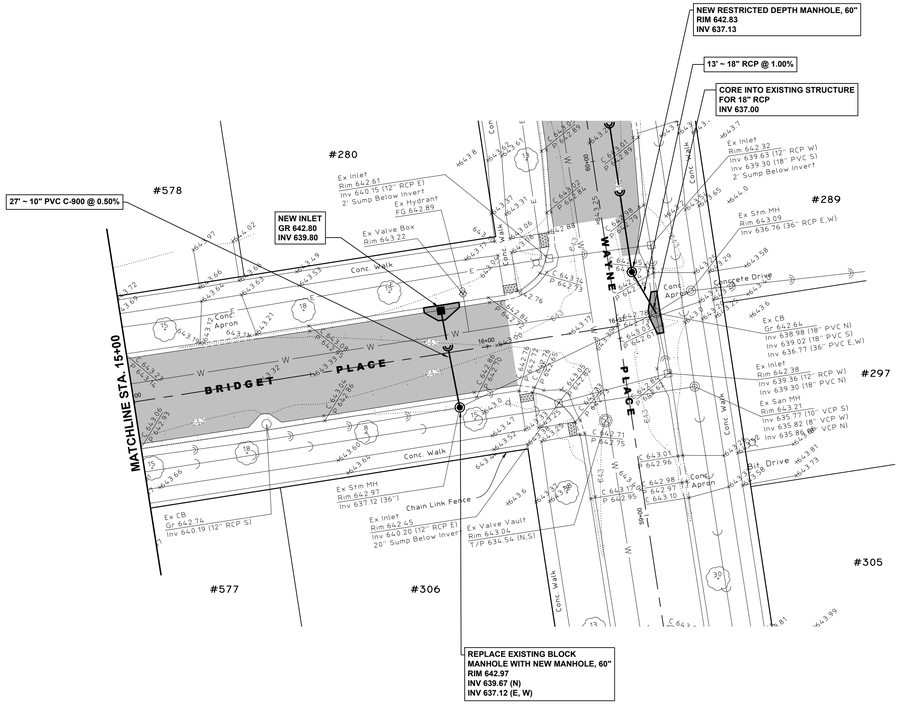
Plot Date: Mar 06, 2020 - 2:42pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Dunhurst Sub.dwg



QUANTITY ASSUMPTIONS (BRIDGET PLACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 44 SY (Estimated quantity)
- Asphalt Driveway Aprons = 3 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 423 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

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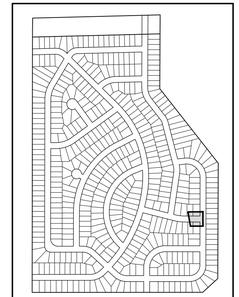
- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

NORTH

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Scale: 1" = 20'

No.	Revision	Date

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BRIDGET PLACE
STA. 15+00 TO STA. 16+37

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C21.1 / C24

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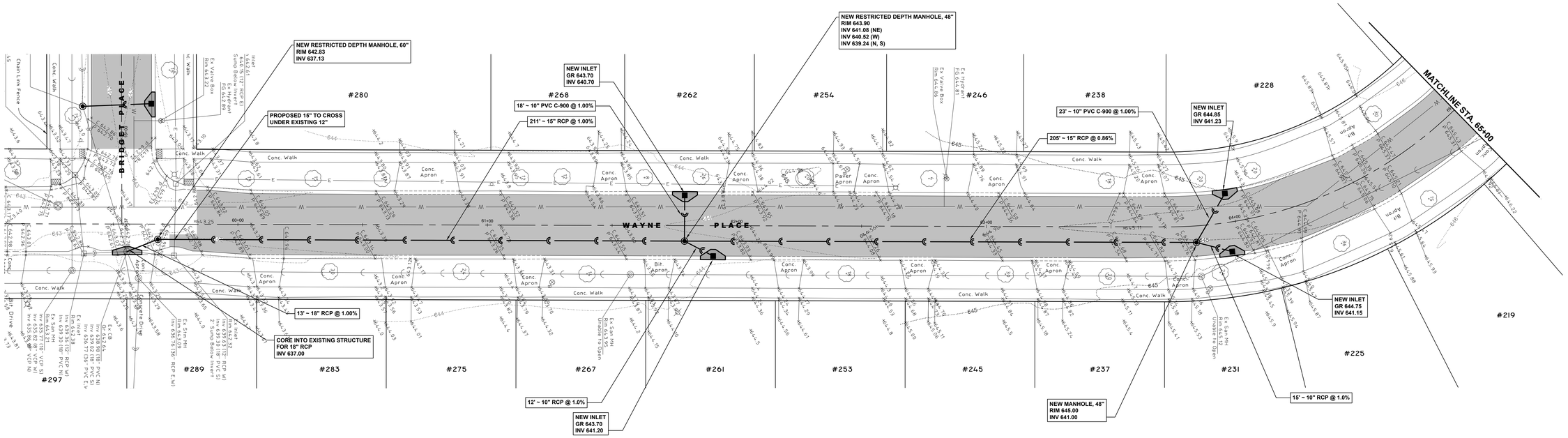
Plot Date: Mar 06, 2020 - 2:43pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Dunhurst Sub.dwg



NORTH

10 0 20

Scale: 1" = 20'

No.	Revision	Date

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WAYNE PLACE
STA. 59+84 TO STA. 65+00
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C22.0 / C24

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QUANTITY ASSUMPTIONS (WAYNE PLACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 61 SY (Estimated quantity)
- Asphalt Driveway Aprons = 15 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 530 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
- Any bituminous aprons to be removed shall be saw-cut 3' behind the back-of-curb and replaced per Village Standards.
- Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 3' behind the back-of-curb

STRIPING REPLACEMENT:

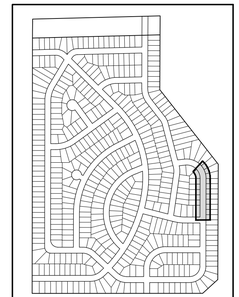
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to the properties.

LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
- **DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED**
  - Adjust Frame and Grate/Lid to Finished Grade Elevation
- **CURB AND GUTTER REPLACEMENT**



SHEET INDEX

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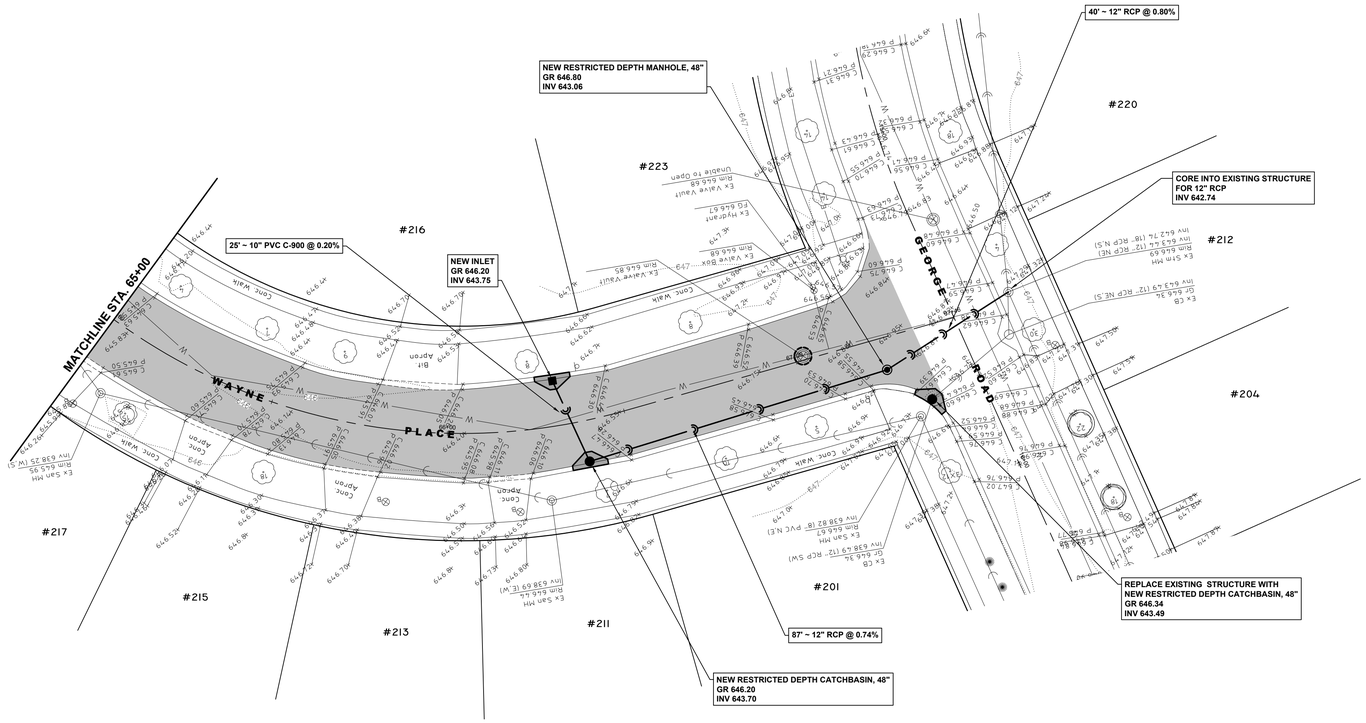

QUANTITY ASSUMPTIONS (WAYNE PLACE):

- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.
- The following quantities have been assumed based on the preliminary field inspections. The final quantities will differ, and the contractor shall be paid per the actual quantities that are removed/replaced.
- Concrete Driveway Aprons = 61 SY (Estimated quantity)
- Asphalt Driveway Aprons = 15 SY (Estimated quantity)
- Concrete Sidewalks = 0 SF (Estimated quantity)
- M 3.12 Curb and Gutter = 530 LF (Assumed 35% Replacement)

NOTES:

DRIVEWAY APRON REPLACEMENT:

- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
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STRIPING REPLACEMENT:

- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.

DRIVEWAY CLOSINGS:

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LEGEND

- **BITUMINOUS PAVEMENT - RESURFACE**
  - 2" Hot Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- **CONCRETE SIDEWALK - REMOVE & REPLACE**
  - New Detectable Warning Surfaces at all Crossing Locations
  - Refer to IDOT Standard Detail 424001
- **MODIFIED CURB DRAINAGE STRUCTURE**
  - Frame and Grate to be Replaced and Adjusted as Necessary
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  - Adjust Frame and Grate/Lid to Finished Grade Elevation
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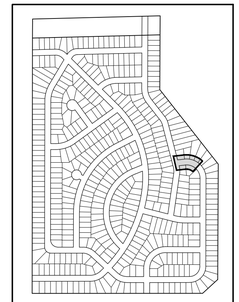

SHEET INDEX

NORTH

10 0 20

Scale: 1" = 20'

No.	Revision	Date

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www.haegerengineering.com

WAYNE PLACE
STA. 10+00 TO STA. 67+46
VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C22.1 / C24

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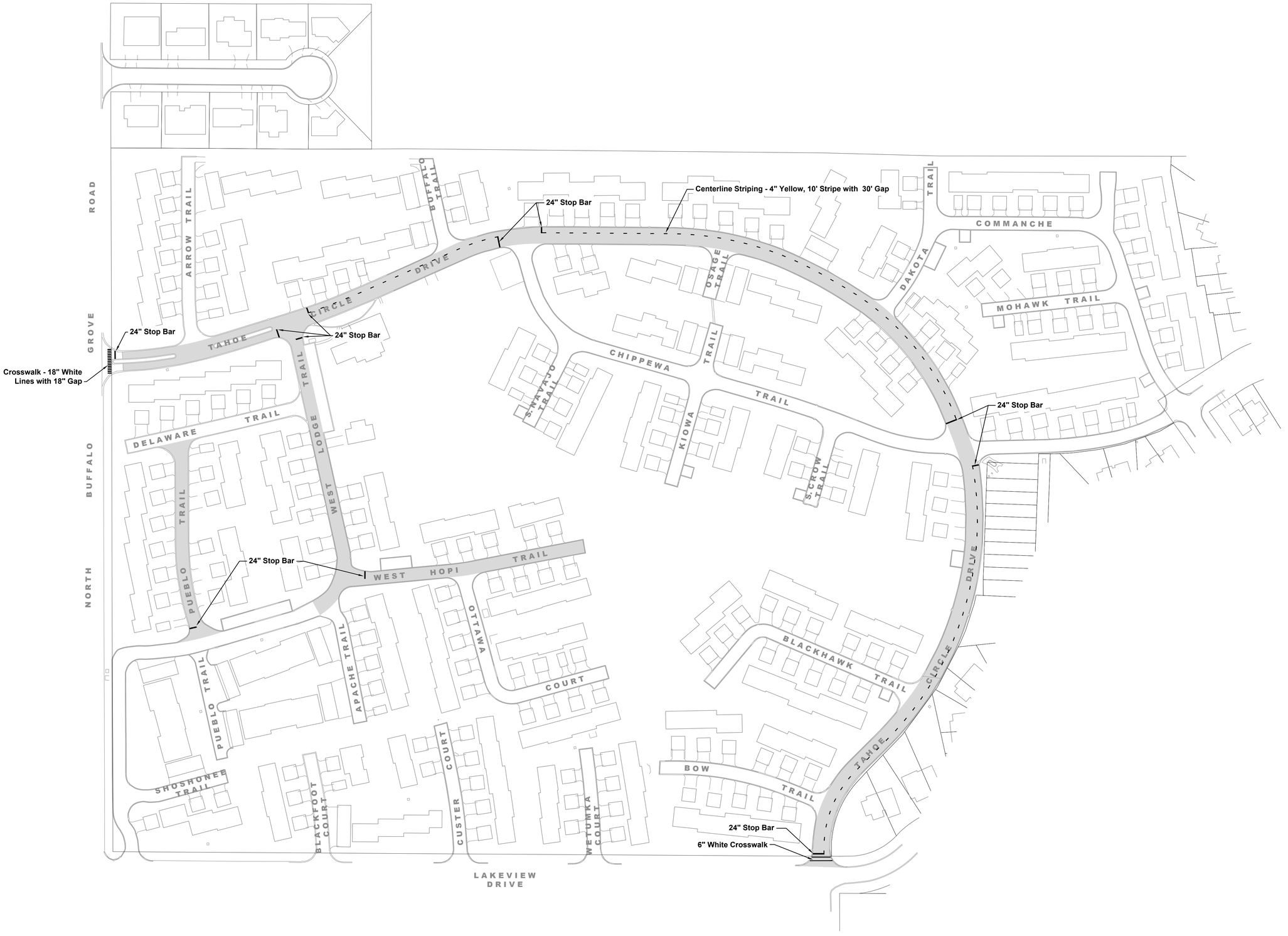
Plot Date: Mar 06, 2020 - 2:43pm Plotted By: pah-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Dunhurst Sub.dwg



NORTH

40 0 80

Scale: 1" = 80'

No.	Revision	Date

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PAVEMENT MARKING PLAN
TAHOE VILLAGE

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C23.0 / C24

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Plot Date: Mar 06, 2020 - 3:32pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Pavement Marking.dwg

NOTE: NO PAVEMENT MARKING WITHIN THIS PROJECT AREA



NORTH

40 0 80

Scale: 1" = 80'

No.	Date	Revision

HAEGER ENGINEERING
consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No.: 184.003152
www.haegerengineering.com

PAVEMENT MARKING PLAN
LEXINGTON COMMONS

VILLAGE OF WHEELING 2020
STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C23.1 / C24

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Plot Date: Mar 06, 2020 - 3:37pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Pavement Marking.dwg

WAYNE PLACE

CINDY LANE

RENEE TERRACE

LAUREL COURT

LINDA TERRACE

SANDRA LANE

WAYNE PLACE

DENNIS ROAD

24" Stop Bar

BRIDGET PLACE

GEORGE ROAD

24" Stop Bar

WAYNE PLACE

MERLE LANE

WAYNE PLACE

NORTH

40 0 80

Scale: 1" = 80'

No.	Date	Revision

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Illinois Professional Design Firm License No.: 184-003152
www.haegerengineering.com

PAVEMENT MARKING PLAN
DUNHURST

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM
WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03-06-2020
Project No.	19-197
Sheet	C23.2 / C24

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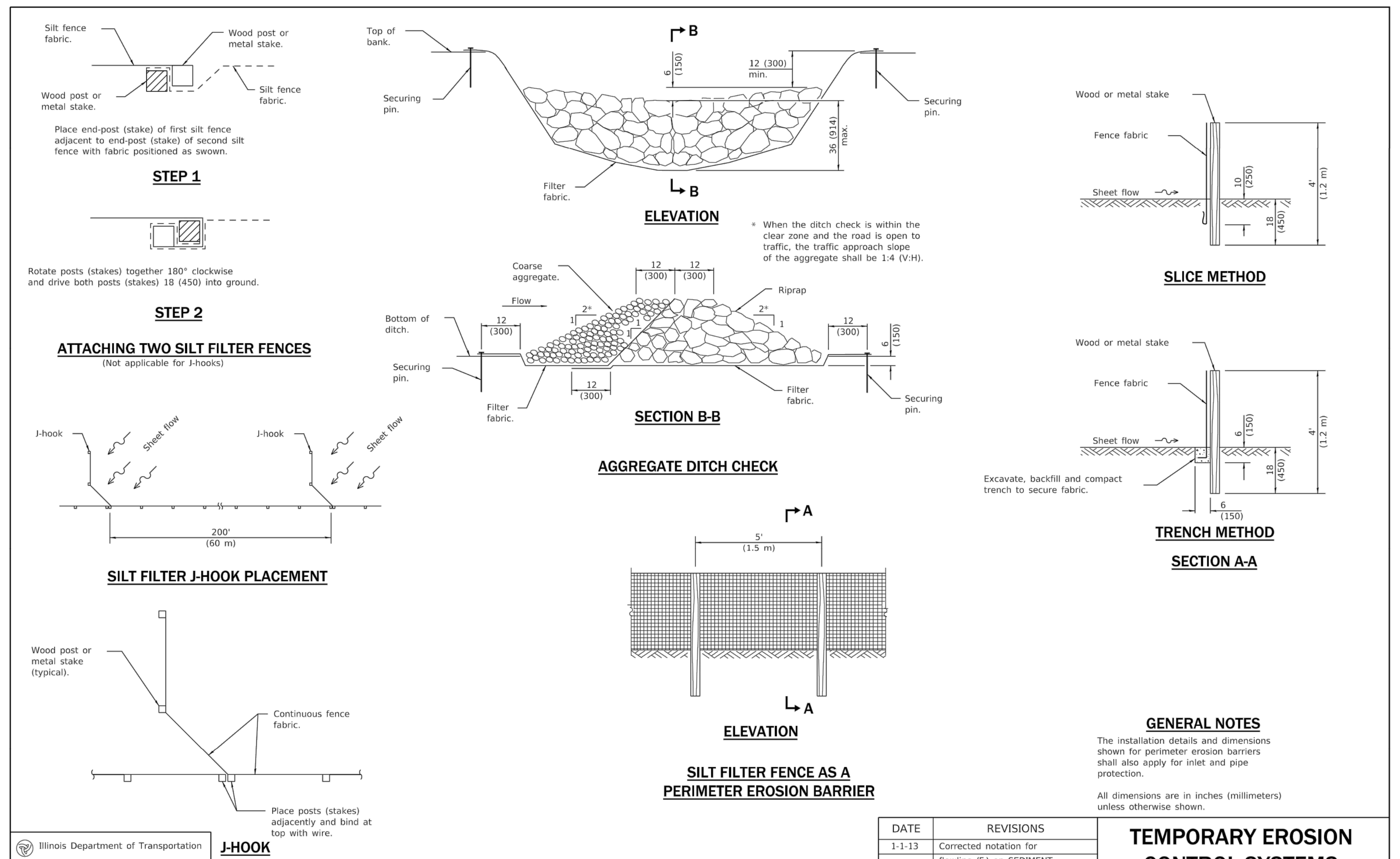
Plot Date: Mar 06, 2020 - 3:33pm Plotted By: josh-l
File Name: P:\2019\19197\Drawings\Final Engineering\19197-Pavement Marking.dwg



GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

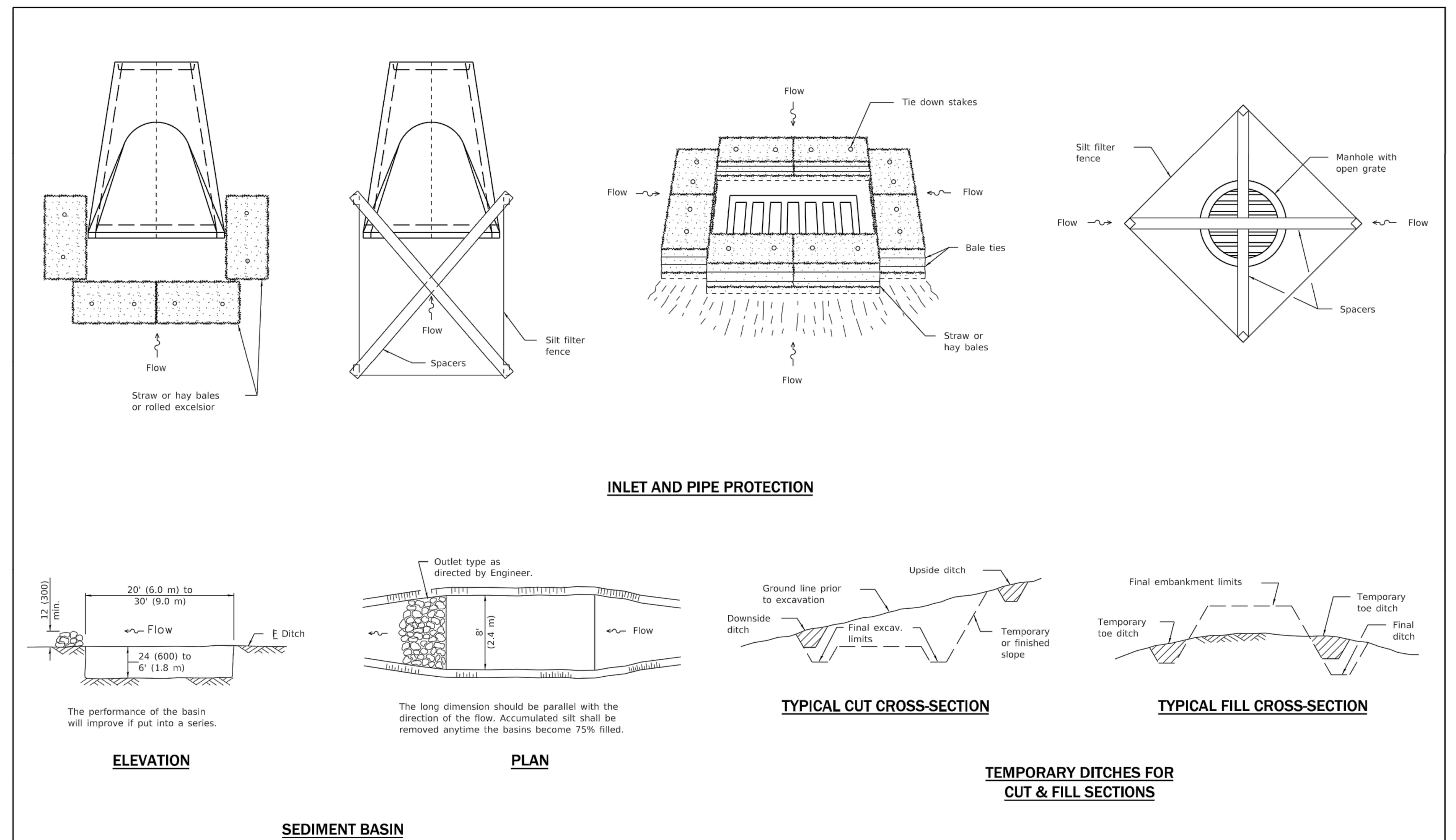
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation — PASSED January 1, 2013, ENGINEER OF POLICY AND PROCEDURES; APPROVED January 1, 2013, ENGINEER OF DESIGN AND ENVIRONMENT; ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Corrected notation for flowline (℄) on SEDIMENT BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

TEMPORARY EROSION CONTROL SYSTEMS (Sheet 1 of 2)

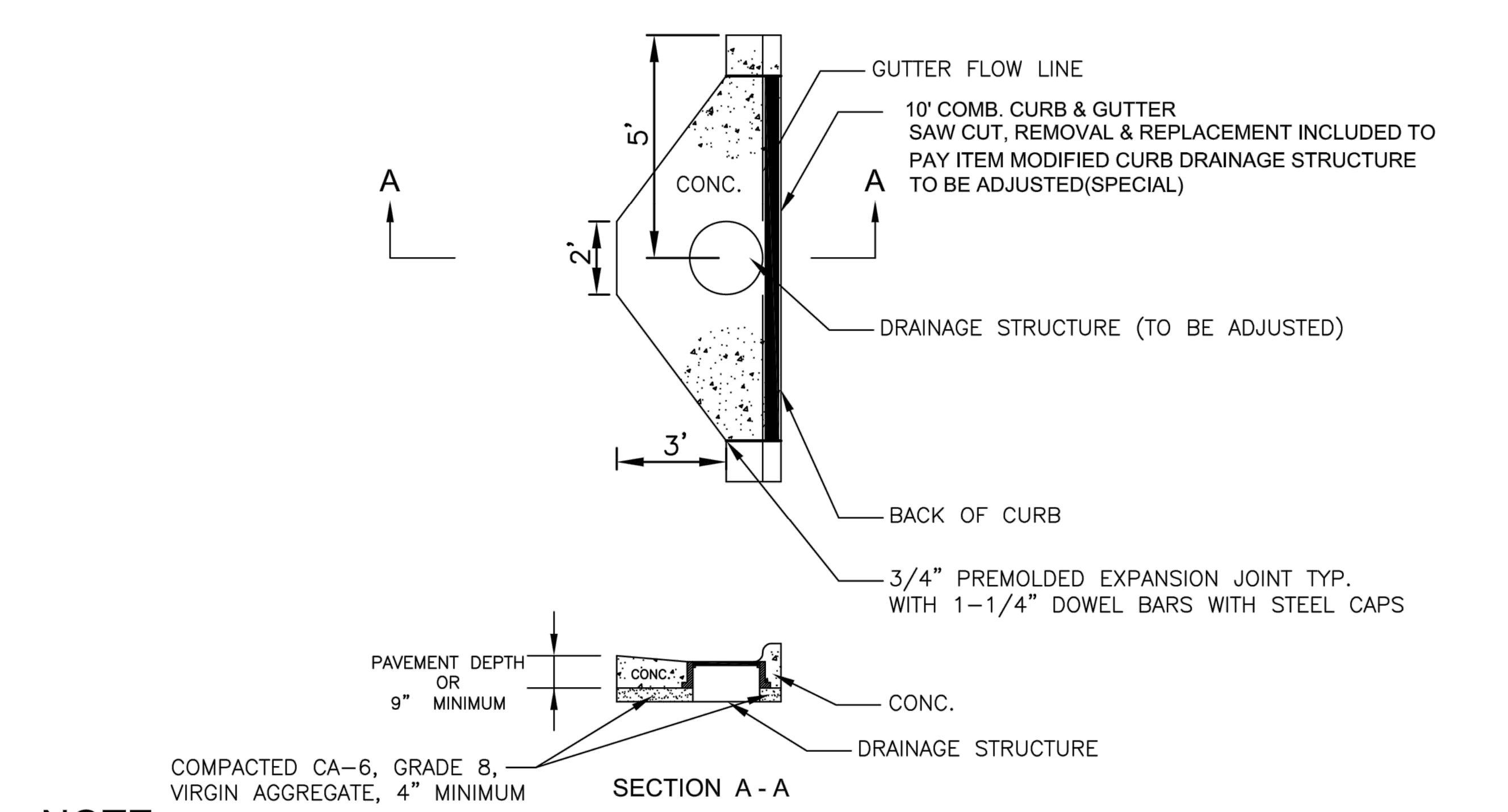
STANDARD 280001-07



Illinois Department of Transportation — PASSED January 1, 2013; APPROVED January 1, 2013; ISSUED 1-1-97

TEMPORARY EROSION CONTROL SYSTEMS (Sheet 2 of 2)

STANDARD 280001-07



NOTE:

CONCRETE REPLACEMENT WILL BE MONOLITHIC POUR WITH EXPANSON MATERIAL AT CONSTRUCTION JOINT.
BACK FILL WEDGE AREA WITH CA-6 (GRADE 8), CRUSHED LIMESTONE OR AS DIRECTED BY ENGINEER.

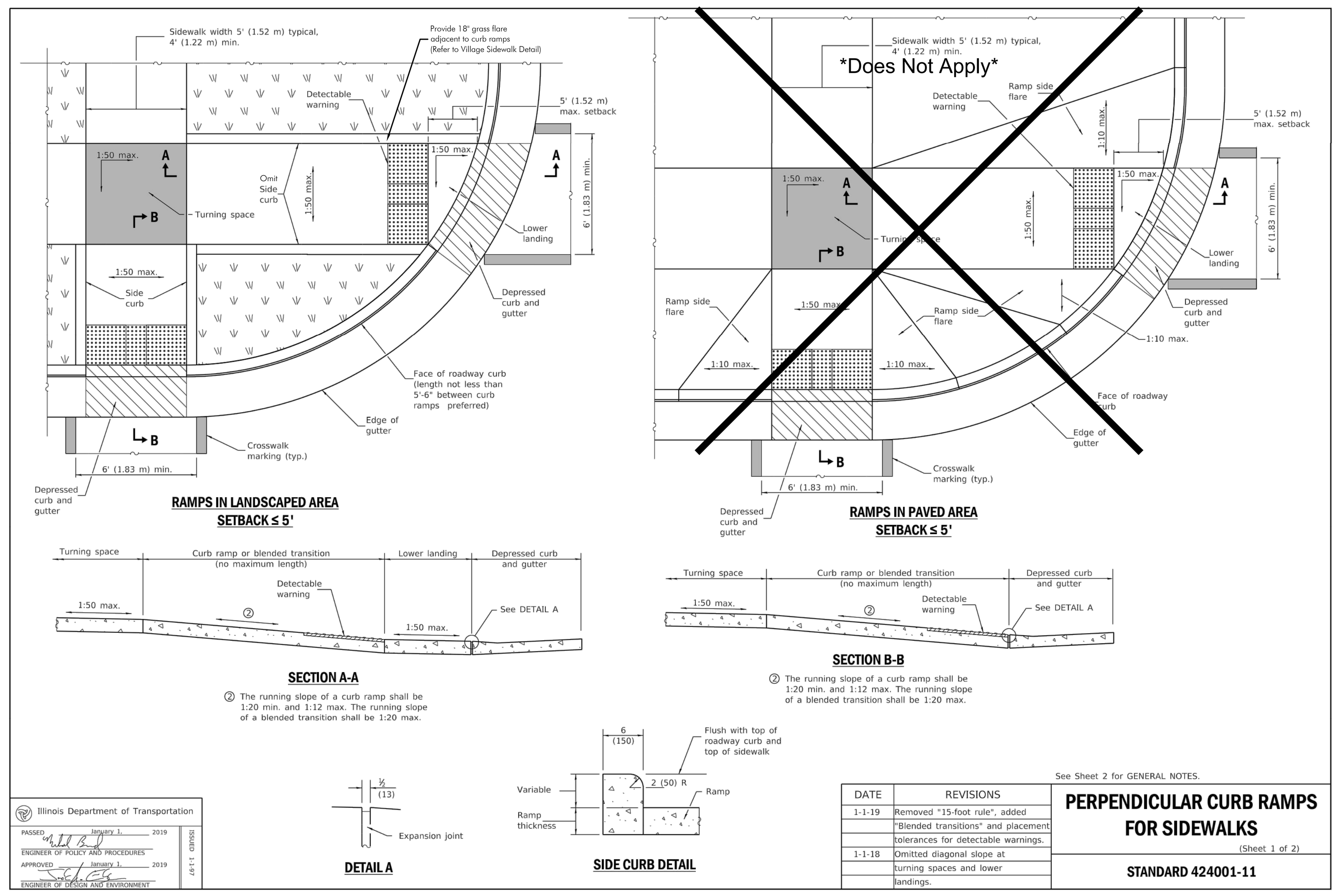
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

MODIFIED CURB DRAINAGE STRUCTURE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS — FILE LOCATION T:\ENGINEERING\STANDARDS

REVISIONS	
S.W.	4-18-00 AUTO CAD FILE
S.W.	9-18-01 PER COMMENTS
J.S.	01-10-05 AS PER IDOT
K.R.G.	02-19-08 AGG. BASE
M.T.P.	12-16-08 PER COMMENTS

DETAIL NO. R-15



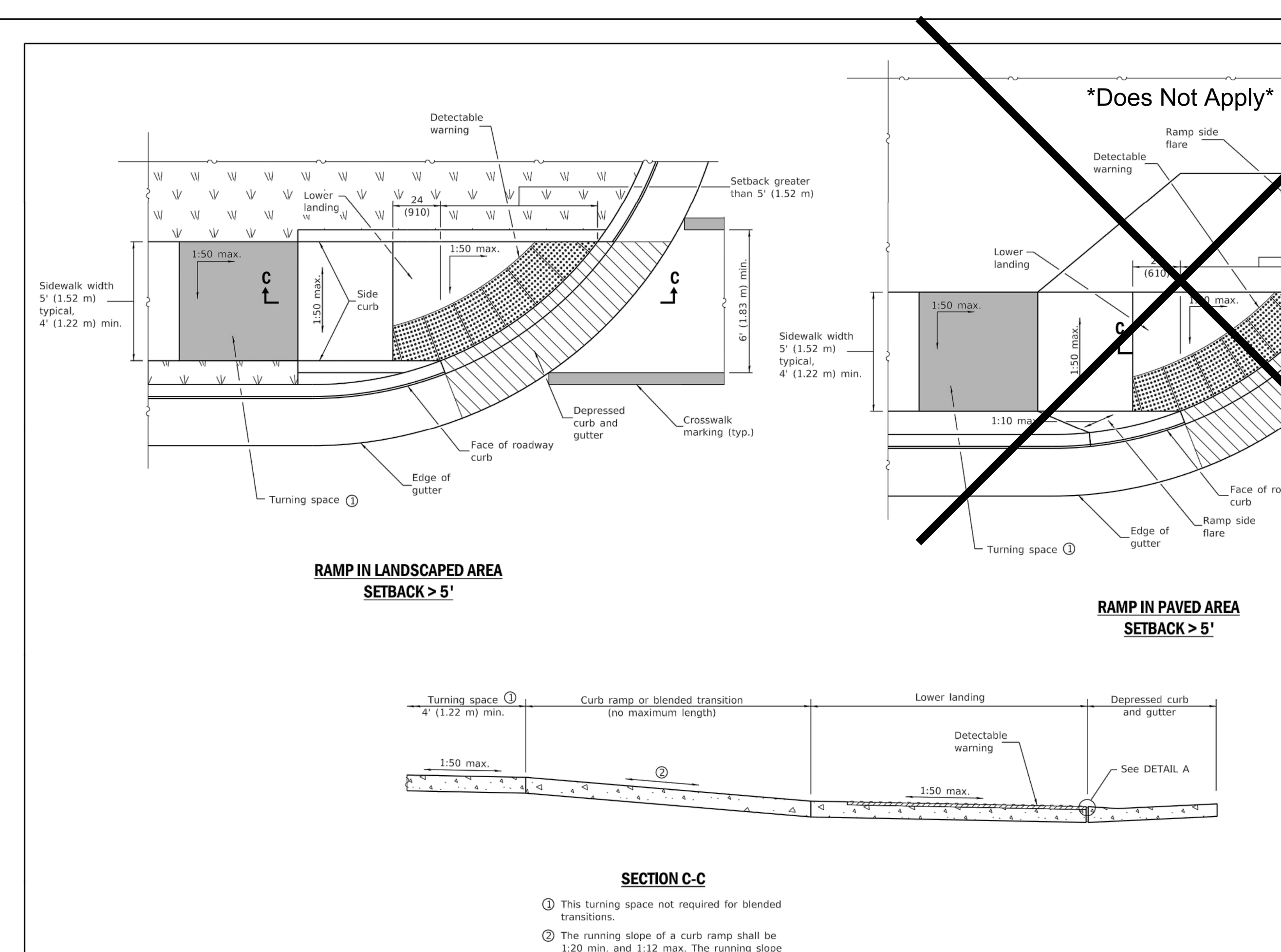
See Sheet 2 for GENERAL NOTES.

Illinois Department of Transportation — PASSED January 1, 2019; APPROVED January 1, 2019; ISSUED 1-1-97

DATE	REVISIONS
1-1-19	Removed "15-foot rule", added "Blended transitions" and placement tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at turning spaces and lower landings.

PERPENDICULAR CURB RAMPS FOR SIDEWALKS (Sheet 1 of 2)

STANDARD 424001-11



GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

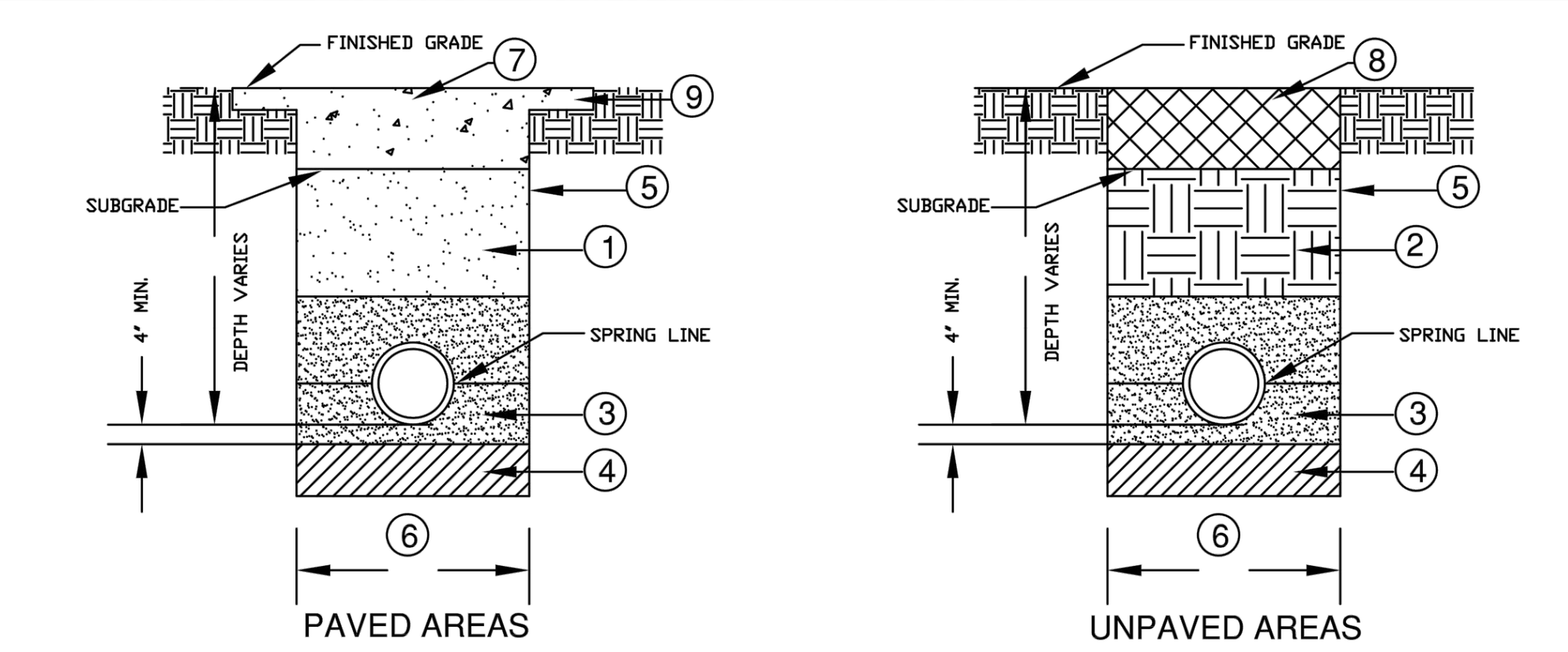
See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation — PASSED January 1, 2019; APPROVED January 1, 2019; ISSUED 1-1-97

PERPENDICULAR CURB RAMPS FOR SIDEWALKS (Sheet 2 of 2)

STANDARD 424001-11



NOTES:

1. BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE 8 OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK.
2. EXCAVATED MATERIAL MAY BE USED UP TO FINAL GRADE IN NON-PAVED AREAS
3. GRAD. NO. CA-7, 8, 11 OR 13 GRAVEL OR LIMESTONE. TO SPRING LINE FOR RIGID PIPE OR 12" ABOVE TOP OF PVC PIPE METHOD 1 COMPACTION PER I.D.O.T. ARTICLE 550.07
4. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" OF STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER
5. TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
6. MAXIMUM PAYABLE TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET
   = 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET
7. STREET CROSS SECTION MUST MATCH THE EXISTING ROADWAY OR THE VILLAGE OF WHEELING TYPICAL STREET CROSS SECTION. WHICHEVER IS GREATER.
   VILLAGE OF WHEELING TYPICAL STREET CROSS SECTIONS ARE OUTLINED BELOW:
   ARTERIAL ROADWAY
   -6" AGGREGATE BASE COURSE. CA-6 GRADE 8 OR 9 VIRGIN STONE
   -8" HOT MIX ASPHALT BINDER COURSE. IL-19.0, N50. (COMPACTED IN LIFTS)
   -0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
   -2" HOT MIX ASPHALT SURFACE COURSE. MIX "C", N50.
   LOCAL ROADWAY
   -6" AGGREGATE BASE COURSE. CA-6 GRADE 8 OR 9 VIRGIN STONE
   -5" HOT MIX ASPHALT BINDER COURSE. IL-19.0, N50. (COMPACTED IN LIFTS)
   -0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
   -2" HOT MIX ASPHALT SURFACE COURSE. MIX "C", N50.
8. 6" OF COMPACTED TOP SOIL
9. SAW CUT BACK 12" FROM TRENCH LIMITS TO PROVIDE CONTINUOUS BUTT JOINT PRIOR TO PAVING.

VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

TRENCH BACKFILL STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS — FILE LOCATION T:\ENGINEERING\STANDARDS

REVISIONS	
S.W.	11-19-04 NO POLY WRAP
C.J.C.	01-20-08 AUTOCAD FILE
K.A.G.	03-07-17 STREET SECTIONS
K.A.G.	1-08-18 BACKFILL MATERIAL
K.A.G.	1-21-20 ADDED NOTE 9

DETAIL NO. UTL-1

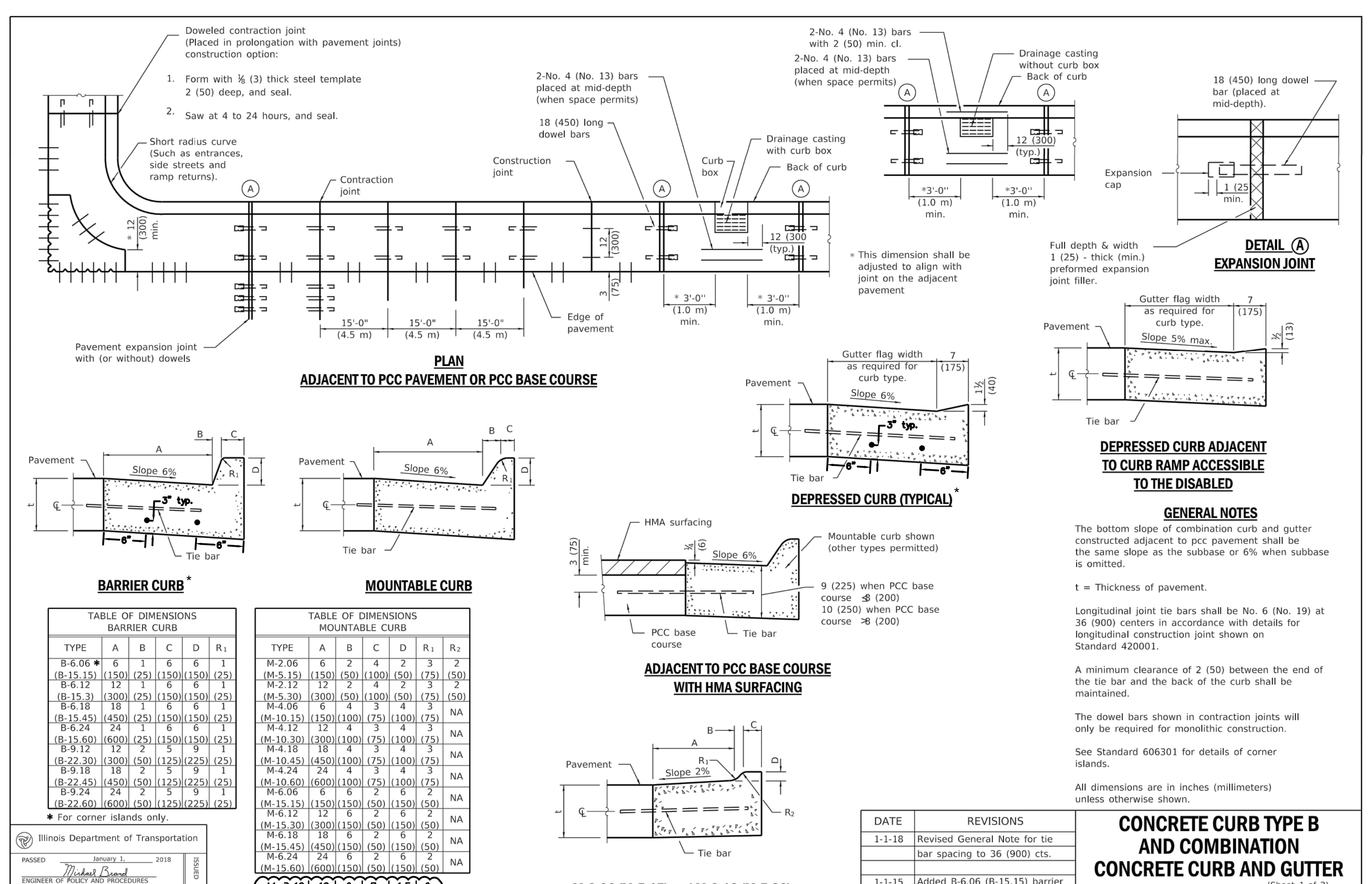


TABLE OF DIMENSIONS BARRIER CURB

TYPE	A	B	C	D	R1
B-6.06 * (B-15.15)	6 (150)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.12 (B-15.3)	12 (300)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.18 (B-15.45)	18 (450)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.24 (B-15.60)	24 (600)	1 (25)	6 (150)	6 (150)	1 (25)
B-9.12 (B-22.30)	12 (300)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.18 (B-22.45)	18 (450)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.24 (B-22.60)	24 (600)	2 (50)	5 (125)	9 (225)	1 (25)

* For corner islands only.

TABLE OF DIMENSIONS MOUNTABLE CURB

TYPE	A	B	C	D	R1	R2
M-2.06 (M-5.15)	6 (150)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-2.12 (M-5.30)	12 (300)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-4.06 (M-10.15)	6 (150)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.12 (M-10.30)	12 (300)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.18 (M-10.45)	18 (450)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.24 (M-10.60)	24 (600)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-6.06 (M-15.15)	6 (150)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.12 (M-15.30)	12 (300)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.18 (M-15.45)	18 (450)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.24 (M-15.60)	24 (600)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-3.12	12	0	7	1.5	0	

GENERAL NOTES

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

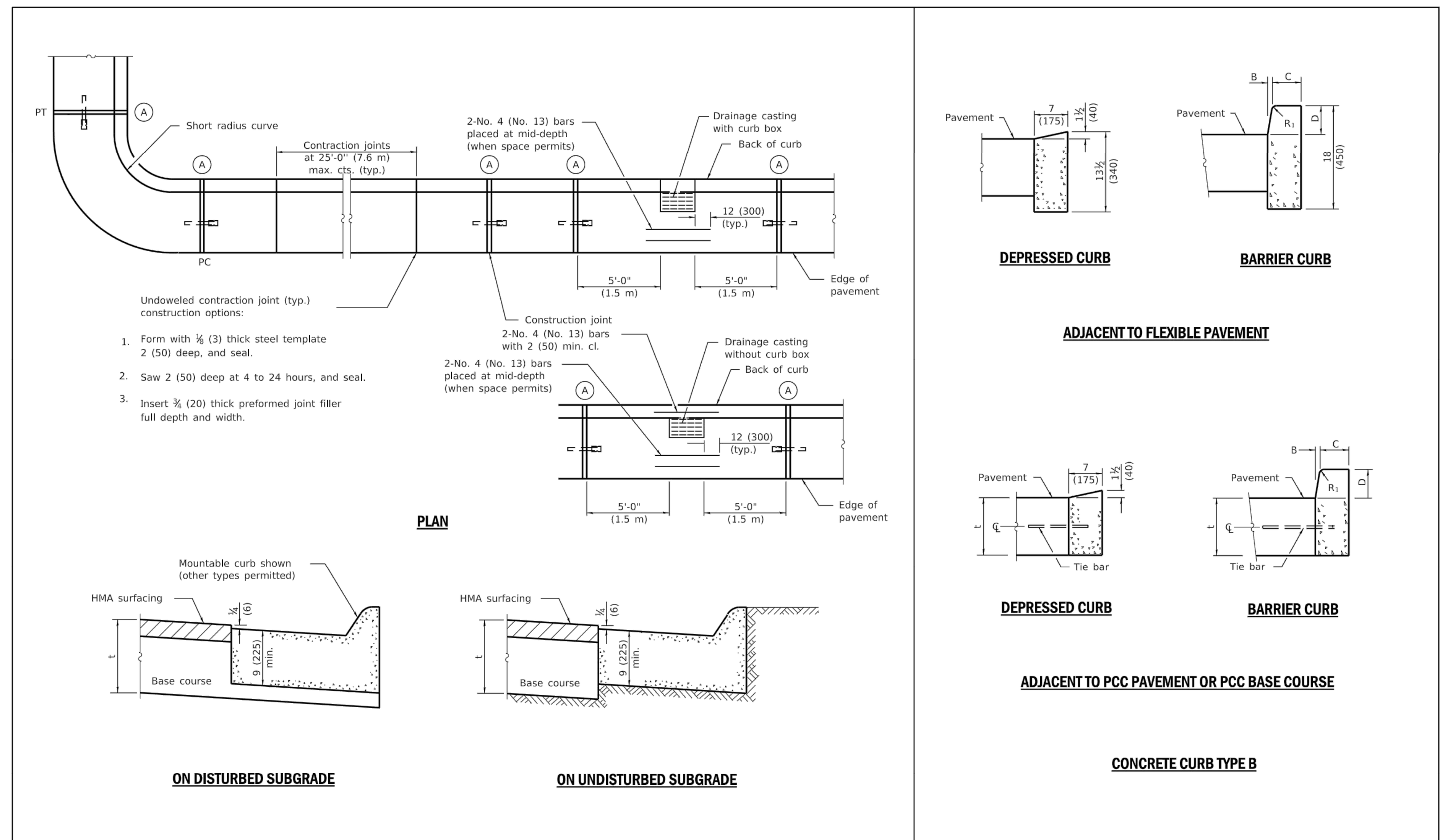
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation — PASSED January 1, 2018; APPROVED January 1, 2018; ISSUED 1-1-97

DATE	REVISIONS
1-1-18	Revised General Note for tie bar spacing to 36 (900) cts.
1-1-15	Added B-6.06 (B-15.15) barrier curb and gutter to table (corner islands only).

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (Sheet 1 of 2)

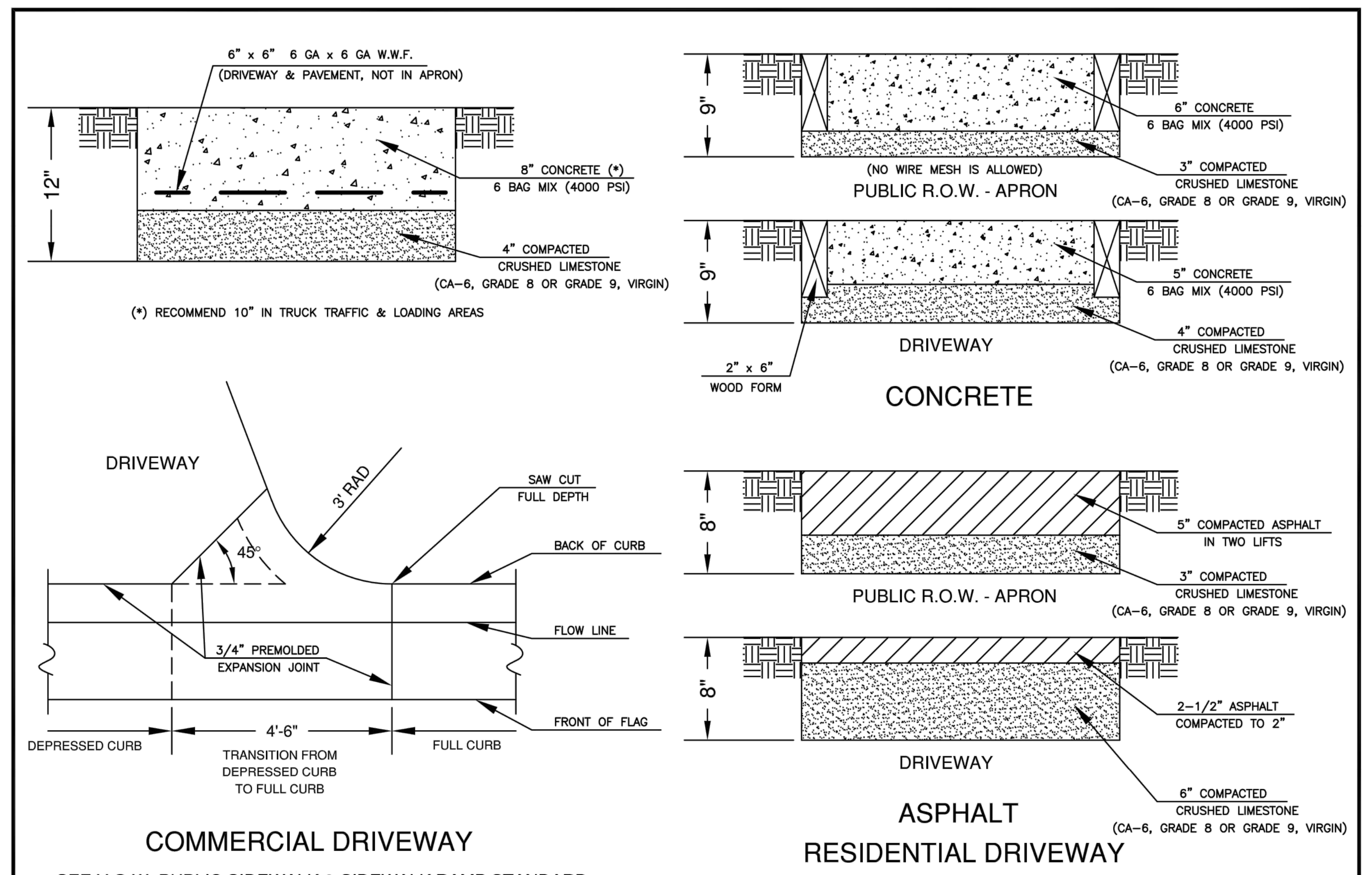
STANDARD 606001-07



Illinois Department of Transportation — PASSED January 1, 2018; APPROVED January 1, 2018; ISSUED 1-1-97

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (Sheet 2 of 2)

STANDARD 606001-07



VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

DRIVEWAY STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS — FILE LOCATION T:\ENGINEERING\STANDARDS

REVISIONS	
S.W.	02-09-06 REVISED PER RG
C.J.C.	11-27-07 AUTOCAD FILE
K.R.G.	12-17-08 APRON AGG. THICK
K.R.G.	03-29-10 REVISED GRADE 9

DETAIL NO. R-1

*All curb and gutter shall include ⅝" diameter steel rebar continuous, placed 3" above bottom of curb and 6" inside front and back edges.

No.	Date	Revision

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STANDARD DETAILS

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM

WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03-06-2020
Project No. 19-197
Sheet C24.0 / C24

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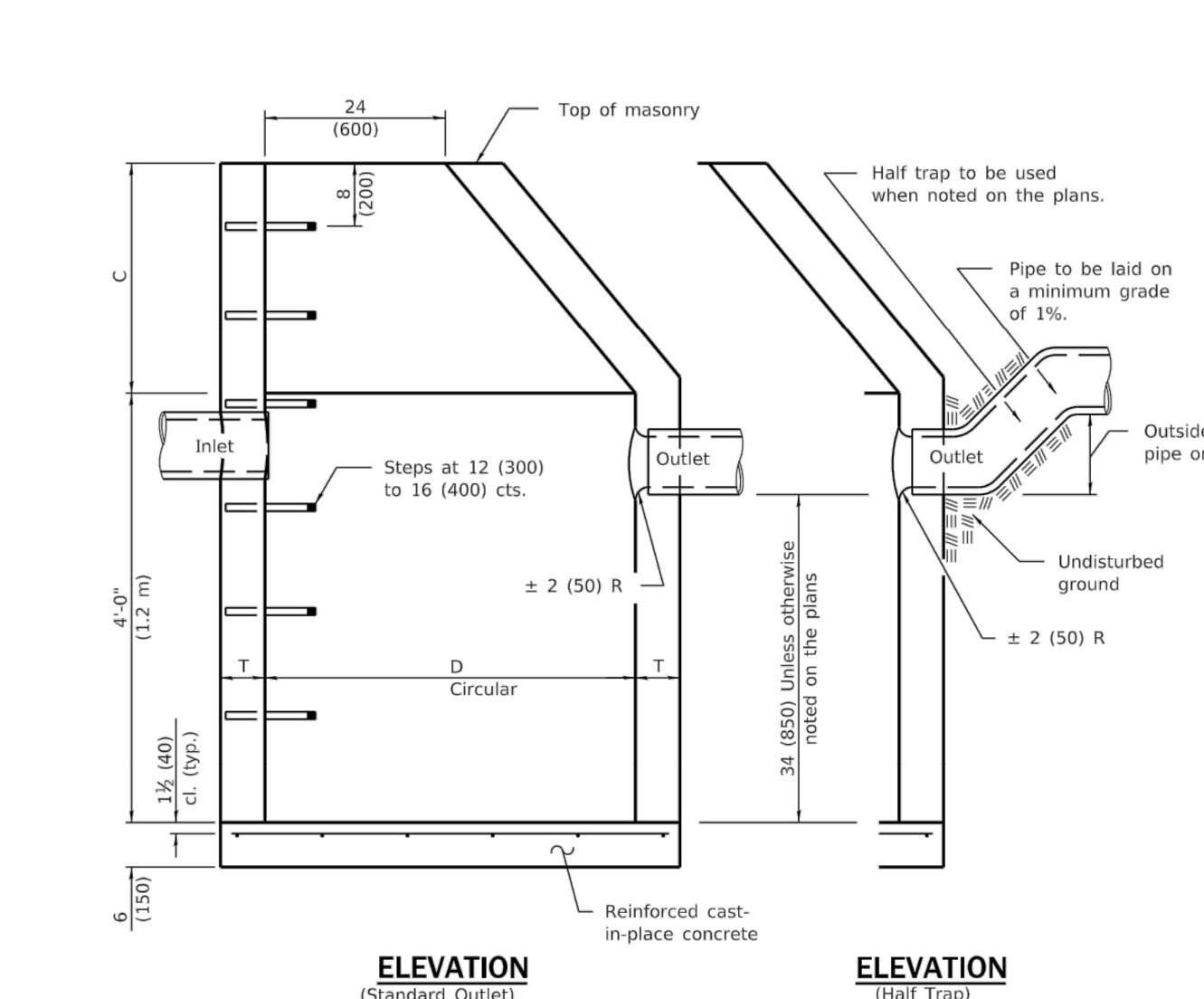
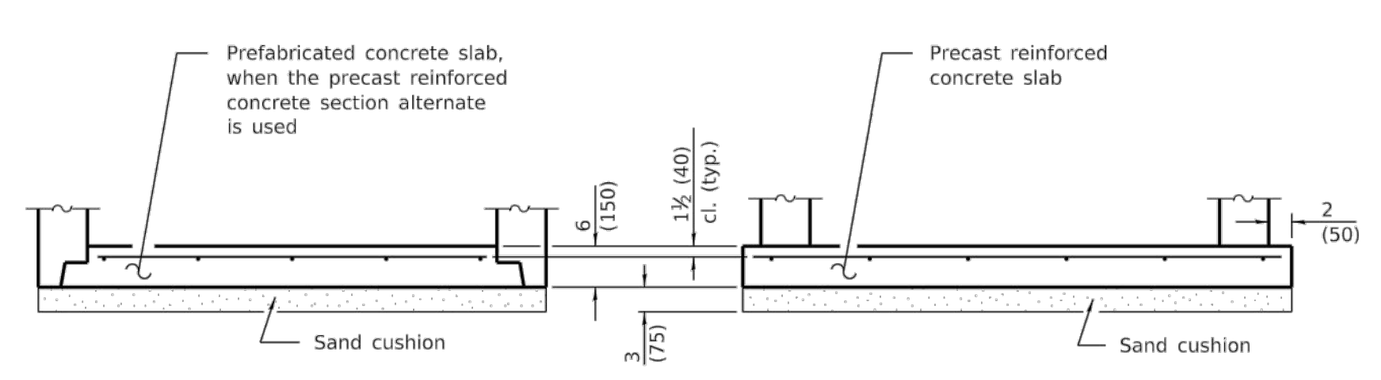
Plot Date: Mar 06, 2020 - 2:32pm Plotted By: josh-l
File Name: C:\Users\josh-l\appdata\local\temp\AcPublish_16052\19197-TITLE-NOTES-DETAILS.dwg



ELEVATION (Standard Outlet)

ELEVATION (Half Trap)



ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Concrete Masonry Unit	4'-0'' (1.2 m) 5'-0'' (1.5 m)	30 (750) 3'-9'' (1.15 m)	5 (125) 5 (125)
Brick Masonry	4'-0'' (1.2 m) 5'-0'' (1.5 m)	30 (750) 3'-9'' (1.15 m)	8 (200) 8 (200)
Precast Reinforced Concrete Section	4'-0'' (1.2 m) 5'-0'' (1.5 m)	30 (750) 3'-9'' (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0'' (1.2 m) 5'-0'' (1.5 m)	30 (750) 3'-9'' (1.15 m)	6 (150) 6 (150)

* For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional precast reinforced concrete flat slab top.

See Standard 602701 for details of steps.

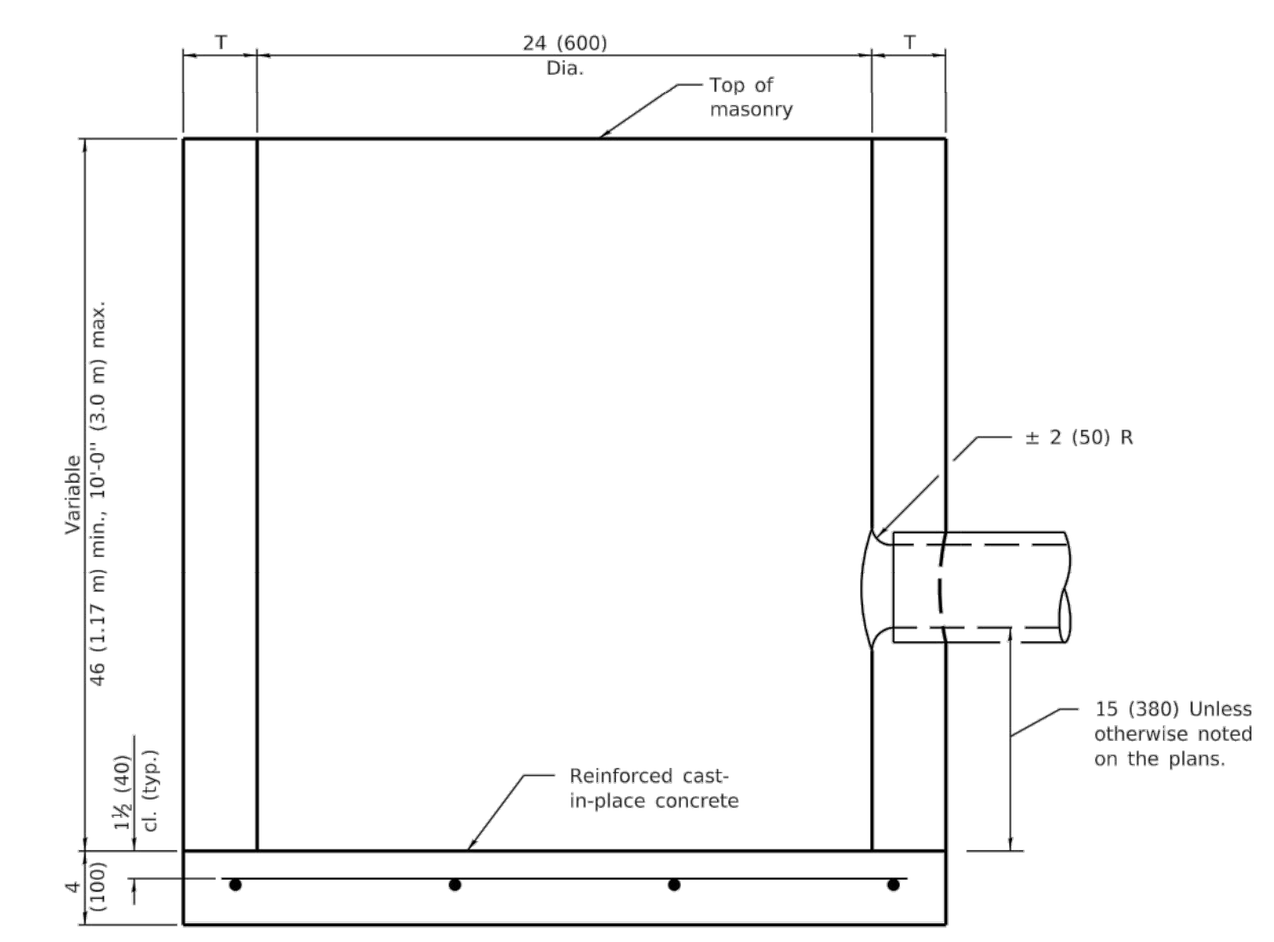
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2011 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Added 'Outside' to half trap note. Detail rein. in slabs. Revised general notes.
1-1-09	Switched units to English (metric).

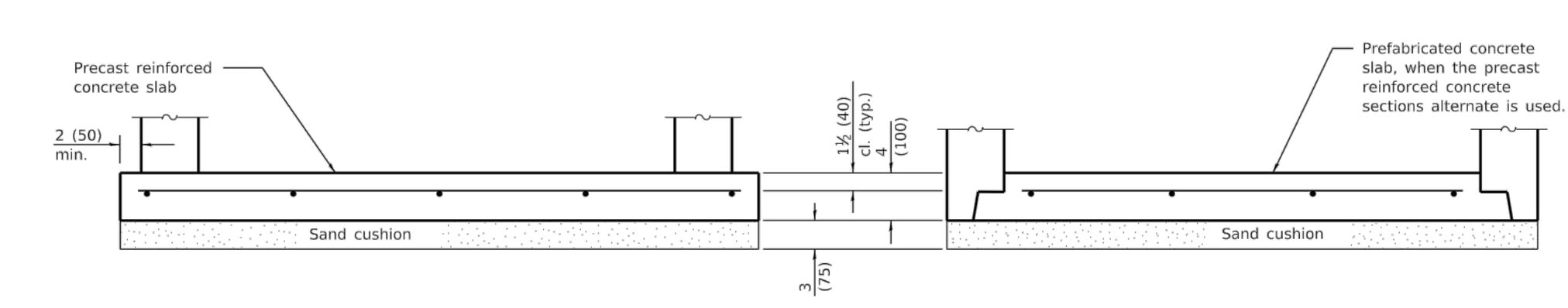
CATCH BASIN TYPE A

STANDARD 602001-02



ELEVATION

ALTERNATE MATERIALS FOR WALLS	T (min)
Precast Reinforced Concrete Section	3 (75)
Concrete Masonry Unit	5 (125)
Cast-in-Place Concrete	6 (150)
Brick Masonry	8 (200)



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.27 sq. in./ft. (570 sq. mm/m) in both directions with a maximum spacing of 9 (230).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

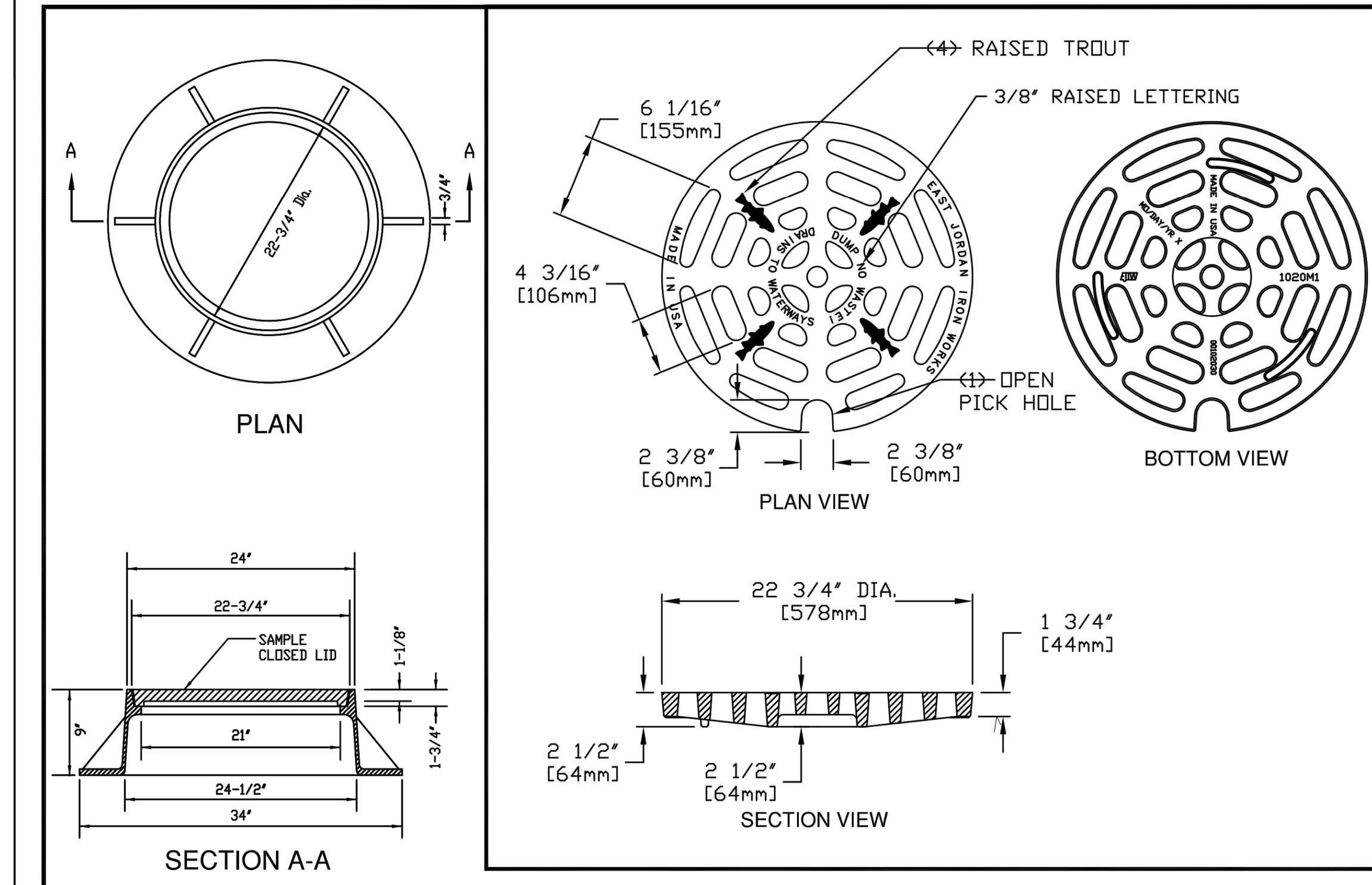
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2011 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Detailed rein. in slabs. Added max. limit to height. Added general notes.
1-1-09	Switched units to English (metric).

CATCH BASIN TYPE C

STANDARD 602011-02



FURNISH HEAVY DUTY CASTING AS REQUIRED BY THE VILLAGE ENGINEER

(*) or NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17

(*) 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

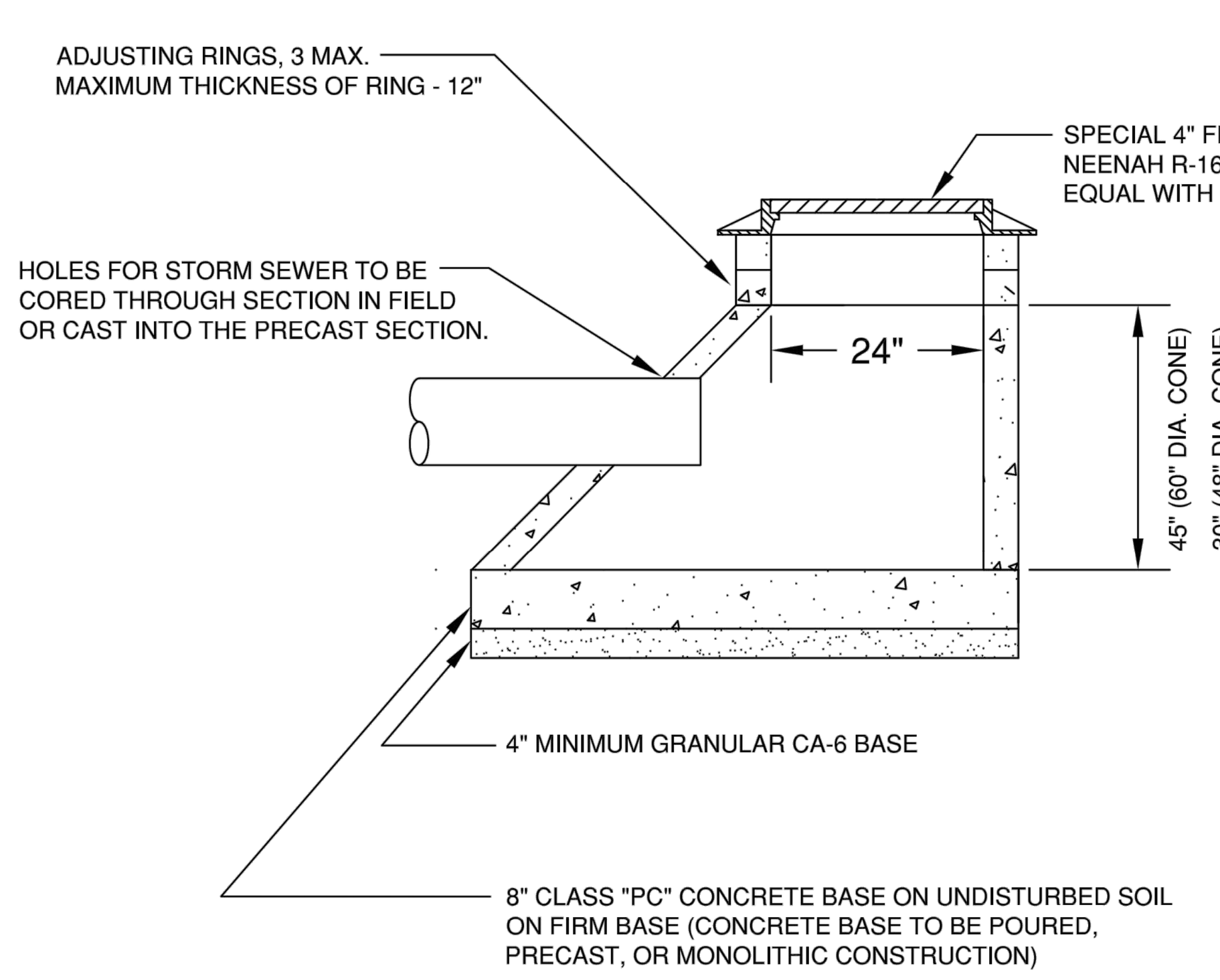
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

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



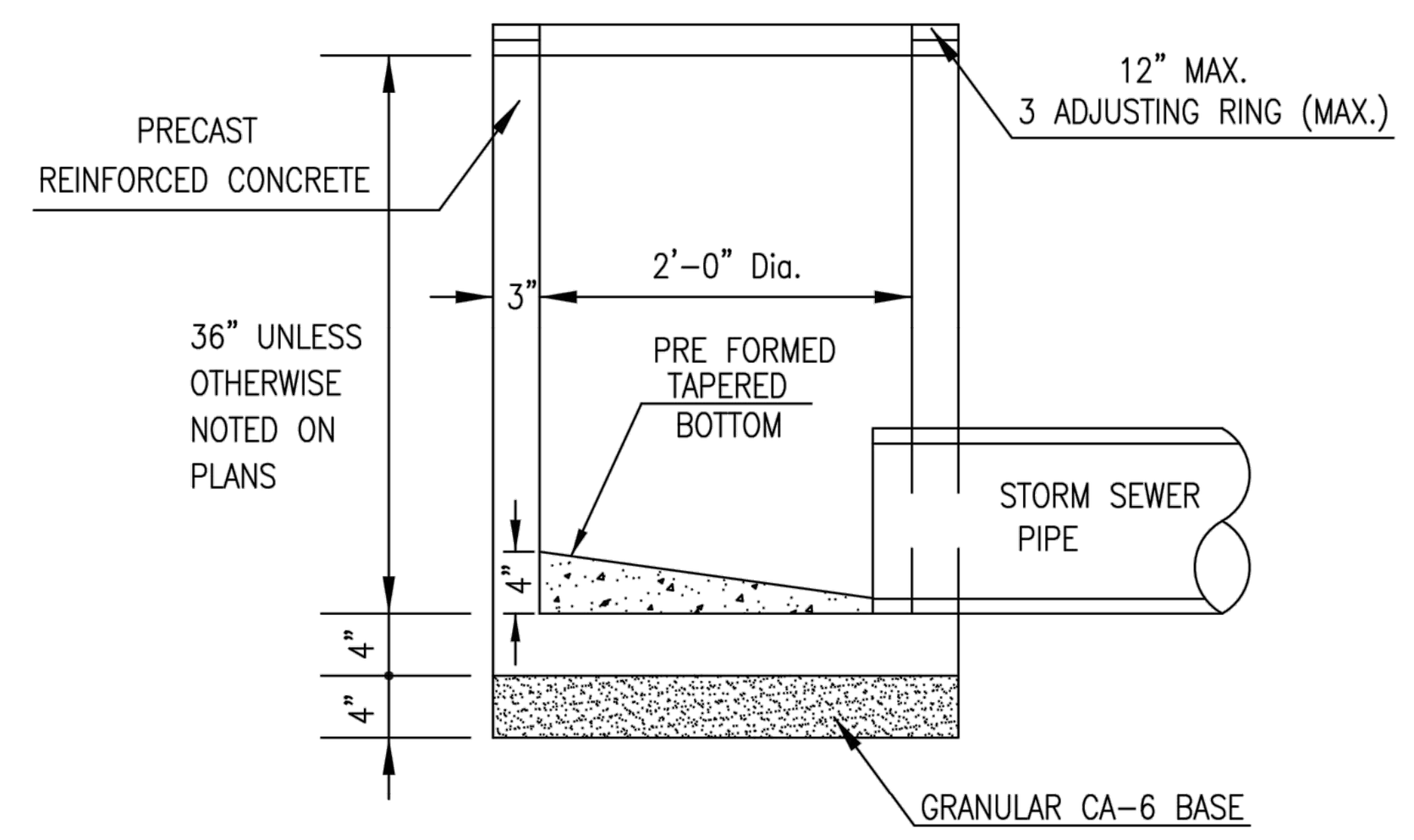
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

RESTRICTED DEPTH CATCH BASIN STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS — FILE LOCATION T:\ENGINEERING\STANDARDS

REVISIONS	
P.F.	8-20-01 AUTOCAD FILE
S.W.	11-08-01 PER COMMENTS
S.W.	2-27-03 PER COMMENTS
K.R.G.	9-11-06 AUTOCAD FILE

DETAIL NO. ST-3



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

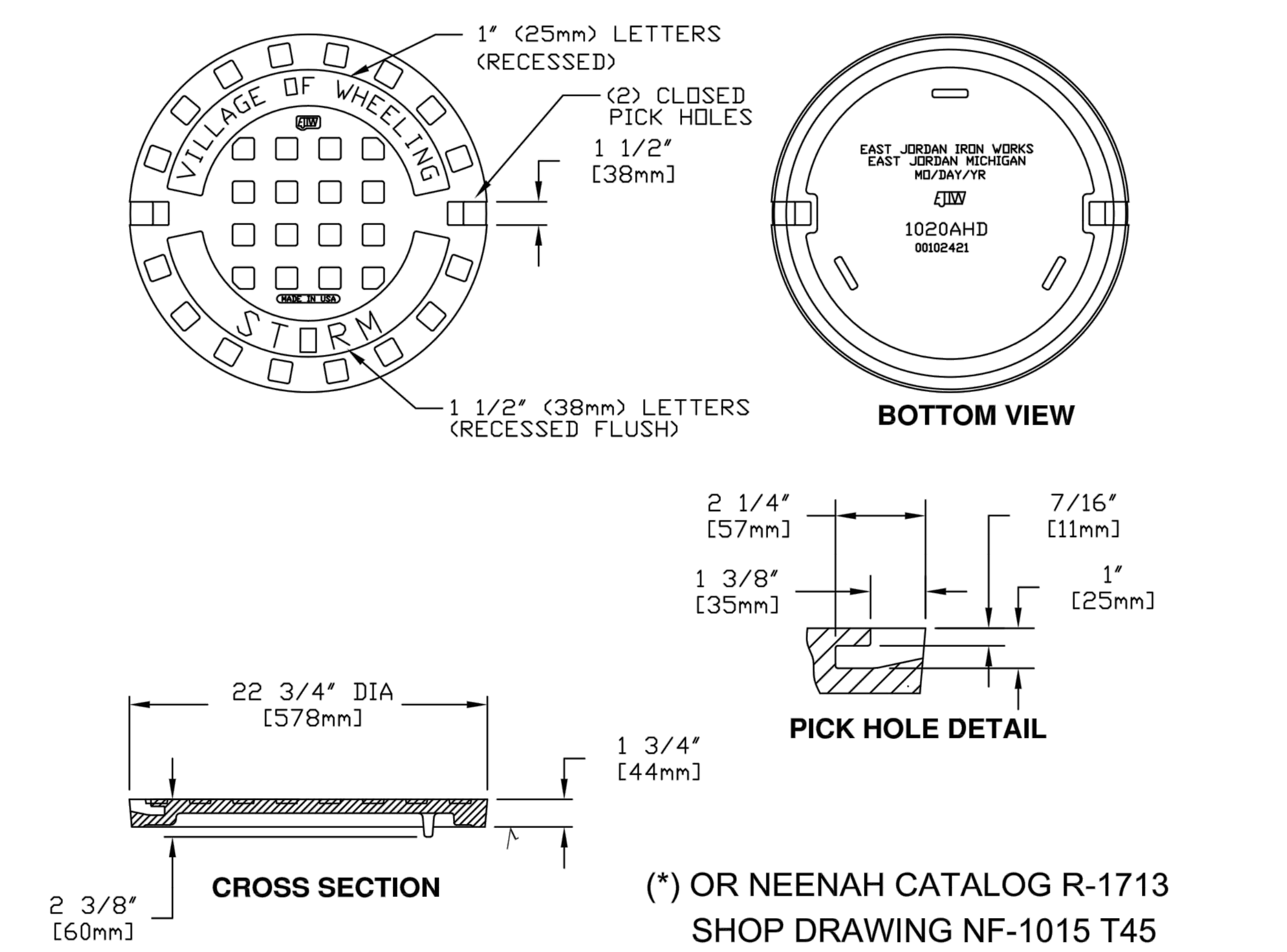
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

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



(*) 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**

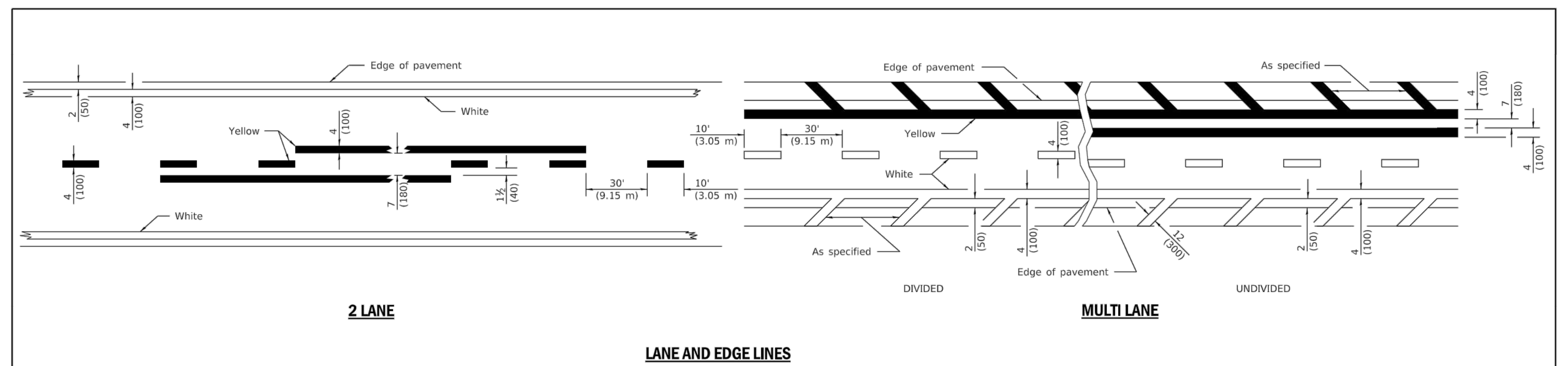
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

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

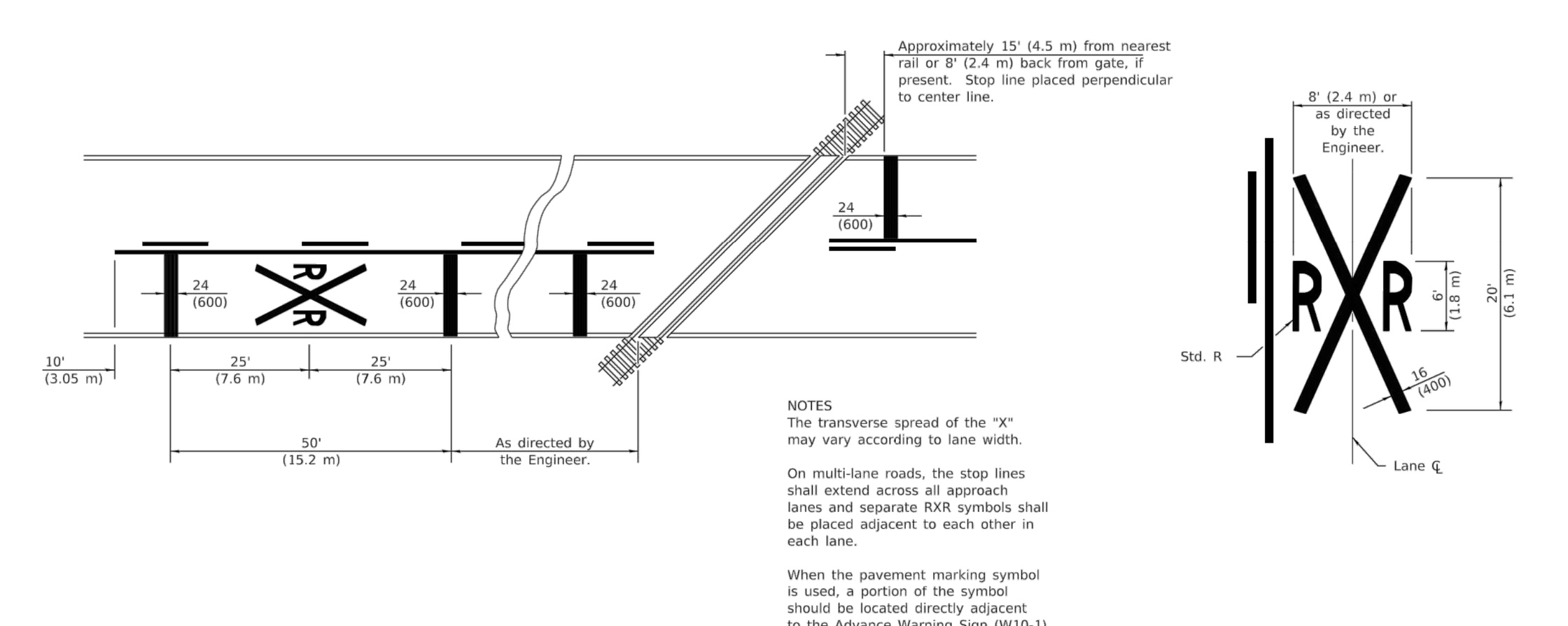
DETAIL NO. ST-7



2 LANE

MULTI LANE

LANE AND EDGE LINES



NOTES
The transverse spread of the "X" may vary according to lane width.

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXR symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

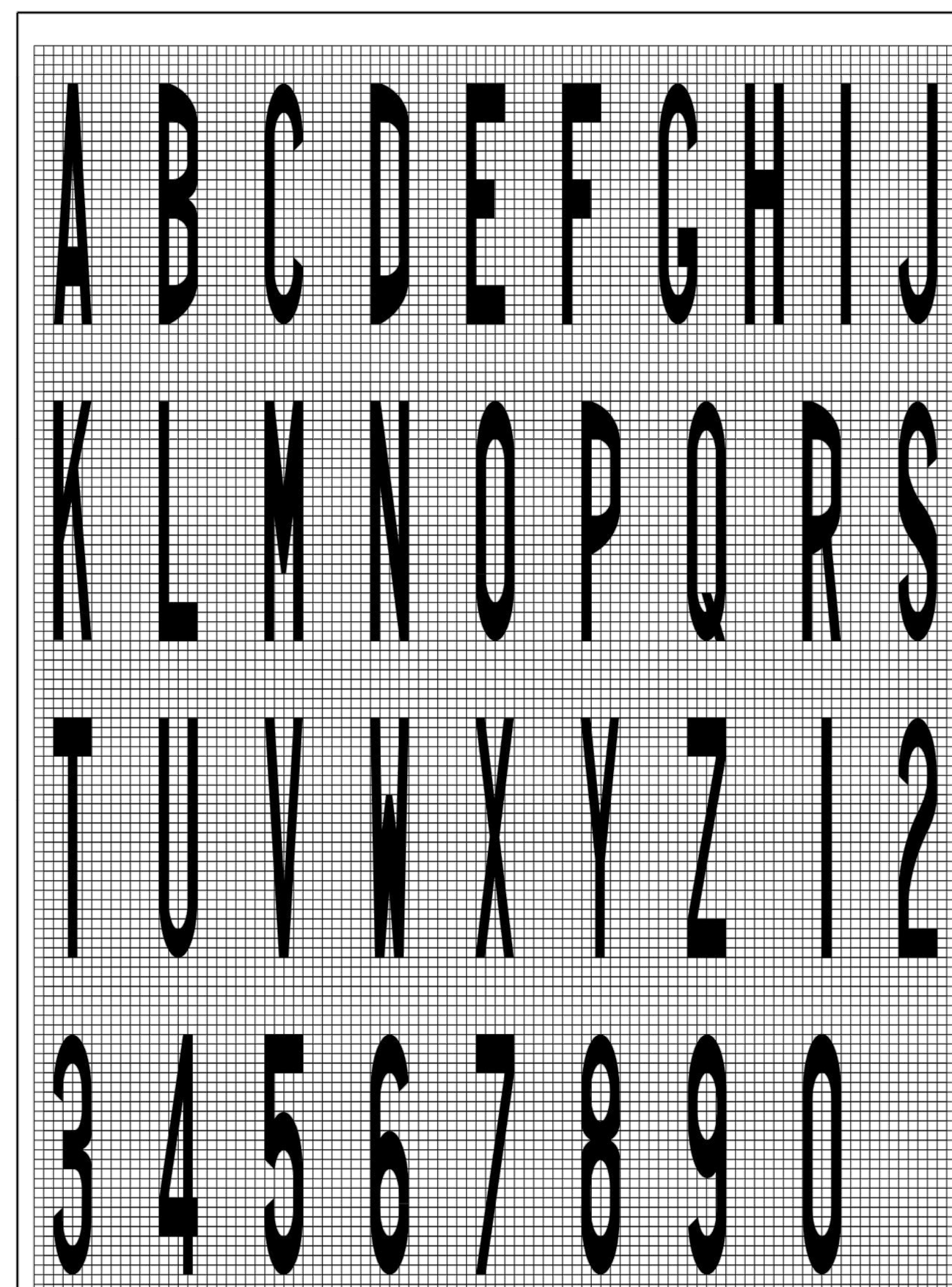
All dimensions are in inches (millimeters) unless otherwise shown.

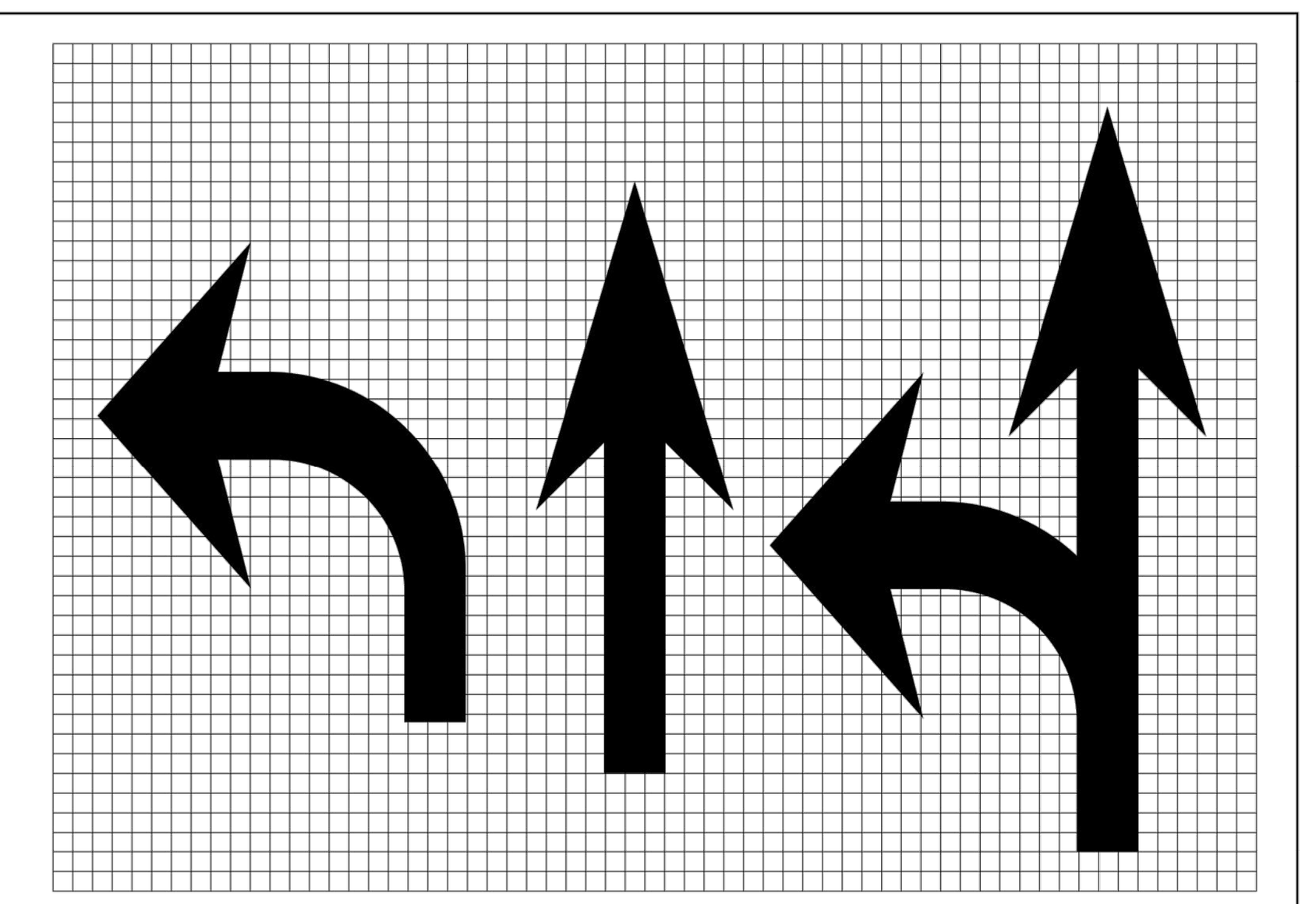
Illinois Department of Transportation
PASSED January 1, 2015 — ENGINEER OF OPERATIONS
APPROVED January 1, 2015 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed 'LANE DROP ARROW' detail to 'LANE-REDUCTION ARROW'.

TYPICAL PAVEMENT MARKINGS (Sheet 1 of 3)

STANDARD 780001-05





Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

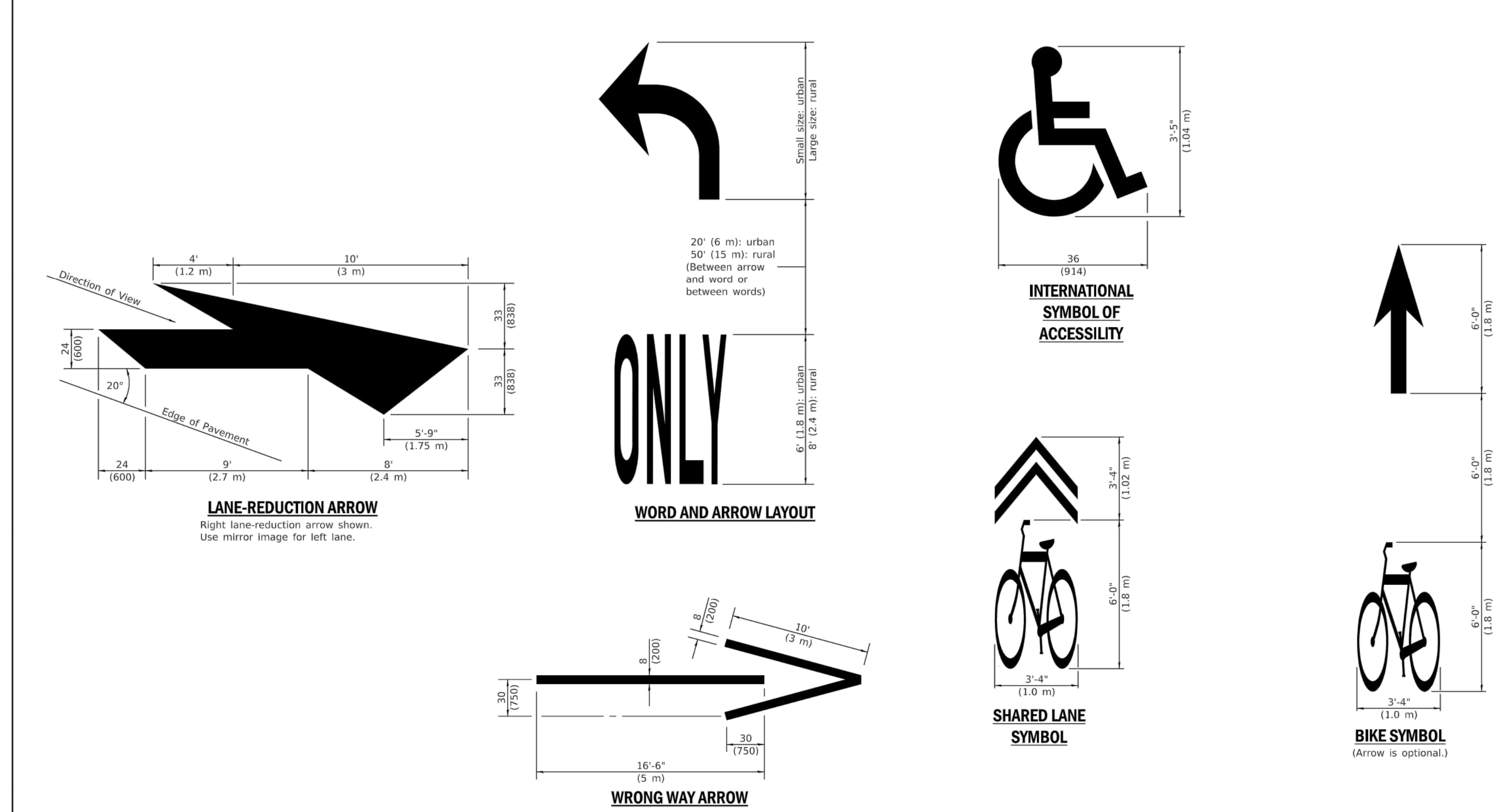
The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE

Illinois Department of Transportation
PASSED January 1, 2015 — ENGINEER OF OPERATIONS
APPROVED January 1, 2015 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

TYPICAL PAVEMENT MARKINGS (Sheet 2 of 3)

STANDARD 780001-05



LANE-REDUCTION ARROW
Right lane-reduction arrow shown. Use mirror image for left lane.

WORD AND ARROW LAYOUT

INTERNATIONAL SYMBOL OF ACCESSILITY

WRONG WAY ARROW

SHARED LANE SYMBOL

BIKE SYMBOL
(Arrow is optional.)

Illinois Department of Transportation
PASSED January 1, 2015 — ENGINEER OF OPERATIONS
APPROVED January 1, 2015 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

TYPICAL PAVEMENT MARKINGS (Sheet 3 of 3)

STANDARD 780001-05

No.	Date	Revision

HAEGER ENGINEERING
consulting engineers • land surveyors
100 E. State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003152
www.haegerengineering.com

STANDARD DETAILS

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM

WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03-06-2020
Project No. 19-197
Sheet **C24.1** / C24

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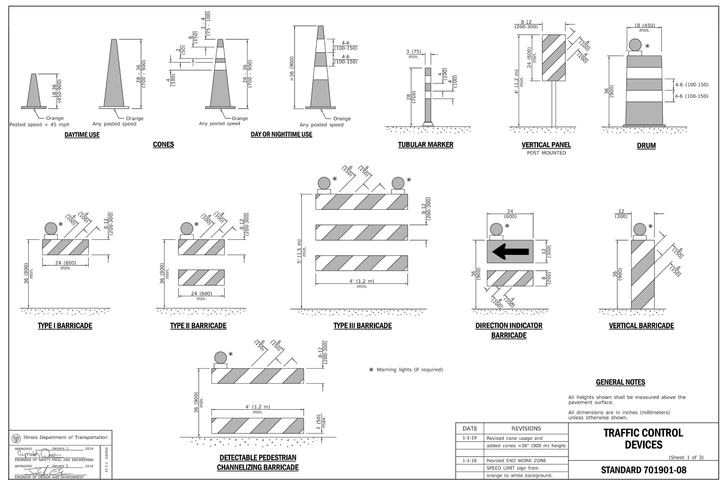
Plot Date: Mar 06, 2020 - 2:32pm Plotted By: josh-l
File Name: C:\Users\josh-l\appdata\local\temp\AcPublish_16052\19197-TITLE-NOTES-DETAILS.dwg



GENERAL NOTES

All heights shown shall be measured above the pavement surface.

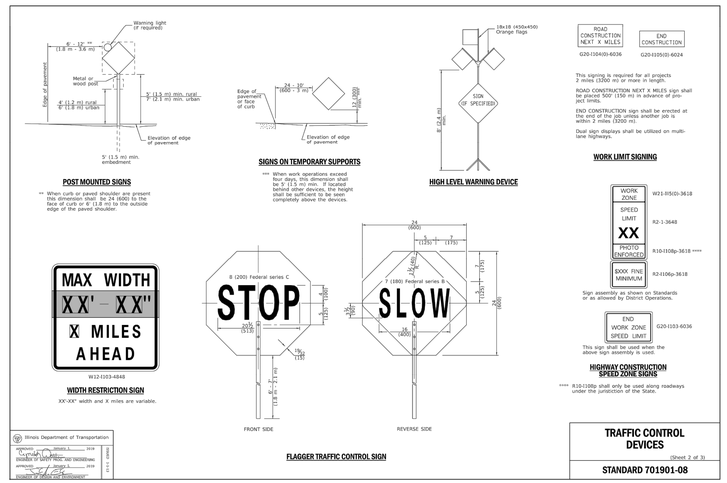
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE
	SPEED LIMIT sign from orange to white background.

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901-08



ROAD CONSTRUCTION NEXT X MILES	END CONSTRUCTION
G20-I104(0)-6036	G20-I105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

WORK ZONE	W21-II5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-I108p-3618 ****
$500 FINE MINIMUM	R2-II106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT	G20-I103-6036

This sign shall be used when the above sign assembly is used.

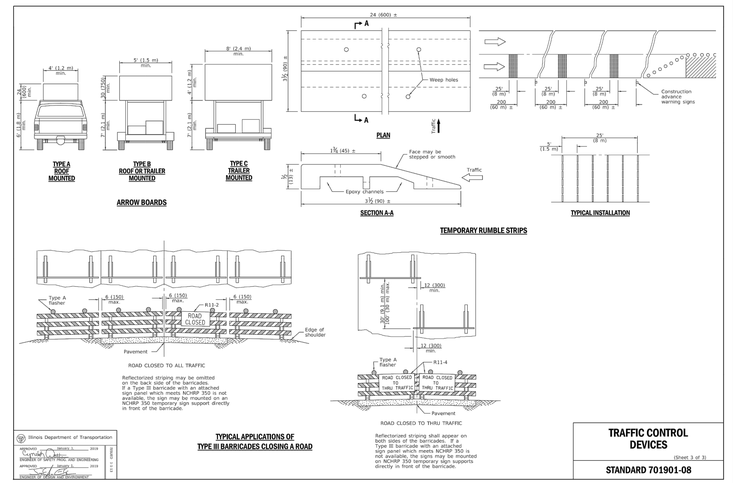
HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

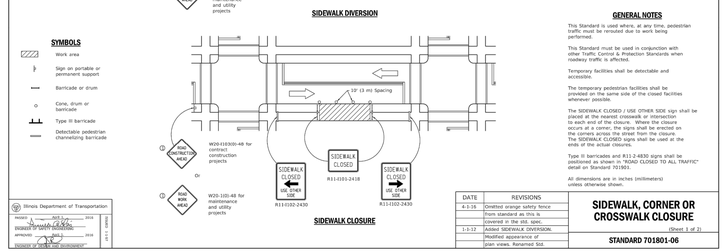
STANDARD 701901-08



TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-08



GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be located on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection before the closure. If the closure or detour occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

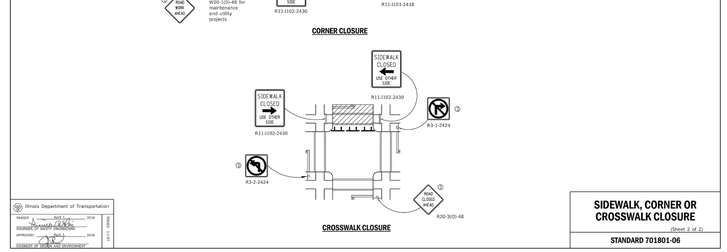
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
4-1-16	Omitted orange safety fence.
	Trom standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views. Renamed Std.

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

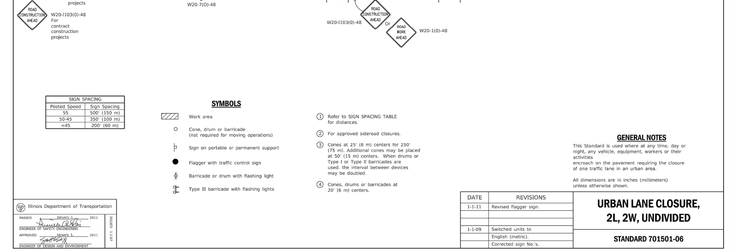
STANDARD 701801-06



SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

STANDARD 701801-06



DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501-06

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04

GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

CLASS C and D PATCHES

STANDARD 442201-03

STANDARD DETAILS

VILLAGE OF WHEELING 2020 STREET IMPROVEMENT PROGRAM

WHEELING, ILLINOIS

No.	Revision	Date

HAEGER ENGINEERING
consulting engineers • land surveyors
100 E. State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No.: 184-003152
www.haegerengineering.com

Project Manager: M L A
Engineer: J D L
Date: 03-06-2020
Project No. 19-197
Sheet **C24.2** / C24

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Plot Date: Mar 06, 2020 - 2:32pm Plotted By: josh-l
File Name: C:\Users\josh-l\appdata\local\temp\AcPublish_16052\19197-TITLE-NOTES-DETAILS.dwg

PROPOSED SHORELINE STABILIZATION & POND / BANK IMPROVEMENTS
For Ridgefield Subdivision Village of Wheeling, Illinois

GENERAL PLAN NOTES
1. PLAN DRAWINGS REQUIRE APPROVAL OF VILLAGE OF WHEELING, US ARMY CORPS OF ENGINEERS & CCHD PRIOR TO START OF WORK.
2. ACTUAL QUANTITIES MAY VARY DEPENDING ON SUBSURFACE CONDITIONS, VEGETATION CONDITION & EXTENT OF EROSION. CONTRACTOR TO JOINTLY VERIFY FIELD QUANTITIES WITH HOME OWNERS ASSOCIATION, PROJECT ENGINEER & VILLAGE ENGINEER.

GENERAL NOTES
1. ALL WORK SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012 AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED, LATEST EDITION, REFERRED TO AS THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED IN THESE PLANS OR THE SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF WHEELING ENGINEERING DEPARTMENT AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
3. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO BEGINNING ANY EXCAVATION WORK.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING UTILITY LOCATIONS AND ELEVATIONS, PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
5. ANY DAMAGE DONE BY THE CONTRACTOR TO EXISTING UNDERGROUND UTILITIES OR SURFACE IMPROVEMENTS TO REMAIN SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SIGNS, BARRICADES, AND FENCES AS REQUIRED TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAW AND SHALL TAKE ADDITIONAL SAFETY MEASURES NECESSARY TO PROTECT ABUTTING PROPERTIES, UTILITIES, PEDESTRIANS, AND TRAFFIC.
7. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS.
8. THE CONTRACTOR SHALL NOTIFY RESIDENTS 24 HOURS PRIOR FOR POND ACCESS PATHWAYS AND SHALL USE A VILLAGE APPROVED DOOR HANGER CARD WITH ALL IMPORTANT CONSTRUCTION SCHEDULE INFORMATION DISPLAYED.
9. THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS TO THE ADJACENT PROPERTIES FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES.
10. FOR TREES TO BE SAVED, TEMPORARY FENCE PROTECTION SHALL BE PLACED AROUND THE PERIMETER OF ALL TREES IN THE CONSTRUCTION ZONE TO PROTECT THEM FROM THE CONTRACTOR'S OPERATIONS. ANY TREES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE VILLAGE OR HOME OWNERS ASSOCIATION.
11. ALL ELEVATIONS ARE BASED ON NAVD '88 DATUM.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LAYOUT AND STAKING, WHICH SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL VERIFY ALL CONTROL POINTS AND PROPERTY CORNERS PRIOR TO CONSTRUCTION.

EROSION CONTROL AND RESTORATION NOTES
1. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND TOWNSHIP REQUIREMENTS. IN CASES OF CONFLICT, THE MORE STRINGENT PROVISION SHALL GOVERN.
2. THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR EROSION CONTROL FOR THE DURATION OF CONSTRUCTION.
3. THE EROSION CONTROL SHOWN IS THE MINIMUM REQUIRED FOR THE SITE. THE VILLAGE OF WHEELING AND ITS GOVERNING BODIES MAY REQUIRE ADDITIONAL MEASURES BE INSTALLED AT ANY TIME DURING THE COURSE OF CONSTRUCTION.
4. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
5. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING WITHIN 7 DAYS OF THE COMPLETION OF GRADING IN THAT AREA. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH IDOT SECTION 280.
6. ALL OPEN-LID DRAINAGE STRUCTURES SHALL BE PROTECTED BY FILTER BASKETS PLACED BETWEEN THE FRAME AND LID OF THE STRUCTURE. FILTER BASKETS SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED OR PAVING IS COMPLETED. FILTER BASKETS SHALL BE IN ACCORDANCE WITH IDOT SECTION 1081.15.
7. THE SEEDING SHALL BE GUARANTEED FOR A PERIOD OF ONE FULL GROWING SEASON (APRIL TO OCTOBER) FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE TOTAL PROJECT AS ESTABLISHED BY THE ENGINEER FOR LOSS DUE TO FAULTY MATERIALS, WORKMANSHIP OR PROCEDURE.
8. CONTRACTOR RESPONSIBLE FOR ANY SWPPP EROSION CONTROL PLAN AS REQUIRED BY THE VILLAGE OF WHEELING OR THE US ARMY CORP OF ENGINEERS.

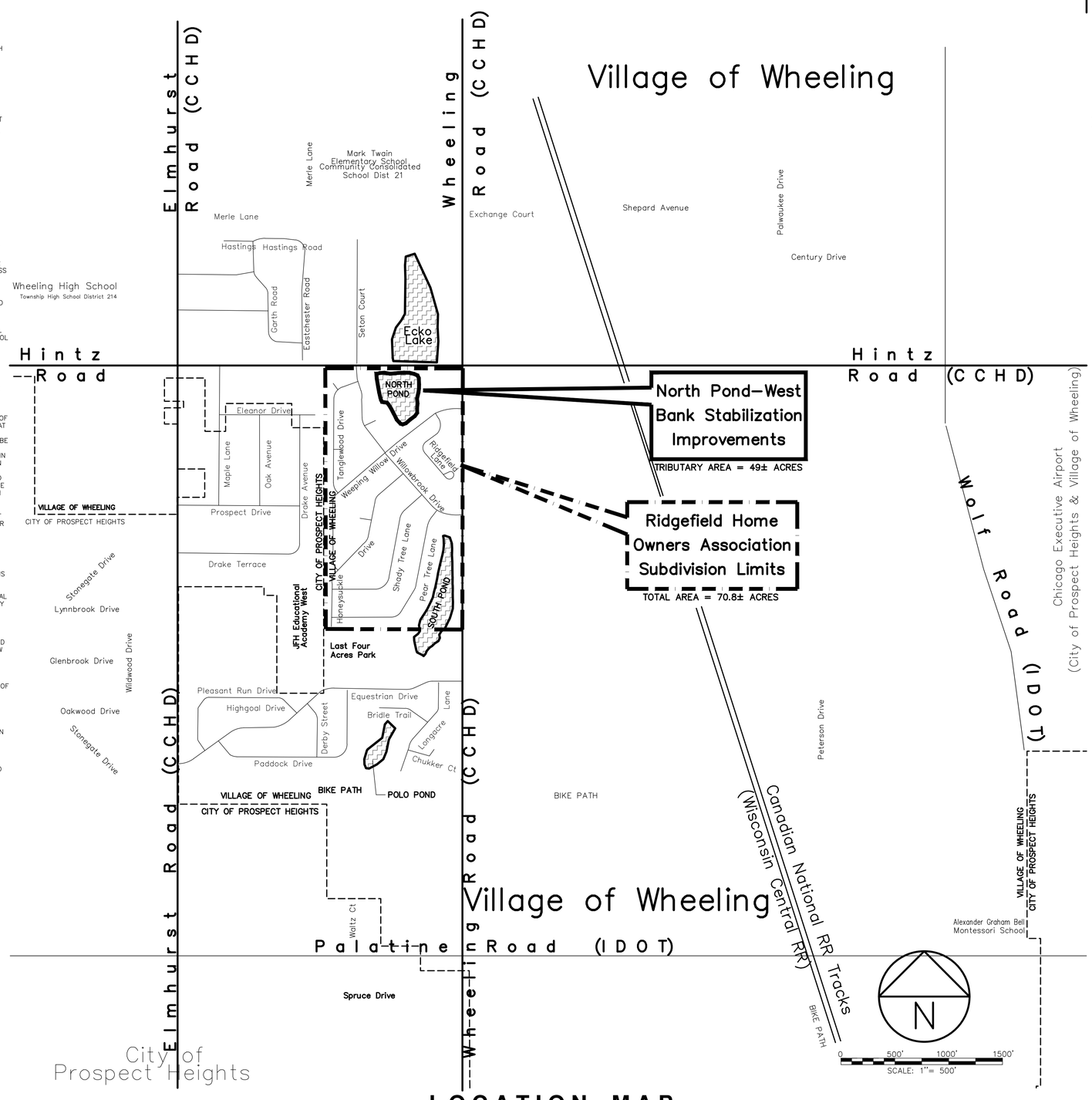
UTILITY NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS IN THE FIELD.
2. ALL TRENCHES UNDER OR WITHIN TWO FEET OF ANY EXISTING OR PROPOSED PAVEMENT, DRIVEWAYS, SIDEWALKS, OR BUILDINGS SHALL BE BACKFILLED WITH CA-6 GRANULAR MATERIAL MECHANICALLY COMPACTED IN SIX-INCH HORIZONTAL LAYERS. EACH LAYER SHALL BE EVENLY SPREAD, MOISTENED (OR DRIED, IF NECESSARY), AND THEN TAMPED OR ROLLED UNTIL 90 PERCENT RELATIVE COMPACTION IS ACHIEVED.
3. ALL DRAINAGE STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE. THIS SHALL BE INCIDENTAL TO THE COST OF THE STRUCTURE.
4. EXISTING RESIDENTIAL SUMP PUMP DISCHARGE LINES AND ANY DRAIN TILES ENCOUNTERED DURING INSTALLATION OF THE STORM SEWERS SHALL BE EXTENDED INTO THE PONDS BELOW THE NORMAL WATER LINE.

EROSION CONTROL CONSTRUCTION SEQUENCE:
A. CONTRACTOR SHALL INSTALL SILT FENCE AT LOCATIONS INDICATED PRIOR TO THE START OF EXCAVATION AND MOBILIZATION FOR THE POND BANK REPAIRS.
B. CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR ALL EXISTING STORM SEWER STRUCTURES PRIOR TO THE START OF WORK.
C. CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR ALL NEW & REPAIRED STORM STRUCTURES IMMEDIATELY UPON COMPLETION OF THE INSTALLATION/REPAIR.
D. CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING OR PERMANENT SEEDING AND EROSION CONTROL BLANKET WITHIN 7 DAYS OF THE COMPLETION OF GRADING IN ANY AREA.

INSPECTION/MAINTENANCE SCHEDULE:
A. CONTRACTOR SHALL INSPECT SILT FENCE AND INLET PROTECTION MEASURES WEEKLY AND WITHIN 24 HOURS AFTER ANY STORM OF 0.5 INCHES OR GREATER RAINFALL. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY FOLLOWING INSPECTION.
B. CONTRACTOR SHALL CONDUCT STREET SWEEPING AS NEEDED AND AS DIRECTED BY THE ENGINEER OR VILLAGE TO REMOVE ACCUMULATED SEDIMENT.
C. CONTRACTOR SHALL PROTECT SEEDED AREAS FROM VEHICULAR AND FOOT TRAFFIC.
D. ANY AREAS WHERE SEEDLING EMERGENCE IS POOR OR EROSION OCCURS SHALL BE RESEEDED.

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



LOCATION MAP

TOTAL NORTH & SOUTH POND AREA = 7.36± ACRES TOTAL NORTH & SOUTH POND BANK LENGTH = 4,000± FEET

CIVIL ENGINEERING PLAN SET SHEET INDEX:

C-1 TITLE & NOTES SHEET
C-2 NORTH POND EXHIBIT (SCALE: 1"=30')
C-3 EXISTING TOPOGRAPHY & DEMOLITION
C-4 SITE PLAN (SCALE: 1"=20')
C-5 UTILITY PLAN (SCALE: 1"=20')
C-6 GRADING & EROSION PLAN (SCALE: 1"=20')
C-7 GRADING SECTIONS KEY SHEET
X-1N POND CROSS-SECTIONS
X-2N POND CROSS-SECTIONS
C-8 VILLAGE OF WHEELING STANDARD DETAIL SHEET
C-9 DETAIL SHEET

HOMEOWNERS ASSOCIATION
RIDGEFIELD SUBDIVISION
PRESIDENT: DAN GEBHARDT
996 HONEYSUCKLE DR.
WHEELING, IL 60090-5732
WORK #: (847) 317-8800
HOME #: (847) 459-5078
CELL #: (847) 571-6749
EMAIL: Dan.Gebhardt@us.astellas.com
WEBSITE ADDRESS:
ridgefieldhomeowners.org
EMAIL:
ridgefieldhomeowners@comcast.net

MAREK LANDSCAPING, LLC
Attention: Mike Marek
820 East Knapp St.
Milwaukee, WI, 53202
PHONE: (414) 272-0242
FAX: (414) 272-0243
mike@marekLandscaping.com

NORMAN J. TOBERMAN & ASSOCIATES, LLC.
CONSULTING CIVIL ENGINEERS & SURVEYORS
115 S. WILKE ROAD
SUITE 301
ARLINGTON HTS., IL 60005
(847) 439-8225
FAX (847) 749-4104
mail@toberman.us
www.toberman.us

DESIGN FIRM NO: 184005910
EXPIRES: 04-30-17

DRAWN BY:KR/SF/CJT | CHECKED: CJT
SUBMIT DATE: 7/17/16

No.	Date	Revision
1	07/11/16	INITIAL SUBMIT

CLIFFORD J. TOBERMAN
050567
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

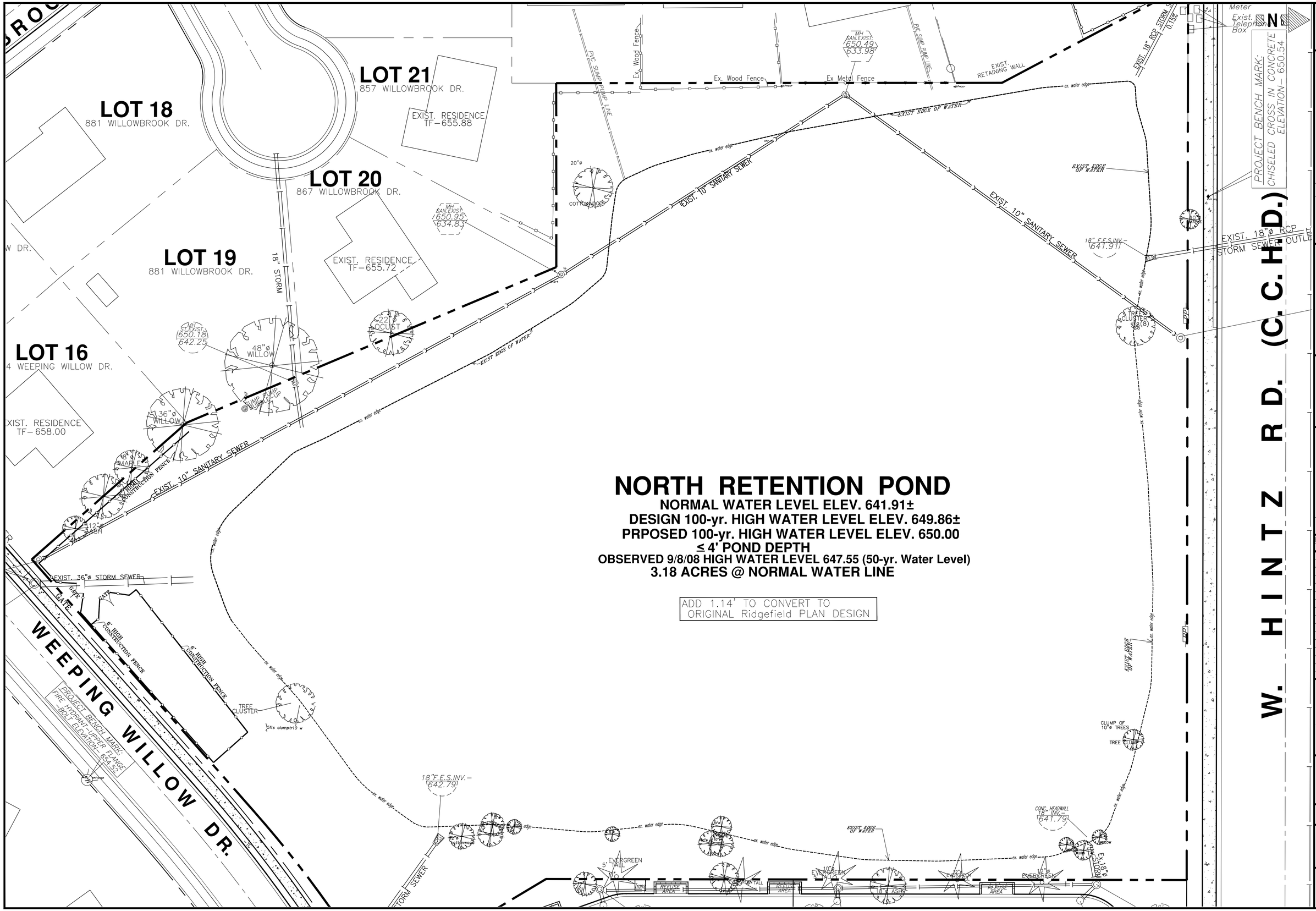
PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
16-6529

TITLE & NOTES SHEET

Sheet No.
C-1

PLOT DATE: 6/14/17
PLOTTED BY: CJT



NORTH RETENTION POND

NORMAL WATER LEVEL ELEV. 641.91±
DESIGN 100-yr. HIGH WATER LEVEL ELEV. 649.86±
PRPOSED 100-yr. HIGH WATER LEVEL ELEV. 650.00
≤ 4' POND DEPTH
OBSERVED 9/8/08 HIGH WATER LEVEL 647.55 (50-yr. Water Level)
3.18 ACRES @ NORMAL WATER LINE

ADD 1.14' TO CONVERT TO ORIGINAL Ridgefield PLAN DESIGN

0 10' 20'
SCALE: 1"= 20'

LEGEND

EXISTING	PROPOSED
Combined Sewer	
Sanitary Sewer	
Storm Sewer	
Sanitary Manhole	
Storm Manhole	
Catch Basin	
Inlet	
Down Spout	
Water Main & Services	
Valve & Vault	
Pressure Connection	
Valve & Box	
Fire Hydrant	
Structure to be Abandoned	
Power Pole	
623.45 Pavement or Ground	
623 Contour	676
Drainage Arrow	
Neenah Frame & Lid No.	
Structure Size "d" Type	
Structure No.	1-A (48") R-1772-B
683.42 Rim Elevation	684.35
679.75 Invert Elevation	679.75

HOMEOWNERS ASSOCIATION
RIDGEFIELD SUBDIVISION
PRESIDENT: DAN GEBHARDT
996 HONEYSUCKLE DR.
WHEELING, IL. 60090-5732
WORK #: (847) 317-8800
HOME #: (847) 459-5078
CELL #: (847) 571-6749
EMAIL: Dan.Gebhardt@us.astellas.com
WEBSITE ADDRESS:
ridgefieldhomeowners.org
EMAIL:
ridgefieldhomeowners@comcast.net

MAREK LANDSCAPING , LLC
Attention: Mike Marek
820 East Knapp St.
Milwaukee, WI, 53202
PHONE: (414) 272-0242
FAX: (414) 272-0243
mike@mareklandscaping.com

NORMAN J. TOBERMAN & ASSOCIATES, LLC.
CONSULTING CIVIL ENGINEERS & SURVEYORS
115 S. WILKE ROAD
SUITE 301
ARLINGTON HTS., IL 60005
(847) 439-8225
FAX (847) 749-4104
mail@toberman.us
www.toberman.us
DESIGN FIRM NO: 184005910
EXPIRES: 04-30-17

DRAWN BY:KR/SF/CJT | CHECKED: CJT
SUBMIT DATE: 7/12/16

No.	Date	Revision
1	07/12/16	INITIAL SUBMIT

NORMAN J. TOBERMAN 050567 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

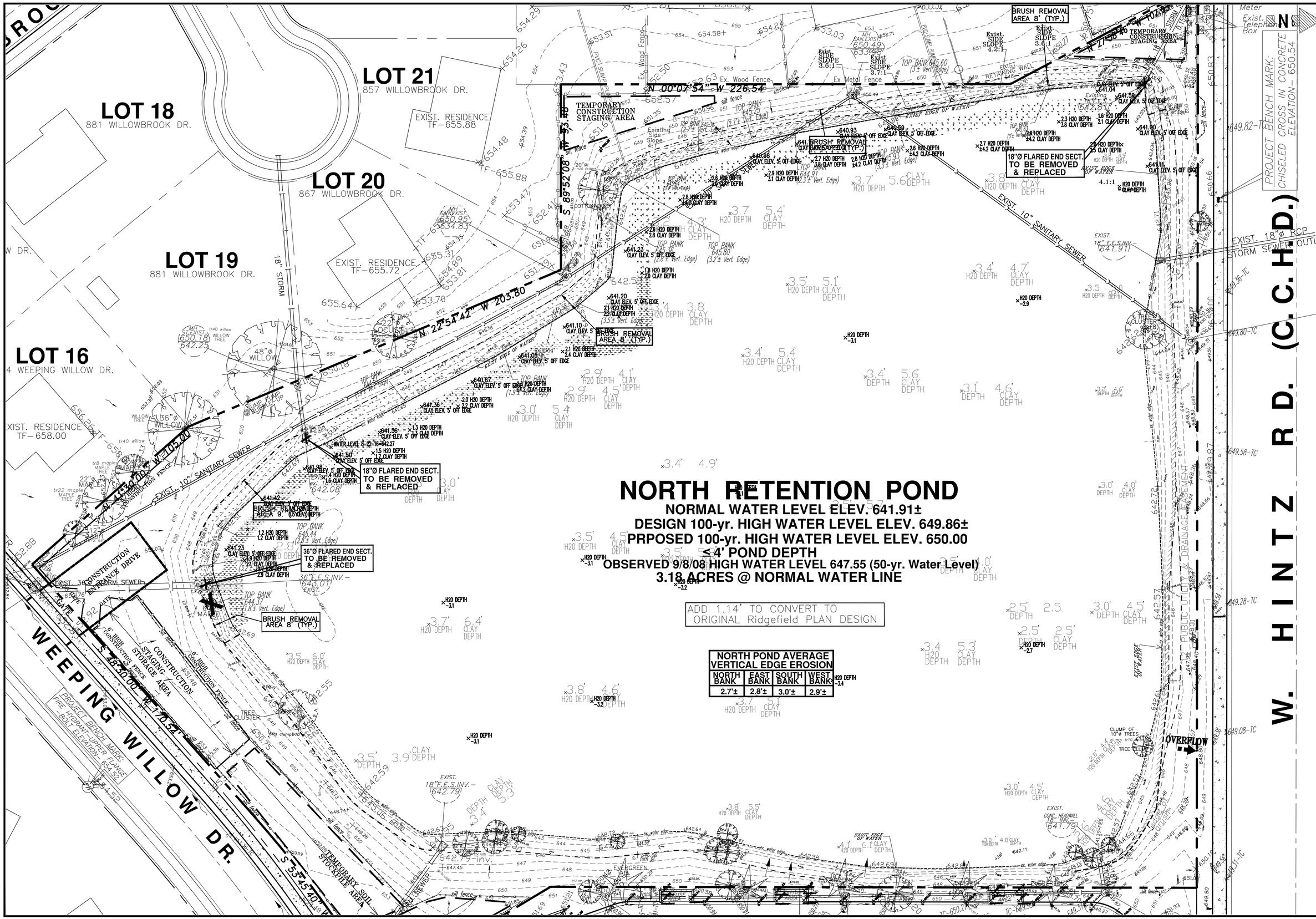
NJT Project No.
16-6529

NORTH POND EXHBIT

Sheet No.
C-2

CJT PLOT DATE: 6/14/17

R. D. W. HINTZ (C. C. H. D.)



NORTH RETENTION POND

NORMAL WATER LEVEL ELEV. 641.91±
DESIGN 100-yr. HIGH WATER LEVEL ELEV. 649.86±
PRPOSED 100-yr. HIGH WATER LEVEL ELEV. 650.00
≤ 4' POND DEPTH
OBSERVED 9/8/08 HIGH WATER LEVEL 647.55 (50-yr. Water Level)
3.18 ACRES @ NORMAL WATER LINE

ADD 1.14' TO CONVERT TO ORIGINAL Ridgefield PLAN DESIGN

NORTH POND AVERAGE VERTICAL EDGE EROSION

NORTH BANK	EAST BANK	SOUTH BANK	WEST BANK
2.7'±	2.8'±	3.0'±	2.9'±

SCALE: 1"= 20'

LEGEND

EXISTING / PROPOSED
Combined Sewer
Sanitary Sewer
Storm Sewer
Sanitary Manhole
Storm Manhole
Catch Basin
Inlet
Down Spout
Water Main & Services
Valve & Vault
Pressure Connection
Valve & Box
Fire Hydrant
Structure to be Abandoned
Power Pole
Pavement or Ground
Contour
Drainage Arrow
Neenah Frame & Lid No.
Structure Size "d"
Type
Structure No. 1-A (48") R-1772-B
Rim Elevation
Invert Elevation

HOMEOWNERS ASSOCIATION
RIDGEFIELD SUBDIVISION
PRESIDENT: DAN GEBHARDT
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WHEELING, IL. 60090-5732
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CONSULTING CIVIL ENGINEERS & SURVEYORS
115 S. WILKE ROAD
SUITE 301
ARLINGTON HTS., IL 60005
(847) 439-8225
FAX (847) 749-4104
mail@toberman.us
www.toberman.us
DESIGN FIRM NO: 184005910
EXPIRES: 04-30-17

DRAWN BY: KR/SF/CJT | CHECKED: CJT
SUBMIT DATE: 7/12/16

No.	Date	Revision
1	07/12/16	INITIAL SUBMIT

CLIFFORD J. TOBERMAN
050567
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
16-6529

DEMOLITION & EXIST. TOPO. PLAN

Sheet No.
C-3
CJT PLOT DATE: 08/05/16

LOT 21
857 WILLOWBROOK DR.

LOT 18
881 WILLOWBROOK DR.

LOT 20
867 WILLOWBROOK DR.

LOT 19
881 WILLOWBROOK DR.

LOT 16
4 WEEPING WILLOW DR.

EXIST. RESIDENCE
TF=655.88

EXIST. RESIDENCE
TF=655.72

EXIST. RESIDENCE
TF=658.00

Ex. Wood Fence

Ex. Wood Fence — N 00°07'54" W 226.54'

8' Proposed Native Planting Area
(see landscape plan for specifications)

EXIST. RETAINING WALL

N 27°58'46" W 107.03'

STONE RIP-RAP
(REFER TO DETAIL FOR SPECS.)

S 89°52'08" W 93.48'

4-TIER FILTREXX FILTERSOXX

8' Proposed Native Planting Area
(see landscape plan for specifications)

EXIST. EDGE OF WATER

4-TIER FILTREXX FILTERSOXX™

STONE SAFETY SHELF & EMERGENT AQUATIC PLANTINGS (see landscape plans)

4-TIER FILTREXX FILTERSOXX™ (295'±)
(SEE LANDSCAPE PLANS FOR PLANT MIX SPECIFICATIONS)

20"ø COTTONWOOD

STONE SHELF & EMERGENT AQUATIC PLANTINGS (see landscape plans)

Limestone Outcroppings (see landscape plans)

5:1 SIDESLOPE

644 645 646 647

1' TO 2' SHALLOW DEPTH PLANTED SAFETY SHELF AREA

PROPOSED EDGE OF WATER (Typical)

PROPOSED FILTREXX SHORELINE STABILIZATION
565 ± L.F. OF FILTREXX FILTERSOXX™
(SEE LANDSCAPE PLANS FOR PLANT / SEED MIX SPECIFICATIONS)

N 22°54'42" W 203.80'

22"ø LOCUST

48"ø WILLOW

SUMP PUMP DISCHARGE PIPE

36"ø WILLOW

4-TIER FILTREXX FILTERSOXX™

8' Proposed Native Planting Area
(see landscape plan for specifications)

EXIST. EDGE OF WATER

4-TIER FILTREXX FILTERSOXX™ (135'±)
(SEE LANDSCAPE PLANS FOR PLANT MIX SPECIFICATIONS)

STONE SHELF & EMERGENT AQUATIC PLANTINGS (see landscape plans)

PROPOSED EDGE OF WATER (Typical)

STONE RIP-RAP
(REFER TO DETAIL FOR SPECS.)

EXCAVATE & INSTALL GEO-TEXTILE FABRIC UNDERLAYMENT AND 4-6" COBBLESTONE SCOUR PROTECTION LAYER AT ALL PROPOSED FLARED END SECTIONS BEYOND RIP-RAP APRON (TYPICAL)

4-TIER FILTREXX FILTERSOXX

8' Proposed Native Planting Area
(see landscape plan for specifications)

4-TIER FILTREXX FILTERSOXX™ (SEE LANDSCAPE PLANS FOR PLANT MIX SPECIFICATIONS)

EXIST. EDGE OF WATER

STONE RIP-RAP
(REFER TO DETAIL FOR SPECS.)

STONE SHELF & EMERGENT AQUATIC PLANTINGS (see landscape plans)

2-TIER FILTREXX FILTERSOXX

S 41°40'00" W 105.00'

6' HIGH CONSTRUCTION FENCE

22"ø MAPLE

12"ø ASH

GATE

S 41°40'00" W 170.54'

6' HIGH CONSTRUCTION FENCE

TREE CLUSTER

6fts clumptr10 w

OUTCROPPING

WEEPING WILLOW DR.

PROJECT BENCH MARK:
FIRE HYDRANT - UPPER FLANGE BOLT ELEVATION = 654.53

S 53°45'40" W

ex. water edge

EXIST. EDGE OF WATER

5' EVERGREEN TALL

S 00°00'00" W 325.68'

REFUSE AREA

10"ø EVERGREEN

18"ø ASH

CLUMP OF 10"ø TREES

TREE CLUMP 5

N 89°59'50" E 455.18'

W. HINTZ

R. D. (C. C. H. D.)

PROJECT BENCH MARK:
CHISELED CROSS IN CONCRETE
ELEVATION = 650.54

Meter

Exist. Telephone Box

8' Proposed Native Planting Area
(see landscape plan for specifications)

LOT 15 / PIN 03-15-211-018-0000
(800 S. WHEELING RD.)

NORTH RETENTION POND

NORMAL WATER LEVEL ELEV. 641.91±
DESIGN 100-yr. HIGH WATER LEVEL ELEV. 649.86±
PRPOSED 100-yr. HIGH WATER LEVEL ELEV. 650.00
≤ 4' POND DEPTH
OBSERVED 9/8/08 HIGH WATER LEVEL 647.55 (50-yr. Water Level)
3.18 ACRES @ NORMAL WATER LINE
FILTREXX LOG SHORELINE STABILIZATION PROJECT

ADD 1.14' TO CONVERT TO
ORIGINAL Ridgefield PLAN DESIGN

0 10' 20'
SCALE: 1"= 20'

LEGEND

EXISTING	PROPOSED
Combined Sewer	
Sanitary Sewer	
Storm Sewer	
Sanitary Manhole	
Storm Manhole	
Catch Basin	
Inlet	
Down Spout	
Water Main & Services	
Valve & Vault	
Pressure Connection	
Valve & Box	
Fire Hydrant	
Structure to be Abandoned	
Power Pole	
x623.45 Spot Grade, BC/TC Pavement or Ground	
623 Contour	676
Drainage Arrow	
Neenah Frame & Lid No.	
Structure Size "d" Type	
Structure No.	1-A (48") R-1772-B
683.42 Rim Elevation 679.75 Invert Elevation	684.32 679.75

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DESIGN FIRM NO: 184005910
EXPIRES: 04-30-17

DRAWN BY: KR/SF/CJT	CHECKED: CJT
SUBMIT DATE: 7/12/16	

No.	Date	Revision
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CLIFFORD J. TOBERMAN
050567
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
16-6529

SITE PLAN

Sheet No.
C-4

CJT PLOT DATE: 6/14/17

NORTH RETENTION POND

NORMAL WATER LEVEL ELEV. 641.91±
DESIGN 100-yr. HIGH WATER LEVEL ELEV. 649.86±
PRPOSED 100-yr. HIGH WATER LEVEL ELEV. 650.00
≤ 4' POND DEPTH
OBSERVED 9/8/08 HIGH WATER LEVEL 647.55 (50-yr. Water Level)
3.18 ACRES @ NORMAL WATER LINE
FILTREXX LOG SHORELINE STABILIZATION PROJECT

ADD 1.14' TO CONVERT TO
ORIGINAL Ridgefield PLAN DESIGN

LOT 21
857 WILLOWBROOK DR.
EXIST. RESIDENCE
TF-655.88

LOT 18
881 WILLOWBROOK DR.

LOT 20
867 WILLOWBROOK DR.

LOT 19
881 WILLOWBROOK DR.
EXIST. RESIDENCE
TF-655.72

LOT 16
4 WEEPING WILLOW DR.
EXIST. RESIDENCE
TF-658.00

WEEPING WILLOW DR.

Ex. Wood Fence
Ex Metal Fence
PVC SUMP PUMP LINE
EXIST. RETAINING WALL
EXIST. 18" RCP STORM
MH SAN EXIST 650.49 633.98
N 00°07'54" W 226.54'
S 89°52'08" W 93.48'
EXIST. EDGE OF WATER
INVERT 642.81 F.E.S.
1 EA. 18"Ø CONCRETE FLARED END SECTION with TRASH GRATE
EXIST. 10" SANITARY SEWER
20' UTILITY EASEMENT
EXIST. 18"ø RCP STORM SEWER OUTLET
EXISTING 18" F.E.S.INV. 641.91
MH SAN EXIST 650.95 634.83
20"ø COTTONWOOD
22"ø LOCUST
18" STORM
Limestone Outcroppings (see landscape Plans)
5:1 SIDESLOPE
1' TO 2' SHALLOW DEPTH PLANTED SAFETY SHELF AREA
PROPOSED EDGE OF WATER (Typical)
MH STORM EXIST 650.18 642.25
48"ø WILLOW
SUMP PUMP DISCHARGE
N 22°54'42" W 203.80'
36"ø WILLOW
65"ø SWAMP WHITE OAK
12"ø ASH
N 41°30'00" W 105.00'
20' UTILITY EASEMENT
EXIST. 10" SANITARY SEWER
PROPOSED EDGE OF WATER (Typical)
INVERT 642.08 F.E.S.
1 EA. 18"Ø CONCRETE FLARED END SECTION with TRASH GRATE
1 EA. 36"Ø CONCRETE FLARED END SECTION with TRASH GRATE
20' UTILITY EASEMENT
EXIST. 36"ø STORM SEWER
INVERT 643.01 F.E.S.
GATE
6' HIGH CONSTRUCTION FENCE
N 48°30'00" W 170.54'
TREE CLUSTER
6fts clumptr10 w
PROJECT BENCH MARK: FIRE HYDRANT -UPPER FLANGE BOLT ELEVATION - 654.52
EXISTING 18" F.E.S.INV.- 642.79
EXISTING CONC. HEADWALL 18" INV.- 641.79
EVERGREEN TREE CLUSTER
5' EVERGREEN TALL
S 00°00'00" W 325.66'
10"ø EVERGREEN TREE
18" ASH
EVERGREEN TREE
12"ø EVERGREEN
EX. 18"ø STORM
REFUSE AREA
CLUMP OF 10"ø TREES
TREE CLUMP
EXISTING CONC. HEADWALL 18" INV.- 641.79
EXIST. EDGE OF WATER
ex. water edge
EXIST. 18"ø STORM
12' PUBLIC UTILITY & DRAINAGE EASEMENT
N 89°59'50" E 455.18'
Meter
Exist. Telephone Box
PROJECT BENCH MARK: CHISELED CROSS IN CONCRETE ELEVATION - 650.54
R. D. (C. C. H. D.)
W. HINTZ RD.

0 10' 20'
SCALE: 1"= 20'

LEGEND

EXISTING	PROPOSED
	Combined Sewer
	Sanitary Sewer
	Storm Sewer
Sanitary Manhole	
Storm Manhole	
Catch Basin	
Inlet	
Down Spout	
Water Main & Services	
Valve & Vault	
Pressure Connection	
Valve & Box	
Fire Hydrant	
Structure to be Abandoned	
Power Pole	
x623.45 Spot Grade, BC/TC Pavement or Ground	
623 Contour	676
Drainage Arrow	
Neenah Frame & Lid No.	
Structure Size "d" Type	
Structure No.	1-A (48") R-1772-B
683.42 Rim Elevation	684.35
679.75 Invert Elevation	679.75

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CLIFFORD J. TOBERMAN
050567
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS
EXPIRES: 11/30/17

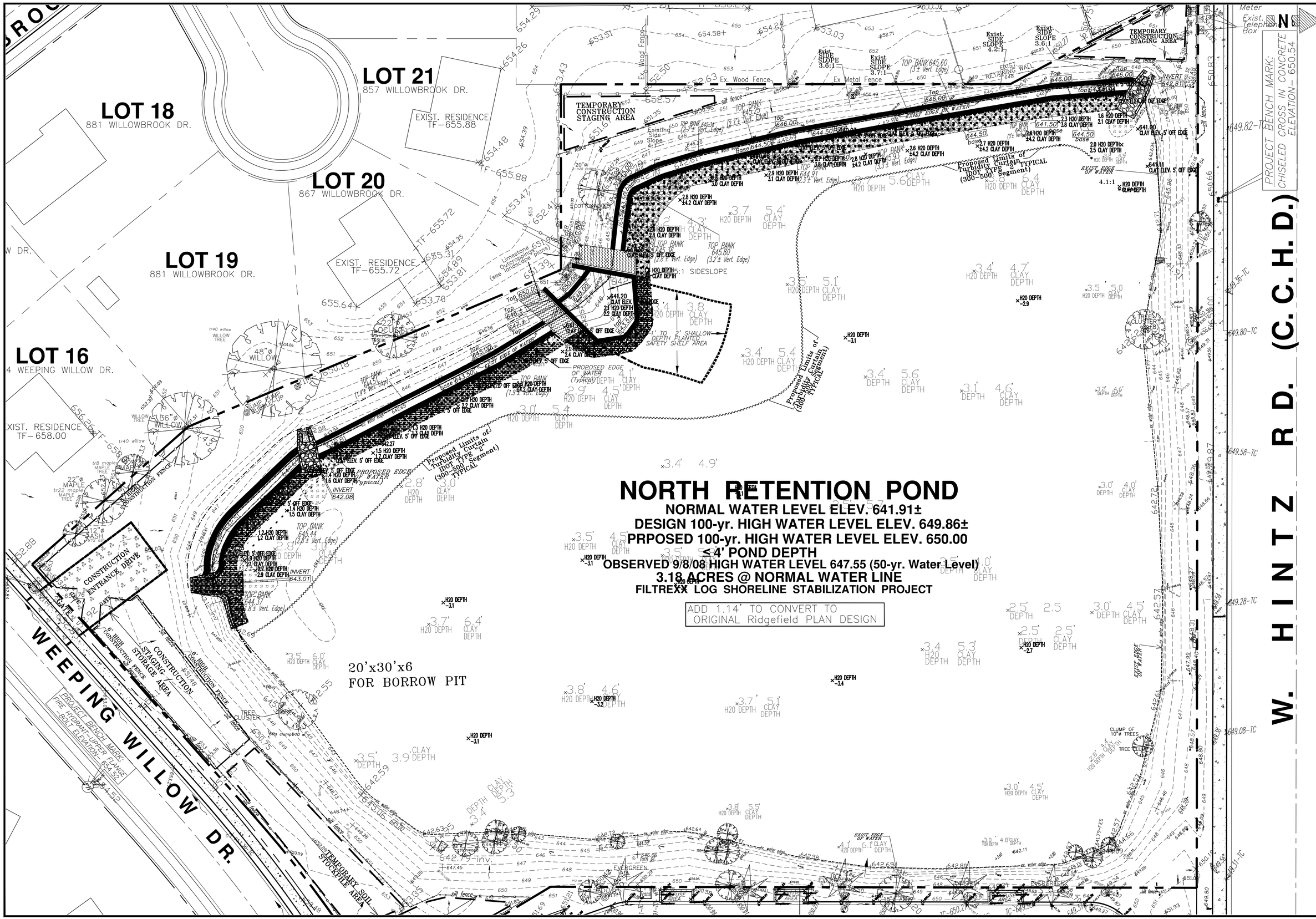
PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
16-6529

UTILITY PLAN

Sheet No.
C-5

CJT PLOT DATE: 6/14/17



NORTH RETENTION POND

NORMAL WATER LEVEL ELEV. 641.91±
DESIGN 100-yr. HIGH WATER LEVEL ELEV. 649.86±
PRPOSED 100-yr. HIGH WATER LEVEL ELEV. 650.00
≤ 4' POND DEPTH
OBSERVED 9/8/08 HIGH WATER LEVEL 647.55 (50-yr. Water Level)
3.18 ACRES @ NORMAL WATER LINE
FILTREXX LOG SHORELINE STABILIZATION PROJECT

ADD 1.14' TO CONVERT TO ORIGINAL Ridgefield PLAN DESIGN

SCALE: 1"= 20'

LEGEND

EXISTING / PROPOSED
Combined Sewer
Sanitary Sewer
Storm Sewer
Sanitary Manhole
Storm Manhole
Catch Basin
Inlet
Down Spout
Water Main & Services
Valve & Vault
Pressure Connection
Valve & Box
Fire Hydrant
Structure to be Abandoned
Power Pole
Spot Grade
Pavement or Ground
Contour
Drainage Arrow
Neenah Frame & Lid No.
Structure Size "x.d"
Type
Structure No.
Rim Elevation
Invert Elevation

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050567
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

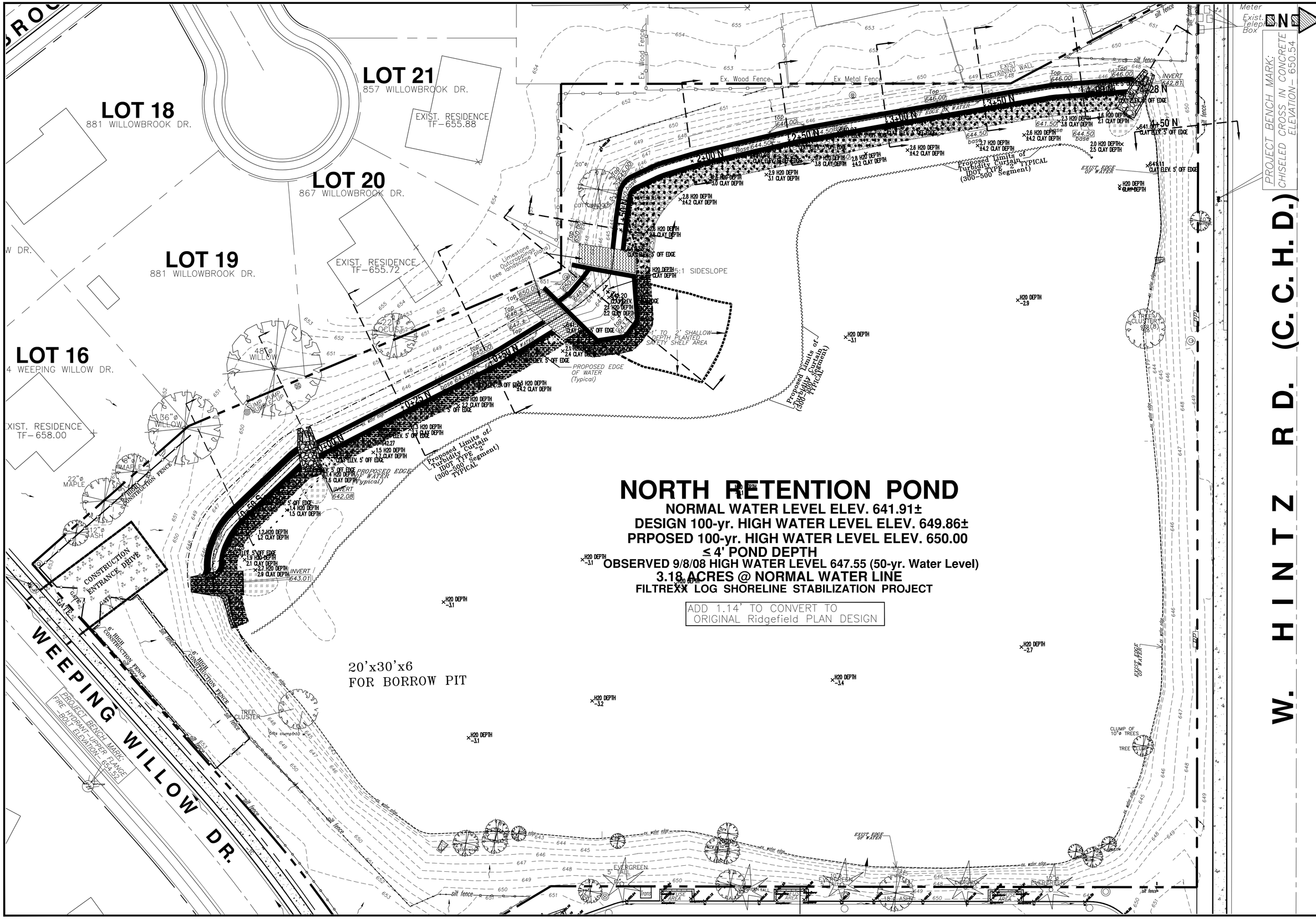
PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
16-6529

GRADING & EROSION PLAN

Sheet No.
C-6

CJT PLOT DATE: 6/14/17



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PRPOSED 100-yr. HIGH WATER LEVEL ELEV. 650.00
≤ 4' POND DEPTH
OBSERVED 9/8/08 HIGH WATER LEVEL 647.55 (50-yr. Water Level)
3.18 ACRES @ NORMAL WATER LINE
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ADD 1.14' TO CONVERT TO ORIGINAL Ridgefield PLAN DESIGN

SCALE : 1"= 20'

LEGEND

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Combined Sewer
Sanitary Sewer
Storm Sewer
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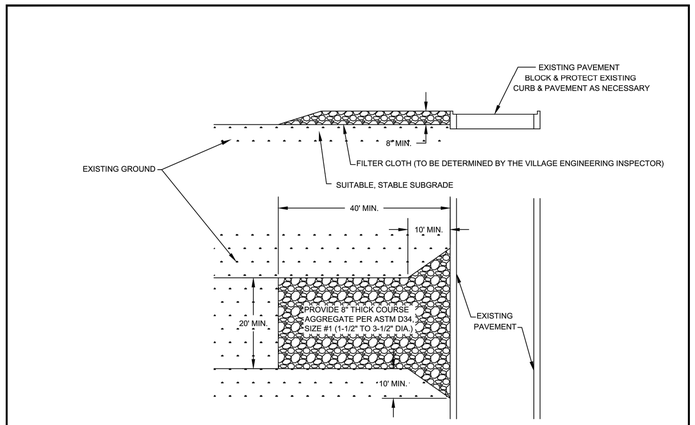
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
16-6529

GRADING SECTIONS KEY

Sheet No.
C-7



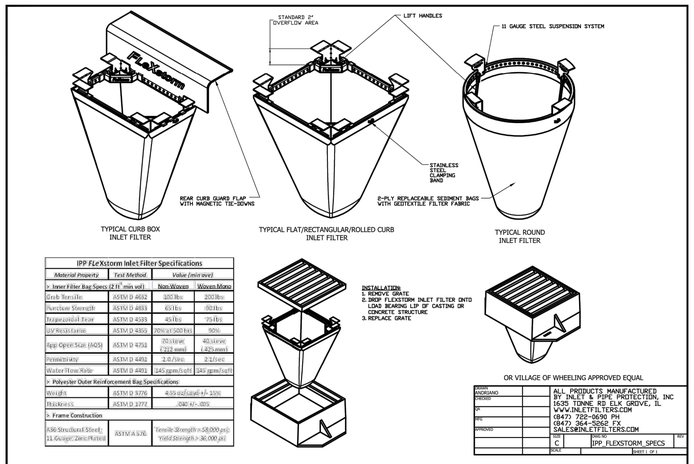
VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING
ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
WWW.WHEELINGIL.GOV

TEMPORARY CONSTRUCTION ENTRANCE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	
P.F.	08-16-99
FILE LOCATION	C.J.C. 10-01-08 AUTOCAD FILE
N:\ENGINEERING\STANDARDS\EROSION CONTROL	

REVISIONS	



IPP FLeXstorm Inlet Filter Specifications			
Material Property	*Test Method*	*Value (minimum)*	
» Inner Filter Bag Specs (2 ft² min wt)		Non-Woven	Woven Mono
Grab Tensile	ASTM D 4632	120 lbs	200 lbs
Puncture Strength	ASTM D 4833	65 lbs	80 lbs
Trapezoid Tear	ASTM D 4533	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs	90%
Apparent Opening Size (AOS)	ASTM D 4751	70 US sieve (.212 mm)	40 US sieve (.425 mm)
Permeability	ASTM D 4491	2 gal/ft/min	12 gal/ft/min
Water Flow Rate	ASTM D 4491	140 gpm/sq ft	540 gpm/sq ft
» Polyester Outer Reinforcement Bag Specifications:			
Weight	ASTM D 3776	4 oz/sq yd (cal) +/- 15%	
Thickness	ASTM D 1777	.040 +/- .005"	
» Frame Construction			
A36 Structural Steel, 11 Gauge, Zinc Plated	ASTM A 576	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

ARCHIVED		ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC	
CHECKED		1635 TONNE RD ELK GROVE, IL	
BY		WWW.INLETFILTERS.COM	
DATE		(847) 722-0690 PH	
APPROVED		(847) 364-5262 FX	
		SALES@INLETFILTERS.COM	
		SIZE C	DWG NO IPP_FLEXSTORM_SPECS
		SCALE	SHEET 1 OF 1

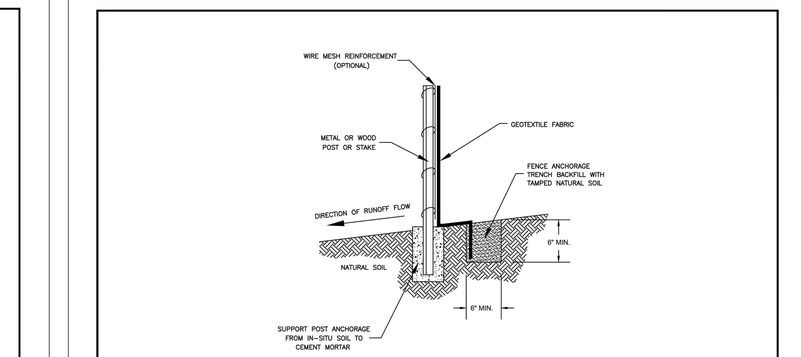
VILLAGE OF WHEELING ILLINOIS

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	
C.J.C.	01-29-08 NEW FILE
FILE LOCATION	
N:\ENGINEERING\STANDARDS\EROSION CONTROL	

REVISIONS	



NOTE: DEPENDING UPON CONFIGURATION, ATTACH FABRIC TO WIRE MESH W/HOG RINGS, STEEL POSTS W/TIE WIRES, WOOD POSTS W/NAILS.

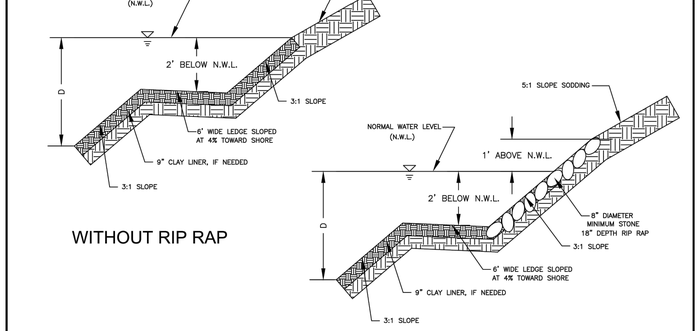
VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING
ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
WWW.WHEELINGIL.GOV

SILT FENCE INSTALLATION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	
S.W.	05-01-00 AUTOCAD FILE
FILE LOCATION	S.W. 11-07-01 AS PER COMMENTS
N:\ENGINEERING\STANDARDS\EROSION CONTROL	C.J.C. 01-29-08 AUTOCAD FILE

REVISIONS	



1. D = 10' MINIMUM, WHEN AQUATIC LIFE IS PROPOSED.
2. D = 4' MINIMUM, OTHERWISE.

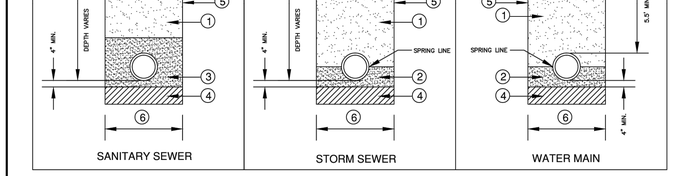
VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING
ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
WWW.WHEELINGIL.GOV

SHORE STABILIZATION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	
S.W.	05-01-00 AUTOCAD FILE
FILE LOCATION	S.W. 11-09-01 AS PER COMMENTS
N:\ENGINEERING\STANDARDS\EROSION CONTROL	C.J.C. 11-27-07 AUTOCAD FILE

REVISIONS	



NOTES:

1. BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE B OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK EXCAVATED MATERIAL MAY BE USED IN NON-PAVED AREAS
2. CA-11 OR CA-13 STONE OR OTHER APPROVED SELECT BACKFILL. TAMPED INTO PLACE TO SPRING LINE OF PIPE.
3. CA-11 OR CA-13 STONE OR OTHER APPROVED SELECT BACKFILL. TAMPED TO 12" MINIMUM ABOVE TOP OF PIPE.
4. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER
5. TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
6. MAXIMUM TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET
   = 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET

VILLAGE OF WHEELING ILLINOIS

VILLAGE OF WHEELING
ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
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TRENCH BACKFILL STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	
S.W.	6-1-00 AUTOCAD FILE
FILE LOCATION	S.W. 9-18-01 PER COMMENTS
N:\ENGINEERING\STANDARDS\GENERAL	S.W. 11-19-04 NO POLY WRAP
	C.J.C. 01-20-06 AUTOCAD FILE

REVISIONS	

HOMEOWNERS ASSOCIATION
RIDGEFIELD SUBDIVISION
PRESIDENT: DAN GEBHARDT
996 HONEYSUCKLE DR.
WHEELING, IL 60090-5732
WORK #: (847) 317-8800
HOME #: (847) 459-5078
CELL #: (847) 571-6749
EMAIL: Dan.Gebhardt@us.astellas.com
WEBSITE ADDRESS:
ridgefieldhomeowners.org
EMAIL:
ridgefieldhomeowners@comcast.net

MAREK LANDSCAPING , LLC
Attention: Mike Marek
820 East Knapp St.
Milwaukee, WI, 53202
PHONE: (414) 272-0242
FAX: (414) 272-0243
mike@mareklandscaping.com

NORMAN J. TOBERMAN & ASSOCIATES, LLC.
CONSULTING CIVIL ENGINEERS & SURVEYORS
115 S. WILKE ROAD
SUITE 301
ARLINGTON HTS., IL 60005
(847) 439-8225
FAX (847) 749-4104
mail@toberman.us
www.toberman.us
DESIGN FIRM NO:
184005910
EXPIRES: 04-30-17

DRAWN BY: KR/SF/CJT | CHECKED: CJT

SUBMIT DATE: 7/12/16

No.	Date	Revision
1	07/11/16	INITIAL SUBMIT

CLIFFORD J. TOBERMAN 050567 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

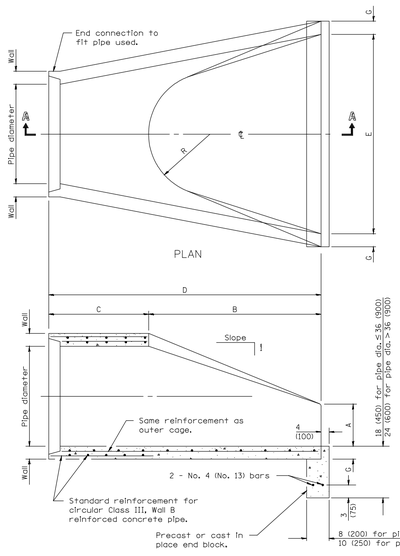
PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL

NJT Project No.
16-6529

VILLAGE OF WHEELING STANDARD DETAILS

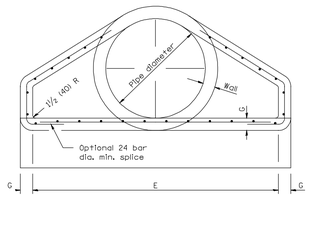
Sheet No.
C-8

PLOT DATE: 6/14/17
PLOTTED BY: CJT



PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'–0 (1.241 m)	6'–0 (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
18 (450)	990 (450)	2 (64)	9 (229)	27 (686)	5'–10" (1.168 m)	6'–1" (1.854 m)	36 (914)	2 (64)	12 (305)	1:2.4
24 (600)	1520 (690)	3 (76)	9 (241)	3'–7 (1.105 m)	30 (762)	6'–1 (1.867 m)	4'–0" (1.219 m)	3 (76)	14 (356)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'–3" (1.6 m)	34 (883)	8'–1 (2.483 m)	6'–0" (1.829 m)	4 (102)	20 (508)	1:2.5

* Radius as furnished by manufacturer



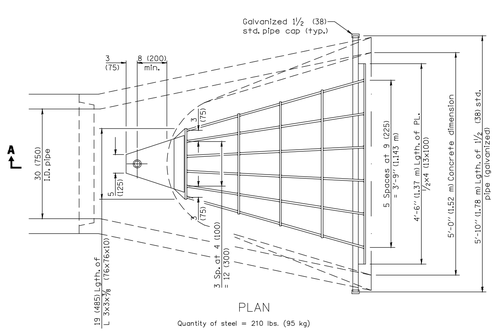
GENERAL NOTES

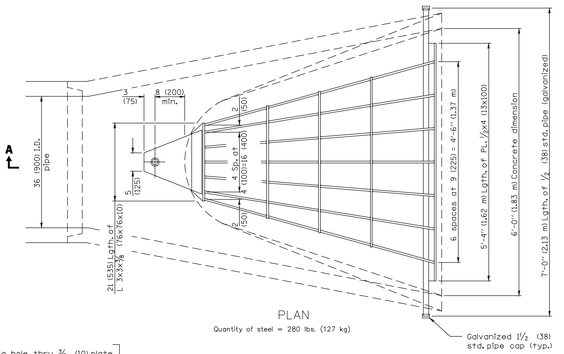
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

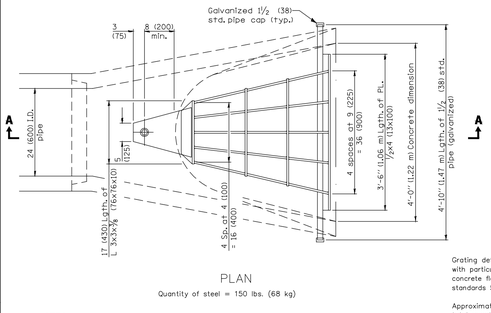
All dimensions are in inches (millimeters) unless otherwise shown.

PRECAST REINFORCED CONCRETE FLARED END SECTION

IDOT STANDARD 542301–03



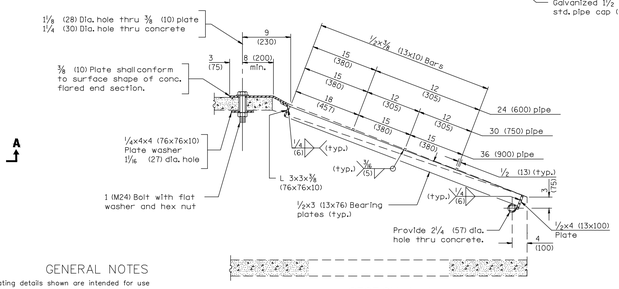




NOTES:

① GRATINGS SHALL BE REQUIRED FOR ALL FLARED END SECTIONS 15" DIAMETER AND LARGER.

② FOR SIZES NOT LISTED, THE STANDARD DRAWINGS SHALL BE INTERPOLATED AND MODIFIED AS NECESSARY.



GENERAL NOTES

Grating details shown are intended for use with particular sizes of precast reinforced concrete flared end sections as shown on standards 542301 and 542306.

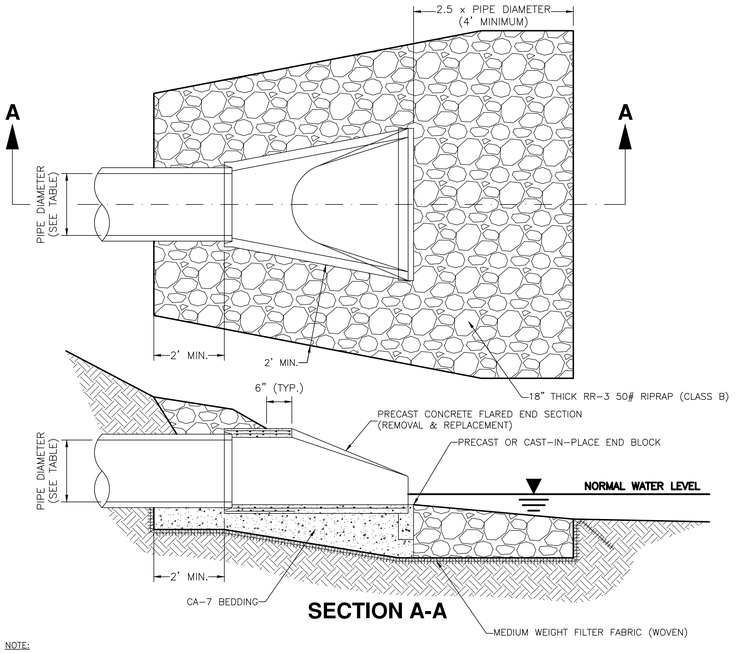
Approximate quantity of steel shown includes total quantity of grating, bolts, nuts, washers and steel pipe.

Holes in the precast concrete flared end sections shall be cored to the diameters noted. If cone–out on the other end of the hole occurs, the hole shall be filled with grout to correct the diameter of the hole.

All dimensions are in inches (millimeters) unless otherwise shown.

GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600 mm) THRU 36" (1350 mm) PIPE)

IDOT STANDARD 542311–03



NOTE:

1. PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M–170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
2. PRECAST CONCRETE FLARED END SECTION FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.
3. THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ART. 502.10 OF THE STANDARD SPECIFICATIONS. THIS COST SHALL BE INCIDENTAL TO EACH END SECTION.
4. RIP RAP SHALL CONFORM TO SECT. 281 OF THE STANDARD SPECIFICATIONS EXCEPT ONLY 8" NOMINAL DIAMETER RR–3 50# STONE WILL BE ALLOWED. INSTALL FABRIC UNDER STONE.
5. STANDARD IDOT GALVANIZED GRATE REQUIRED FOR 15" DIAMETER AND LARGER (IDOT STANDARD 542311–03).

FLARED END SECTION WITH RIPRAP OUTLET PROTECTION

(not to scale)

SECTION 02205 - RIPRAP

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for furnishing and placing a protective covering of stone, as shown on the Drawings, or as directed by the ENGINEER.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Stone for this WORK shall be hard angular quarry stones and have a percentage of wear of not more than 50 at 500 revolutions as determined by ASTM C 535. The least dimension of any piece of stone shall be not less than 1/4 its greatest dimension. Rounded boulders or cobbles shall not be used on slopes steeper than 2:1. Stones shall meet the following gradation requirement for the Class specified:

Class I
No more than 10% of the stones by total weight shall weigh more than 50 pounds per piece, and no more than 50% of the stones by total weight shall weigh less than 25 pounds per piece.

Class II
No more than ten percent of the stones by total weight shall weigh more than 400 pounds per piece, and no more than 15% of the stones by total weight shall weigh less than 25 pounds per piece. The stones shall be evenly graded and a minimum of 50% by weight of the stones shall weigh 200 pounds or more per piece.

Class III
No more than 10% of the stones by total weight shall weigh more than 1,400 pounds per piece, and no more than 15% of the stones by total weight shall weigh less than 25 pounds per piece. The stones shall be evenly graded and a minimum of 50% by weight of the stones shall weigh 700 pounds or more per piece.

B. Filter cloth shall conform to the requirements of Section 02714 - Filter Cloth.

PART 3 - EXECUTION

3.1 CONSTRUCTION

A. Foundation or toe trenches and other necessary excavation shall be completed and approved by the ENGINEER before the placing of riprap is begun. Slopes to be protected with riprap shall be free of brush, trees, stumps and other objectionable material and shall be dressed to a reasonably smooth surface.

B. Filter cloth shall then be placed as provided for in Section 02714 - Filter Cloth, Article 3.1.

SECTION 02205 - RIPRAP

C. The stones shall be handled or placed with an excavator as to secure a stone mass of the thickness, height and length shown on the Drawings, or as staked, with a minimum of voids.

D. Undesirable voids shall be filled with small stones or spalls. The rock shall be manipulated sufficiently by means of a bulldozer, excavator, rock tongs, or other suitable equipment to secure a reasonably regular surface and mass stability.

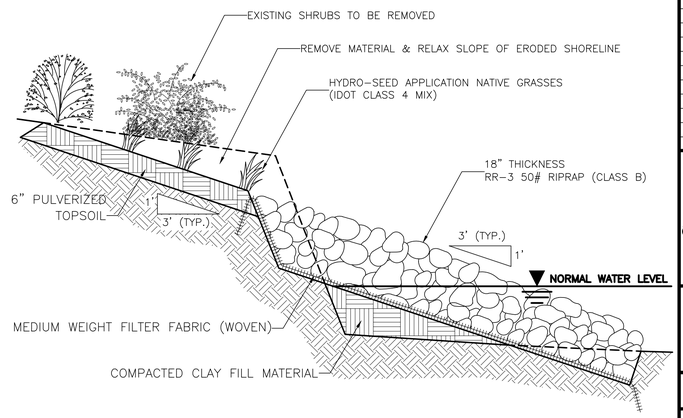
E. Riprap protection shall be placed to its full course thickness at one operation and in such manner as to avoid damaging the filter cloth or displacing the underlying material. Placing of riprap protection in layers or by dumping into chutes or by similar methods likely to cause segregation will not be permitted.

F. All riprap shall be so placed and distributed that there will be no large accumulation or area composed mainly of either the larger or small sizes of stone.

G. Unless otherwise authorized, the riprap protection shall be placed in conjunction with the construction of the embankment with only sufficient lag in construction of the riprap protection as may be necessary to place filter cloth and to prevent mixture of embankment and riprap material.

H. The CONTRACTOR shall provide a level, compact area of sufficient size to dump and sort typical loads of riprap at an approved location; and shall dump loads, as specified, in this area; and shall assist the ENGINEER as needed to sort and measure the stones for the purpose of determining if the riprap is within Specifications. Mechanical equipment as needed to assist in this sorting shall be provided by the CONTRACTOR at no additional cost.

END OF SECTION



NOTE:

RIP RAP SHALL CONFORM TO SECT. 281 OF THE STANDARD SPECIFICATIONS EXCEPT ONLY 8" NOMINAL DIAMETER RR–3 50# STONE WILL BE ALLOWED. INSTALL FABRIC UNDER STONE.

TYPICAL RIPRAP BANK STABILIZATION

(not to scale)

HOMEOWNERS ASSOCIATION
RIDGEFIELD SUBDIVISION
PRESIDENT: DAN GERHARDT
996 HONEYSUCKLE DR.
WHEELING, IL 60090–5732
WORK #: (847) 317–8800
HOME #: (847) 459–5078
CELL #: (847) 571–6749
EMAIL: Dan.Gebhardt@us.astellas.com
WEBSITE ADDRESS:
ridgefieldhomeowners.org
EMAIL:
ridgefieldhomeowners@comcast.net

MAREK LANDSCAPING , LLC
Attention: Mike Marek
820 East Knapp St.
Milwaukee, WI, 53202
PHONE: (414) 272-0242
FAX: (414) 272-0243
mike@mareklandscaping.com

NORMAN J. TOBERMAN & ASSOCIATES, LLC.
CONSULTING CIVIL ENGINEERS & SURVEYORS
115 S. WILKE ROAD
SUITE 301
ARLINGTON HTS., IL 60005
(847) 439-8225
FAX (847) 749-4104
mail@toberman.us
www.toberman.us
DESIGN FIRM NO:
184005910
EXPIRES: 04–30–17

DRAWN BY:KR/SF/CJT	CHECKED: CJT
SUBMIT DATE: 7/12/16	

No.	Date	Revision
1	07/11/16	INITIAL SUBMIT

NORMAN J. TOBERMAN 050567 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXPIRES: 11/30/17

PROPOSED POND BANK STABILIZATION IMPROVEMENTS
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
16-6529

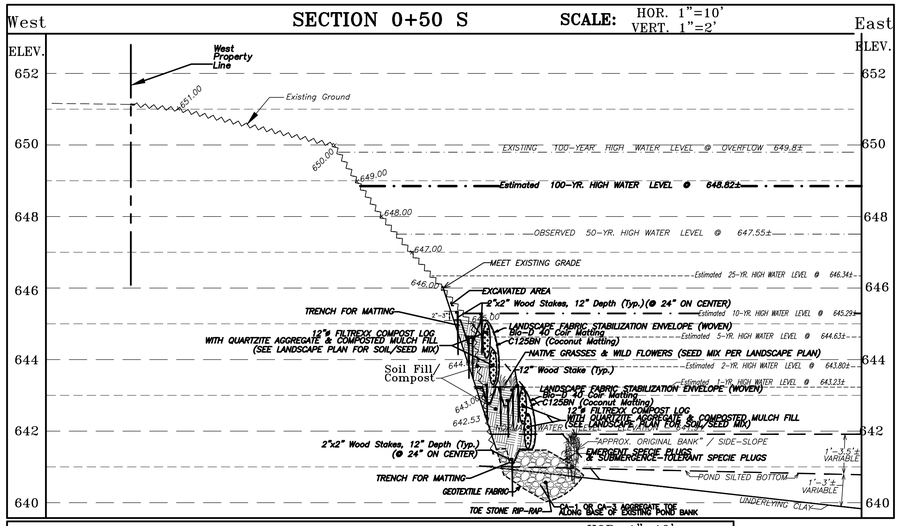
DETAIL SHEET

Sheet No.
C-9

PLOT DATE: 6/14/16
PLOTTED BY: CJT

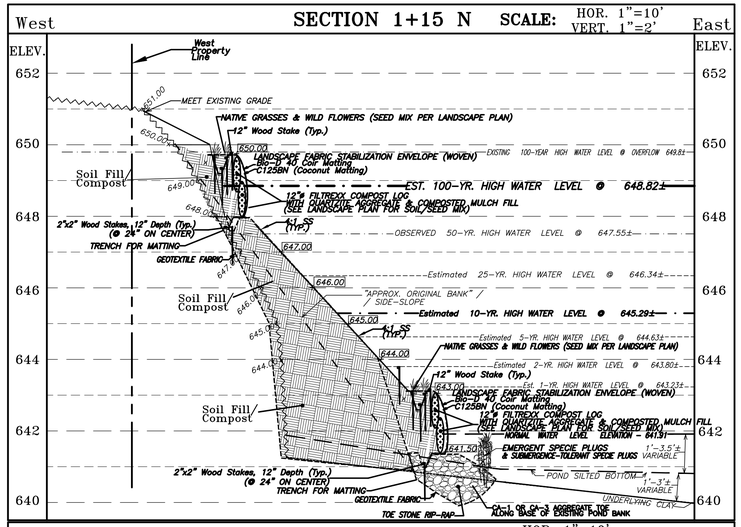
SECTION 0+50 S

SCALE: HOR. 1"=10' VERT. 1"=2'



SECTION 1+15 N

SCALE: HOR. 1"=10' VERT. 1"=2'

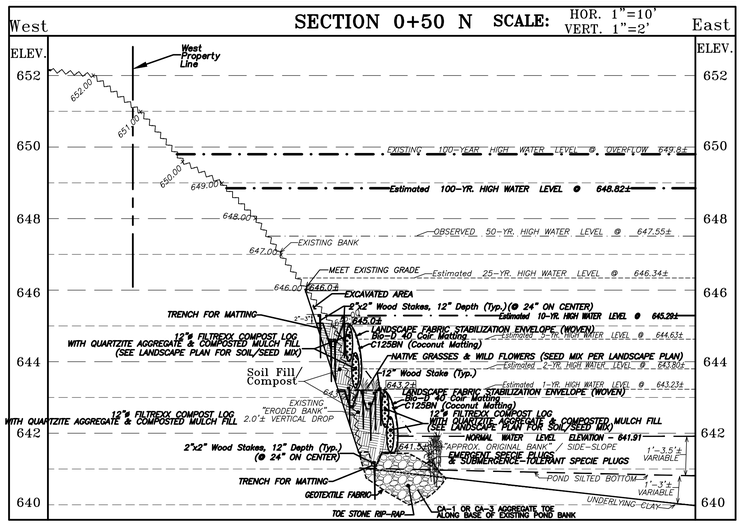


SECTION 0+00 N

SCALE: HOR. 1"=10' VERT. 1"=2'

SECTION 0+50 N

SCALE: HOR. 1"=10' VERT. 1"=2'

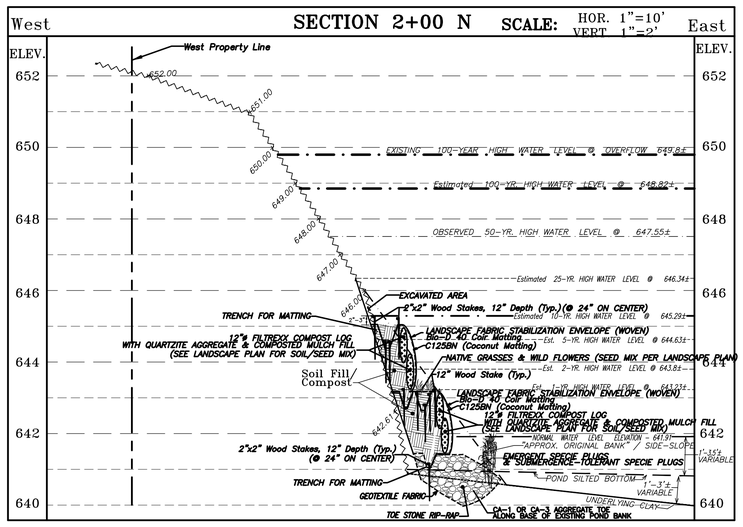


SECTION 1+50 N

SCALE: HOR. 1"=10' VERT. 1"=2'

SECTION 2+00 N

SCALE: HOR. 1"=10' VERT. 1"=2'



0 10' 20'

N

SCALE : 1"= 20'

LEGEND

EXISTING / PROPOSED

- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- Sanitary Manhole
- Storm Manhole
- Catch Basin
- Inlet
- Down Spout
- Water Main & Services
- Valve & Vault
- Pressure Connection
- Valve & Box
- Fire Hydrant
- Structure to be Abandoned
- Power Pole
- WETLAND Perimeter or Boundary
- Contour
- Drainage Arrow
- Neenah Frame & Lid No.
- Structure Size "id" type
- Structure No. — I-A (48") R-1772-A
- Rim Elevation
- Invert Elevation

LANDSCAPE DESIGNER
ATTENTION: MIKE MAREK
MAREK LANDSCAPING, LLC
870 E. KNAPP STREET
MILWAUKEE, WI. 53202
PHONE: (414) 272-0242
FAX: (414) 272-0243
mike@mareklandscaping.com

SURVEYOR
DAVE BYCROFT PLS
NORMAN J. TOBERMAN & ASSOCIATES, LLC
115 S. WILKE RD., SUITE 301
ARLINGTON HTS., IL 60005
PHONE: (224) 558-8256

HOMEOWNERS ASSOCIATION
RIDGEFIELD SUBDIVISION
PRESIDENT: DAN GEBHARDT
996 HONEYSUCKLE DR.
WHEELING, IL. 60090-5732
WORK #: (847) 317-8800
HOME #: (847) 459-5078
CELL #: (847) 571-6749
EMAIL: Dan.Gebhardt@us.castellas.com
WEBSITE ADDRESS:
ridgefieldhomeowners.org
EMAIL:
Ridgefieldhomeowners@comcast.net

NORMAN J. TOBERMAN & ASSOCIATES, LLC
CONSULTING CIVIL ENGINEERS & SURVEYORS
115 S. WILKE ROAD.
SUITE 301
ARLINGTON HTS., IL 60005
(847) 439-8225
or (847) 749-1340
FAX (847) 749-4104
mail@toberman.us
www.toberman.us

DESIGN FIRM NO: 184005910
EXPIRES: 04-30-17

DRAWN BY: RV/DW | CHECKED: CJT

SUBMIT DATE: 6/28/16

No.	Date	Revision

PROPOSED SHORELINE STABILIZATION & POND / BANK IMPROVEMENTS

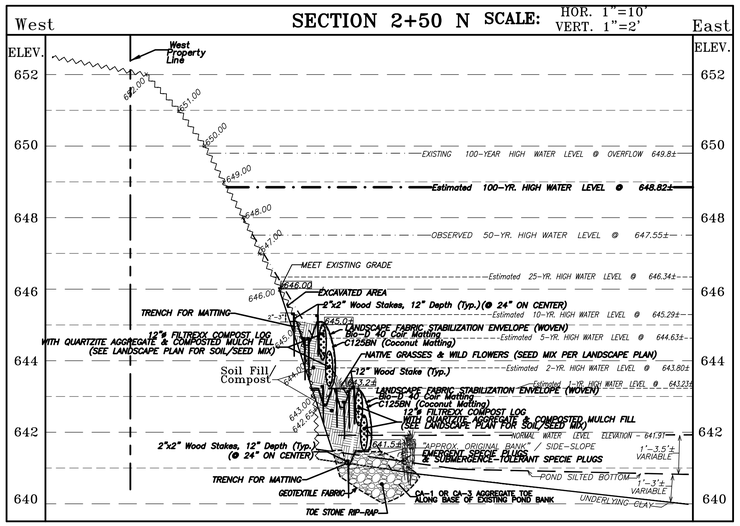
RIDGEFIELD SUBDIVISION
WHEELING, IL.

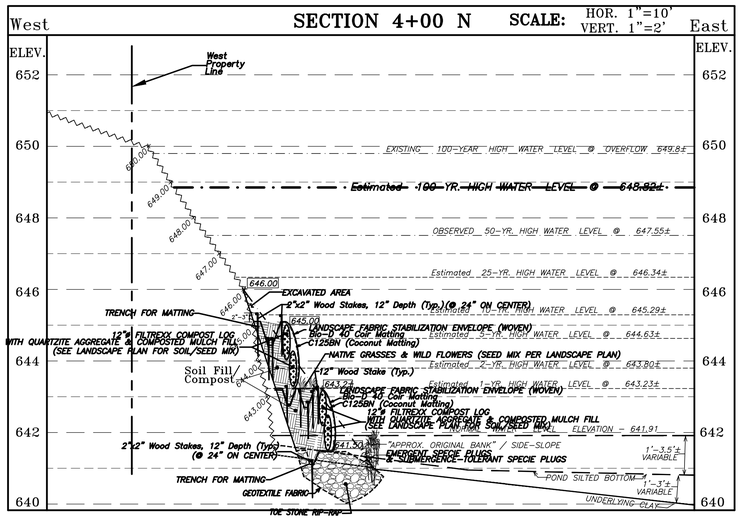
NJT Project No.
11-5930

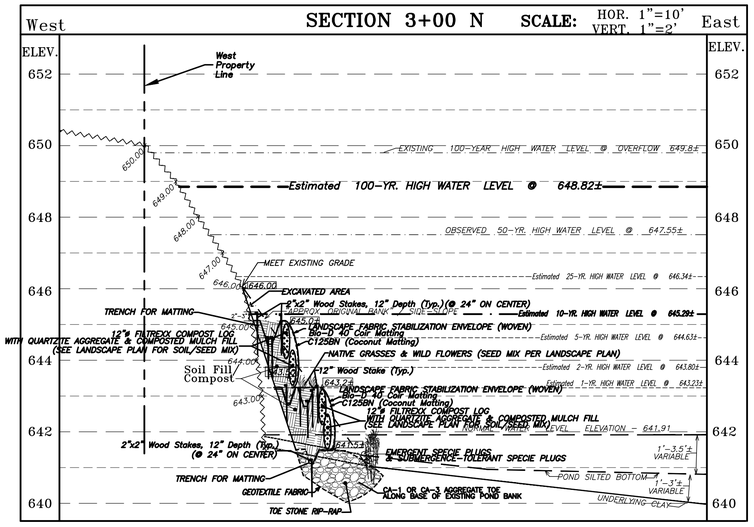
NORTH POND X-SECTION LOCATION

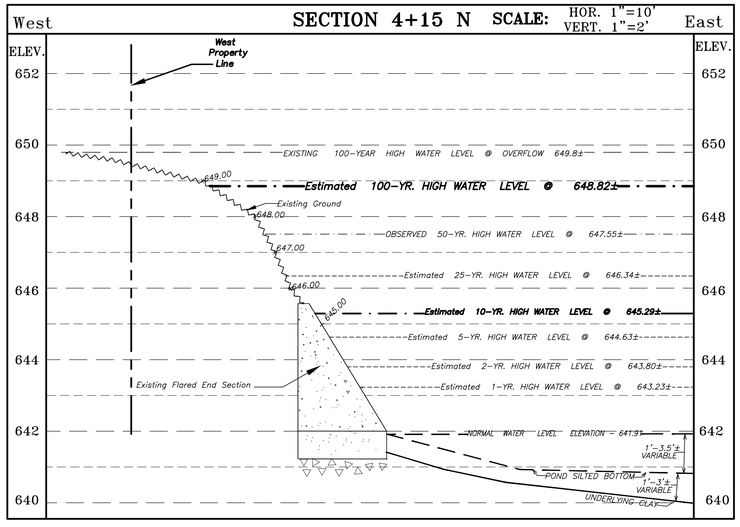
Sheet No.
X-1 N

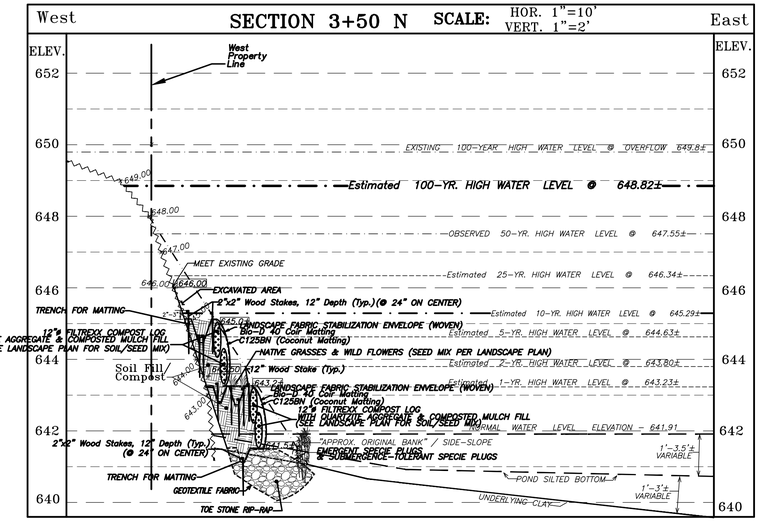
PLOT DATE: 6/24/16-CJT











0 10' 20'

N

SCALE : 1"= 20'

LEGEND

EXISTING	PROPOSED
Combined Sewer	
Sanitary Sewer	
Storm Sewer	
Sanitary Manhole	
Storm Manhole	
Catch Basin	
Inlet	
Down Spout	
Water Main & Services	
Valve & Vault	
Pressure Connection	
Valve & Box	
Fire Hydrant	
Structure to be Abandoned	
Power Pole	
643.45	647.00 Proposed or Grand
643 Contour	670
Drainage Arrow	
Neenah Frame & Lid No.	
Structure Size 54" Type	
Structure No.	1-A (47) R-1772-B
(644.82) Top Of Grate Elevation	644.82
(639.82) Invert Elevation	639.19

LANDSCAPE DESIGNER
ATTENTION: MIKE MAREK
MAREK LANDSCAPING, LLC
820 E. KNAPP STREET
MILWAUKEE, WI. 53202
PHONE: (414) 272-0242
FAX: (414) 272-0243
mike@marekslandscaping.com

SURVEYOR
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NORMAN J. TOBERMAN & ASSOCIATES, LLC
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WHEELING, IL. 60090-5732
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HOME #: (847) 459-5078
CELL #: (847) 571-6749
EMAIL: Dan.Gebhardt@us.ostelles.com
WEBSITE ADDRESS:
ridgefieldhomeowners.org
EMAIL:
ridgefieldhomeowners@comcast.net

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CONSULTING CIVIL ENGINEERS & SURVEYORS
115 S. WILKE ROAD.
SUITE 301
ARLINGTON HTS., IL 60005
(847) 439-8225
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FAX (847) 749-4104
mail@toberman.us
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SUBMIT DATE: 6/28/16

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PROPOSED SHORELINE STABILIZATION & POND / BANK IMPROVEMENTS

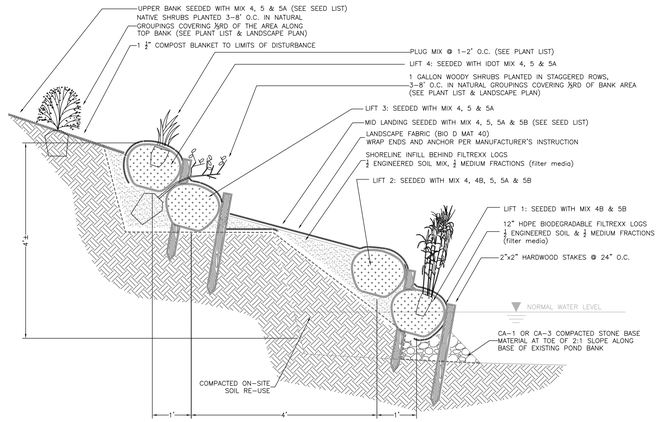
RIDGEFIELD SUBDIVISION
WHEELING, IL.

NJT Project No.
11-5930

NORTH POND X-SECTION LOCATION

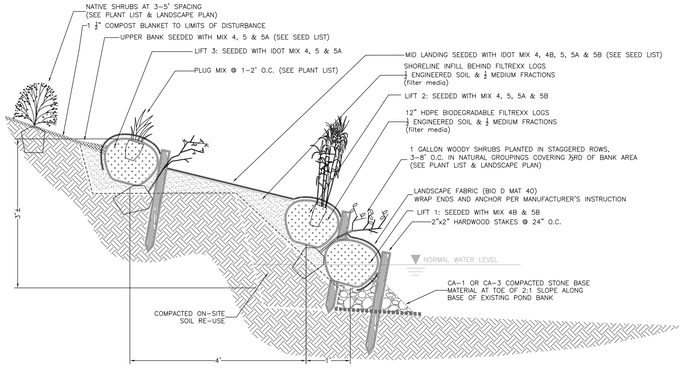
Sheet No.
X-2 N

PLOT DATE: 6/24/16-CJT



1 **4-TIER FILTREXX LOG SHORELINE STABILIZATION**

(not to scale)



2 **3-TIER FILTREXX LOG SHORELINE STABILIZATION**

(not to scale)

3 **2-TIER FILTREXX LOG SHORELINE STABILIZATION**

(not to scale)

4 **1-TIER FILTREXX LOG SHORELINE STABILIZATION**

(not to scale)

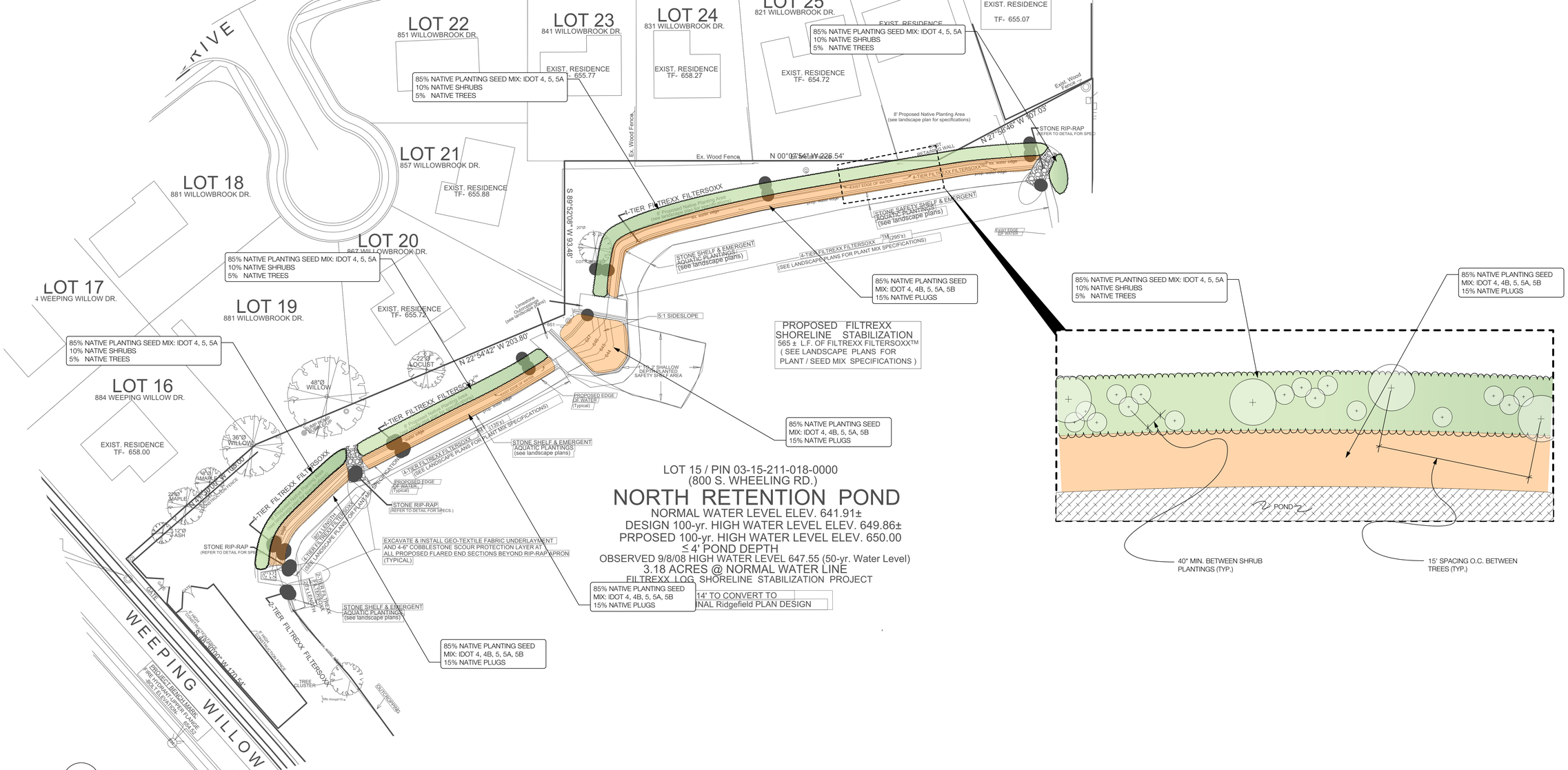
Seeding instructions				
Location	Seed mixes	% of Seed Mixes	Seed rates	Plug rates
lift 1	4b & 5b	70% 4b, 30% 5b	3 oz/100 LF	1-2' OC
lift 2	4, 4b, 5, 5a & 5b	35% 4, 35% 4b, 10% 5, 7% 5a, 13% 5b	3 oz/100 LF	1-2' OC
lift 3	4, 5 & 5a	70% 4, 15% 5, 15% 5a	3 oz/100 LF	1-2' OC
lift 4	4, 5 & 5a	70% 4, 15% 5, 15% 5a	3 oz/100 LF	1-2' OC
Safety shelf	NA	NA	NA	3' OC
Stone shelf	NA	NA	NA	2' OC
Land mass	NA	NA	NA	1-2' OC
Hintz Road	4, 5 & 5a	70% 4, 15% 5, 15% 5a	3 oz/100 LF	1-2' OC
South pond, southwest ditch	NA	NA	NA	2' OC
Upper bank	4, 5 & 5a	70% 4, 15% 5, 15% 5a	30#/acre	NA
Middle landing	4, 5, 5a & 5b	70% 4, 10% 5, 7% 5a, 13% 5b	30#/acre	NA
Alt A: Outfall water treatment	4b & 5b	70% 4b, 30% 5b	30#/acre	1' OC
Alt B: Wetland peninsula	4b & 5b	70% 4b, 30% 5b	30#/acre	1' OC
***Special Cover Crop will be applied to all seeded areas			40#/acre	NA

5 SEEDING SCEDULE

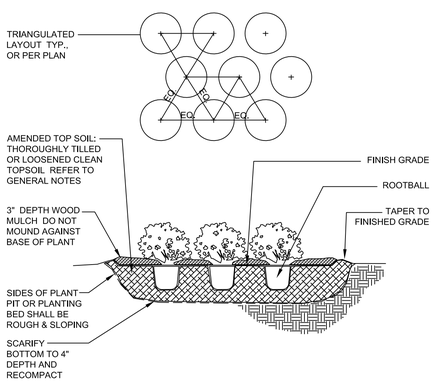
%	plant (plugs)	quantity
8.90%	softstem bullrush	590
8.90%	river bullrush	590
8.70%	arrowhead	577
8.90%	sweet flag	590
8.90%	common bullreed	590
8.10%	pickerel reed	537
8.10%	blue flag iris	537
11.50%	water plantain	762
11.50%	brown fox sedge	762
3.20%	blue joint grass	212
3.80%	prairie cord grass	252
2.70%	green coneflower	179
3.30%	blue vervain	219
3.50%	switchgrass	232
	total	6630

size	plant	qty
1g	cornus sericia	31
1g	cornus amomum	30
1g	betula pumila	38
1g	alnus incana rugosa	54
1g	physocarpus opulifolius	45
1g	cephalanthus occidentalis	34
1g	salix	36
1g	amorpha fruticosa	38
1g	viburnum rafinesquianum	30
1g	spirea tomentosum	48
#5	populus tremuloides	50
#5	larix laricinia	28
#5	thuja occidentalis	48

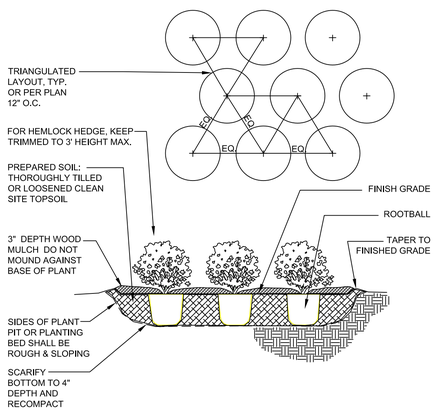
6 PLANTING SPECIFICATION



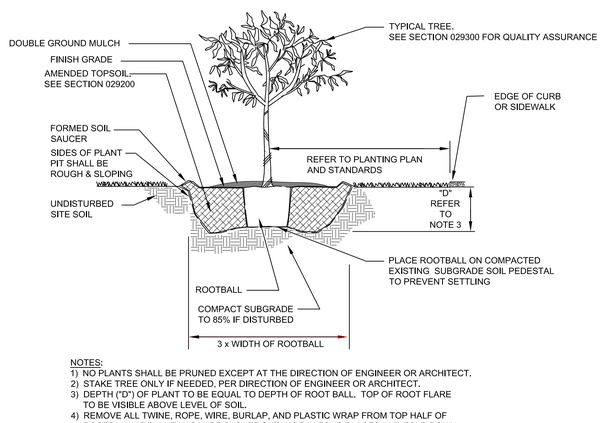
1 LANDSCAPE PLAN DIAGRAM
Scale: 1" = 30 ft



2 PERENNIAL PLANTING
NTS



3 SHRUB PLANTING
NTS



NOTES:
1) NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF ENGINEER OR ARCHITECT.
2) STAKE TREE ONLY IF NEEDED, PER DIRECTION OF ENGINEER OR ARCHITECT.
3) DEPTH ("D") OF PLANT TO BE EQUAL TO DEPTH OF ROOT BALL. TOP OF ROOT FLARE TO BE VISIBLE ABOVE LEVEL OF SOIL.
4) REMOVE ALL TWINE, ROPE, WIRE, BURLAP, AND PLASTIC WRAP FROM TOP HALF OF ROOTBALL. IF PLANT HAS WIRE BASKET CUT WIRE IN FOUR PLACES AND FOLD DOWN 8" INTO PLANTING HOLE.
5) SEE SECTION 029200 FOR PLANTING IN EXCAVATED BEDS AT SOUTHERN PERIMETER OF PARKING LOT.

4 TREE PLANTING
NTS

BERGER
1205 Garland Rd Wauconda IL 60084
847.526.5457 bergercontractors.com

October 28th, 2025

Mr. Chris Allen
Baxter & Woodman
8678 Ridgefield Rd
Crystal Lake, Illinois 60012
Project: S Dunhurst Stormwater Improvements Phase 1

RE: Submittal 09.2 – As-Builts Rev 2

Dear Mr. Allen,

For your review and approval, please see the attached Submittal 09.2 – As-Built Rev 2 Drawings regarding the above referenced project.

Should you have questions regarding this information, please feel free to contact me.



Jake Evans
Project Manager
BERGER CONTRACTORS, INC.

ACCESS GATE, 10' WIDE DOUBLE SWING (LOCATION APPROXIMATE, RELOCATE AS NEEDED)

1

ALUMINUM FENCE, 4'

CONTRACTOR TO TERMINATE EXISTING 6" DRAINAGE PIPE TO DAYLIGHT AND ADD RIPRAP APRON
1 SQ YD of STONE RIPRAP, CLASS A1

T/W=650.0'

56 SQ YD of STONE RIPRAP, CLASS A4 and FILTER FABRIC
12" THICKNESS

1

127.9'

PROPOSED RETAINING WALL (SEE DETAIL SHEET 20)

STEP 2
T/W=650.0'

36.7'

STEP 1
T/W=649.0'

101.3'

T/W=648.0'

53.6'

SEE SHEET 12 FOR BASIN CROSS SECTION

SEE SHEET 12 FOR BASIN PROFILE

P-ST-P-05E
~~18 L.F.~~ of 12" STORM SEWER @ ~~1.22%~~ @ 1.71%
14 L.F

PR-MH-05E
CATCH BASIN TYPE A, 4' DIA.
TYPE 1 FRAME, OL
STA. ~~11+31.85, 26.35' R~~
11+59.04, 33.33' R
RIM ~~648.54~~ 648.18
INV ~~646.05~~ 12"W
645.24

P-ST-P-02
219 L.F. of 24" STORM SEWER @ ~~0.10%~~ @ 0.06%

PR-MH-02

P-ST-P-01
~~9 L.F.~~ of 24" STORM SEWER @ ~~0.14%~~ @ 0.27%
11 L.F

PR-MH-01

INLINE CHECK VALVE

P-ST-P-04E

PR-FES-4E

ACCESS GATE, 10' WIDE
(DOUBLE SWING)

PR-MH-05

P-ST-P-05

P-ST-P-04

PR-MH-04

P-ST-P-03
26 L.F. of 24" STORM SEWER @ ~~0.08%~~ @ 0.11 %

PR-MH-0
RESTRICTO

225 SQ YD of STONE RIPRAP, CLASS A7
STONE RIPRAP, CLASS A2
FILTER FABRIC
SEE SHEET 20 FOR DETAILS AND DIMENSIONS

PR-MH-05
STORM MANHOLE, 10' DIA.
TYPE 1 FRAME, CL
STA. 11+49.12, 23.24' R
RIM ~~648.42~~ 648.33
INV ~~639.94~~ 72"N639.90
INV ~~640.51~~ 72"W640.50
641.85 INV ~~641.54~~ 12"SW
INV ~~645.84~~ 12"E
645.00 12" NW

PR-MH-05S
CATCH BASIN TYPE A, 4' DIA.
TYPE 1 FRAME, OL
STA. ~~11+59.97, 12.23' R~~ 11+60.87,12.39' R
RIM ~~648.16~~ 648.18
INV ~~641.69~~ 12"NE641.90
INV ~~641.69~~ 12"S
641.90

P-ST-P-05S
~~15 L.F.~~ of 12" STORM SEWER @ ~~1.00%~~ @ 0.31%
16 L.F

EAST MERLE LANE

NORTH GREEN DRIVE

#475

#465

457

449

439

431

RECORD DRAWINGS
DATED:
10 - 27 - 2025
RECORD DRAWINGS PREPARED BY:
R.E. ALLEN AND ASSOCIATES, LTD.
PROFESSIONAL LAND SURVEYORS
1015 N. CORPORATE CIRCLE, SUITE C
GRAYSLAKE, ILLINOIS 60030
PHONE: 847-223-0914 FAX: 847-223-0980

P:\WHELV\210838-SOUTH DUNHURST STORM\CADD\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-DESIGN_SHEETS.DWG POND
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BAXTER & WOODMAN Consulting Engineers

CONSULTANTS

REVISED – 1 – GRADING PER DRAINAGE
REVISED – 2 – REVISION PER 12" SERVICE
REVISED –
REVISED –

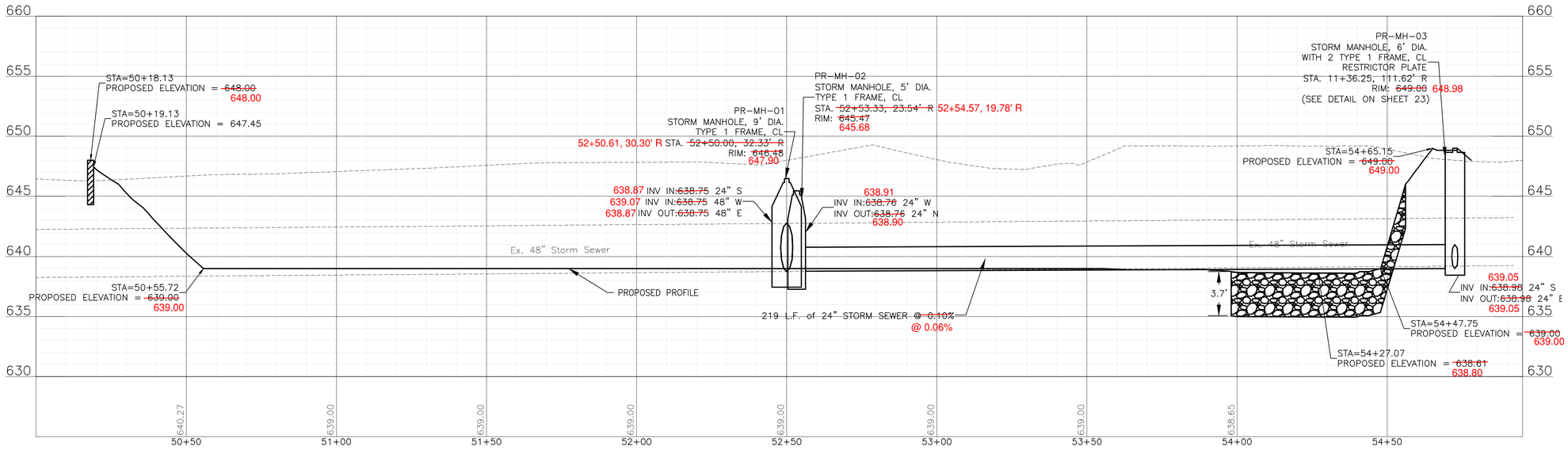
VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 1

PROPOSED BASIN PLAN

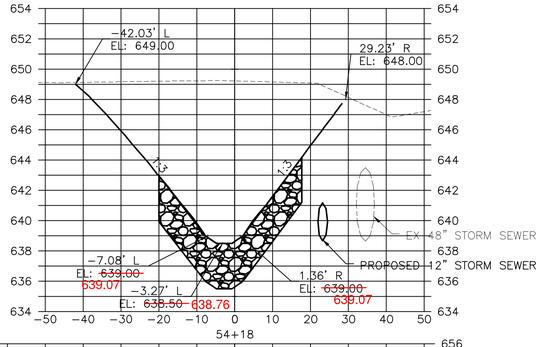
SCALE: 1" = 20'
PROJECT NO: 210838

DESIGNED – ML
DRAWN – JJS
CHECKED – MD
DATE – 07/31/2024

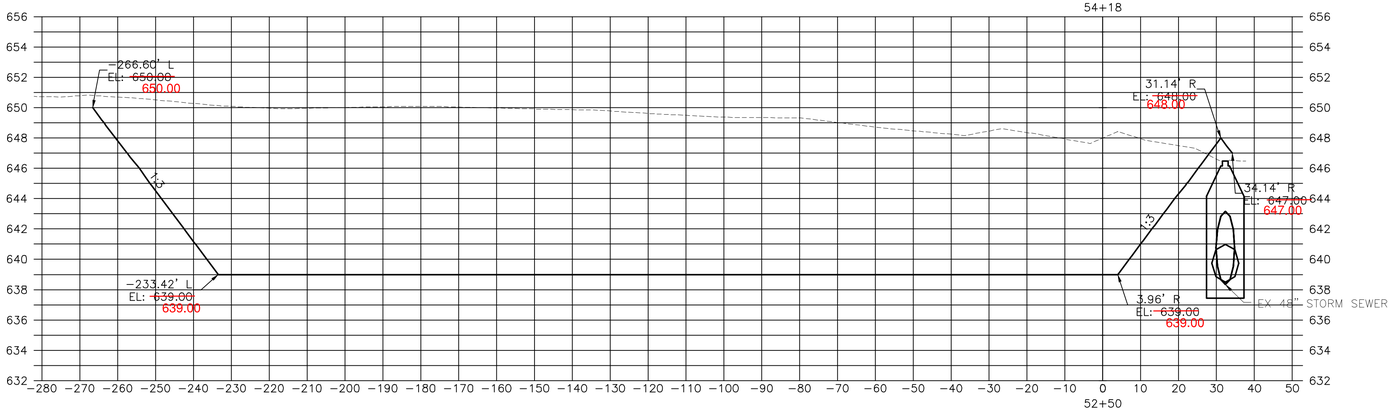
TOTAL SHEETS: 23
SHEET NO.: 11



BASIN PROFILE VIEW



BASIN CROSS SECTION VIEWS



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DATED:
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GRAYSLAKE, ILLINOIS 60030
PHONE: 847-223-0914 FAX: 847-223-0980

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	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 1

PROFILE AND CROSS SECTION

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		23	12
CHECKED – MD			
DATE – 04/22/2024			

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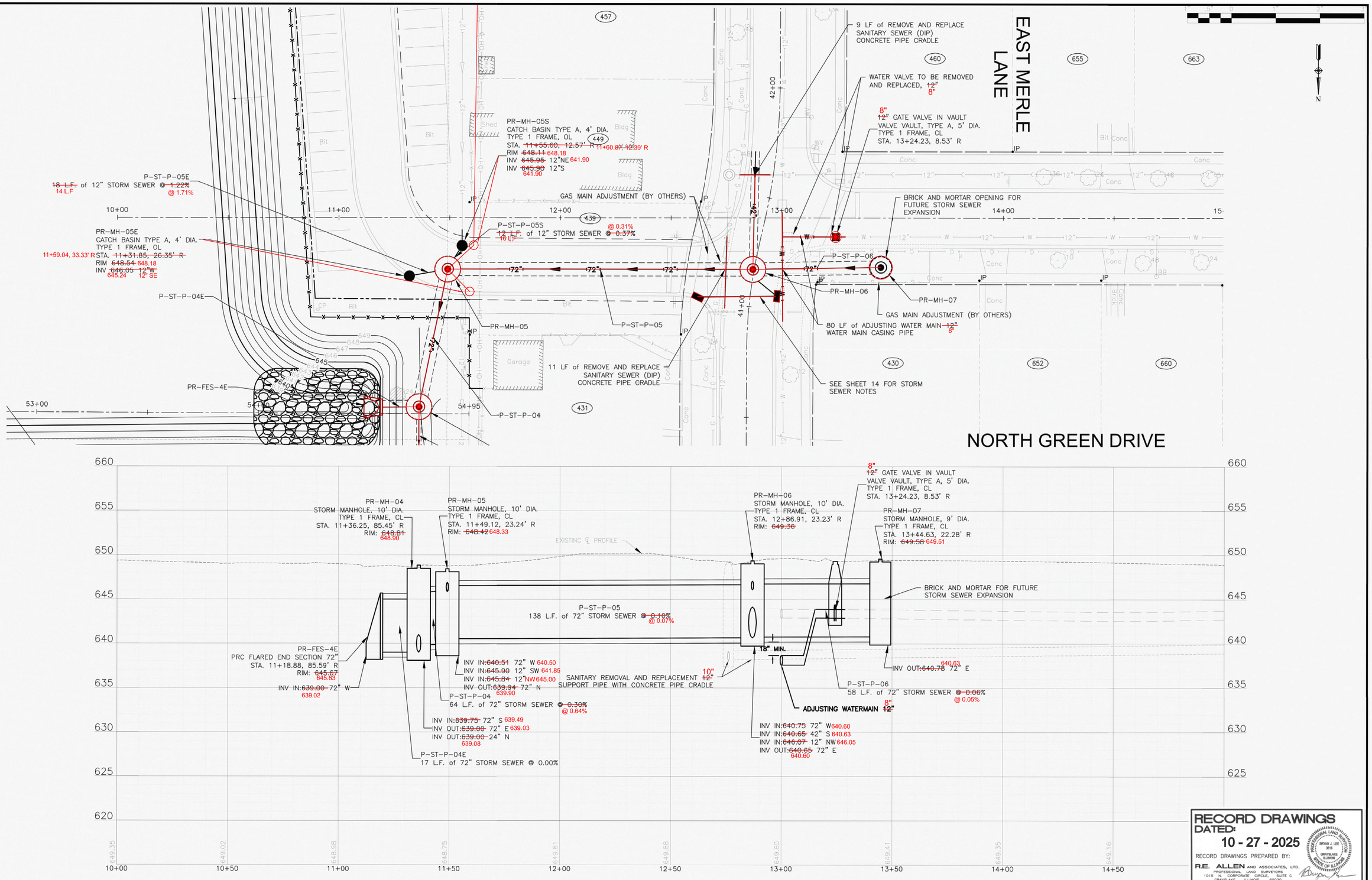

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DATED:
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RECORD DRAWINGS PREPARED BY:
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PHONE: 847-223-0914 FAX: 847-223-0980

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	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 1

NORTH GREEN DRIVE STA 10+00 TO STA 15+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS			
CHECKED – MD		23	13
DATE – 05/28/2024			

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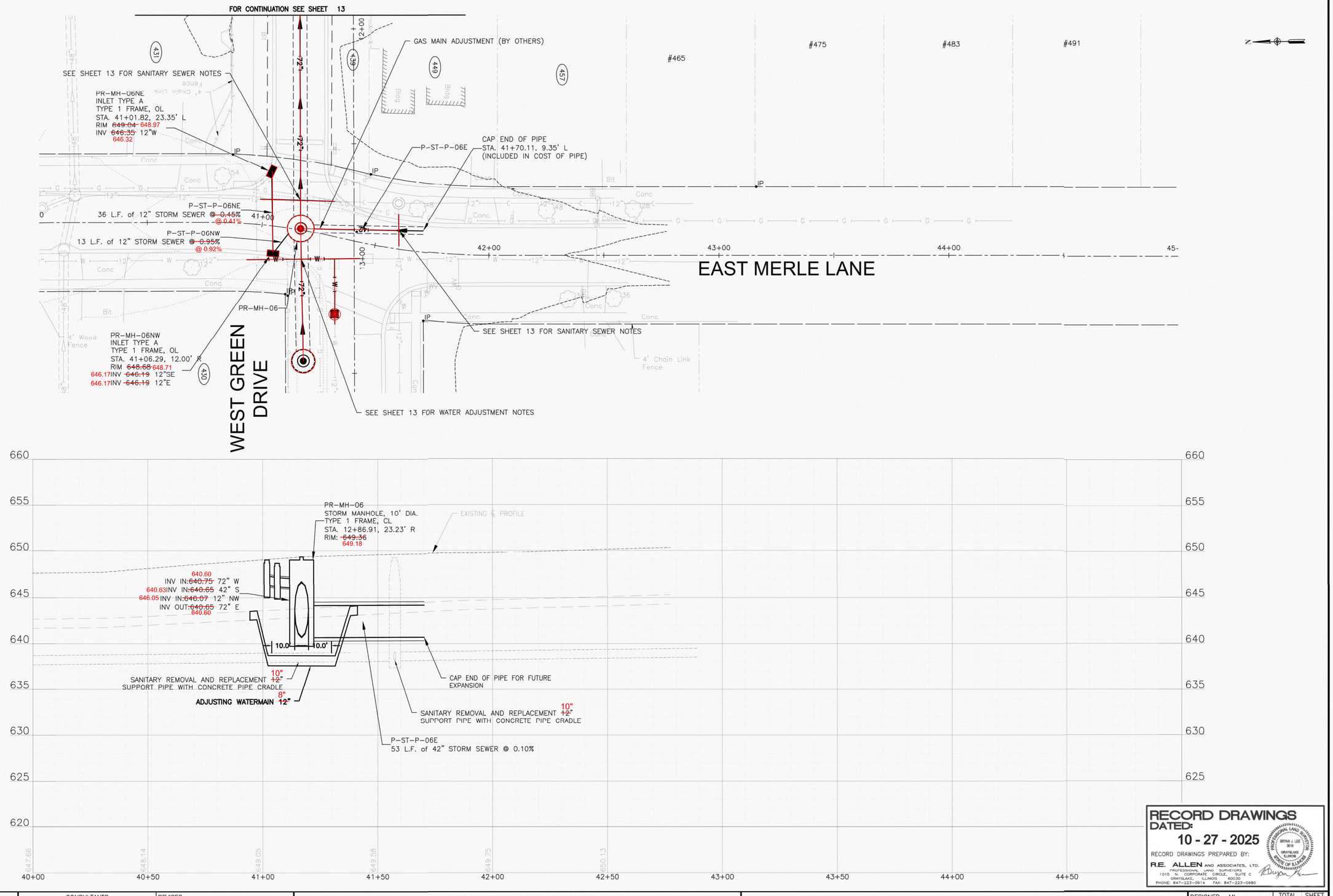

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DATED:
10 - 27 - 2025
RECORD DRAWINGS PREPARED BY:
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PROFESSIONAL LAND SURVEYORS
1015 N. CORPORATE CIRCLE, SUITE C
GRAYSLAKE, ILLINOIS 60030
PHONE: 847-223-0914 FAX: 847-223-0980

BAXTER & WOODMAN Consulting Engineers

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	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 1

EAST MERLE LANE STA 40+00 TO STA 45+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS			
CHECKED – MD		23	14
DATE – 05/28/2024			

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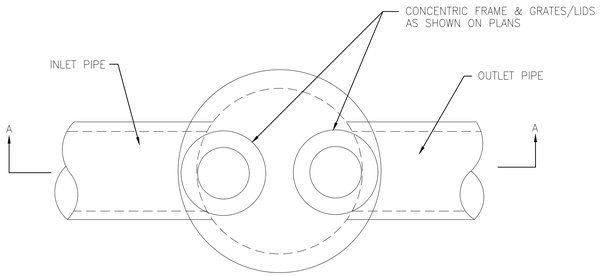
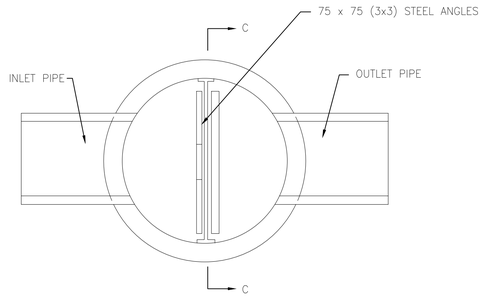


PLAN



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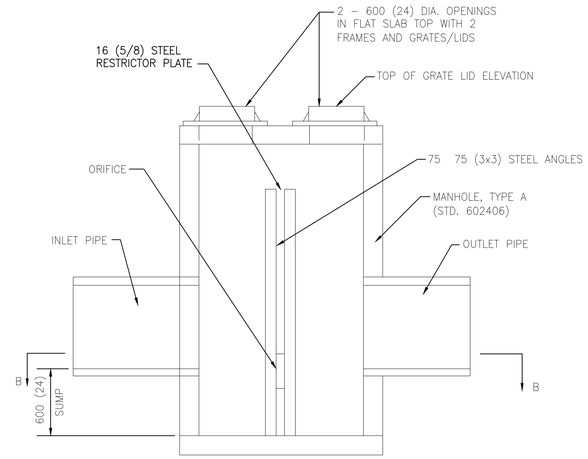

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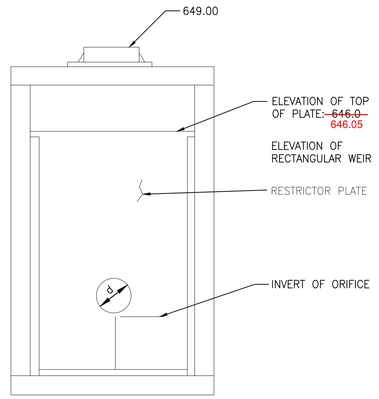
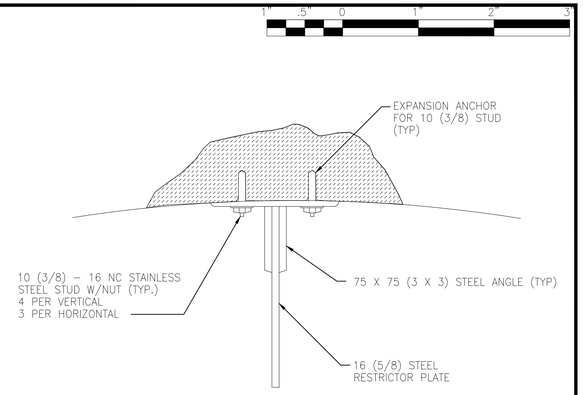


SECTION C–C



ANGLE FASTENER DETAIL

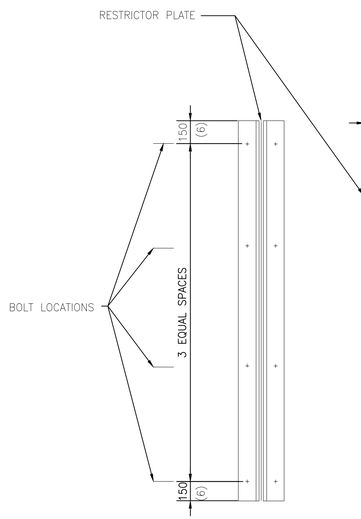
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.

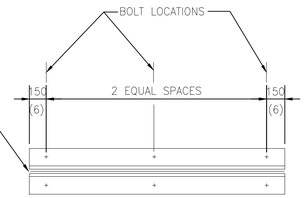
INLET DETAIL ORIFICE

STR. NO.	STATION LOCATION OFFSET	MANHOLE DIAMETER	FRAME AND GRATE	ORIFICE	INVERT OF ORIFICE	ELEVATION OF TOP OF PLATE OVERFLOW
PR–MH–3	SEE SHEET 11	6'	TY 1 FRAME, CL	10.75"	~~639.05~~ ~~639.00~~	~~646.05~~ ~~646.00~~

RESTRICTOR MANHOLE DETAIL



TYPICAL VERTICAL ANGLES LOOKING TOWARD MANHOLE WALL



TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 75 X 75 X 10 (3X3X3/8)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAIL

RESTRICTOR TYPE	
2	6
SHARP EDGED	ROUNDED
C=.61	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

RECORD DRAWINGS
DATED:
10 - 27 - 2025
RECORD DRAWINGS PREPARED BY:
R.E. ALLEN AND ASSOCIATES, LTD.
PROFESSIONAL LAND SURVEYORS
1015 N. CORPORATE CIRCLE, SUITE C
GRAYSLAKE, ILLINOIS 60030
PHONE: 847-223-0914 FAX: 847-223-0980
BRYAN J. LEE 3616 PROFESSIONAL LAND SURVEYOR GRAYSLAKE, ILLINOIS STATE OF ILLINOIS

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 1

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 04/22/2024	

TOTAL SHEETS	SHEET NO.
23	23

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS.DWG CONSTRUCTION DETAILS – 6
Plotted: 5/16/2024 8:19 AM By: JSLAGER
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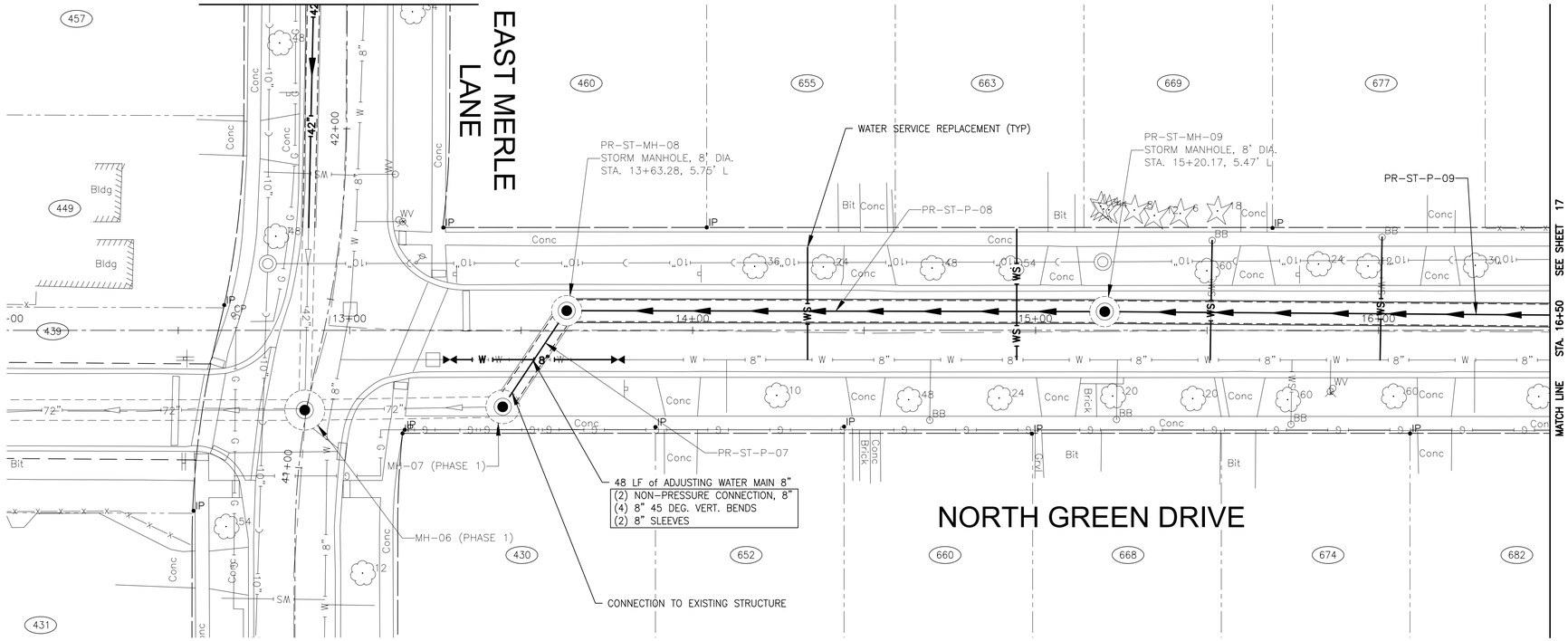

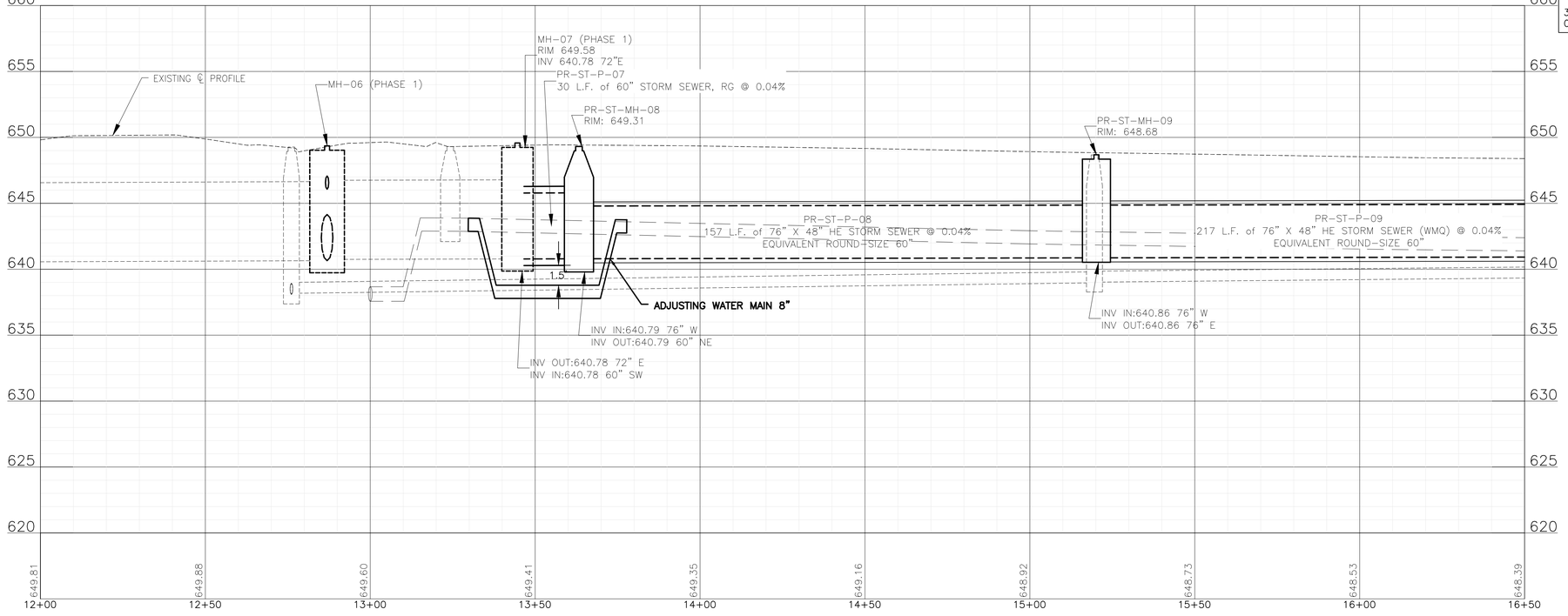

NOTES:

1. CONTRACTOR TO PROTECT EXISTING CURB & GUTTER DURING TRENCHING AND STORM SEWER INSTALLATION. CURB AND GUTTER SHALL BE REPLACED WHERE SHOWN ON THE PLAN OR AS DETERMINED BY THE ENGINEER.

2. SANITARY SERVICES ARE NOT SHOWN. ALL SERVICE LOCATIONS SHALL BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. PORTIONS OF SANITARY SERVICES CROSSING TRENCHES THAT ARE DETERMINED BY THE ENGINEER TO BE REPLACED, SHALL BE REPLACED UNDER THE PAY ITEM "SANITARY SERVICE LINE REPAIR". SANITARY SERVICES IN ELEVATION CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPLACED AND ADJUSTED UNDER THE PAY ITEM "SANITARY SERVICE ADJUSTMENT".

3. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2
		REVISED –	
		REVISED –	
		REVISED –	

NORTH GREEN DRIVE STA 12+00 TO STA 16+50 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	16
CHECKED – MD			
DATE – 02/03/2025			

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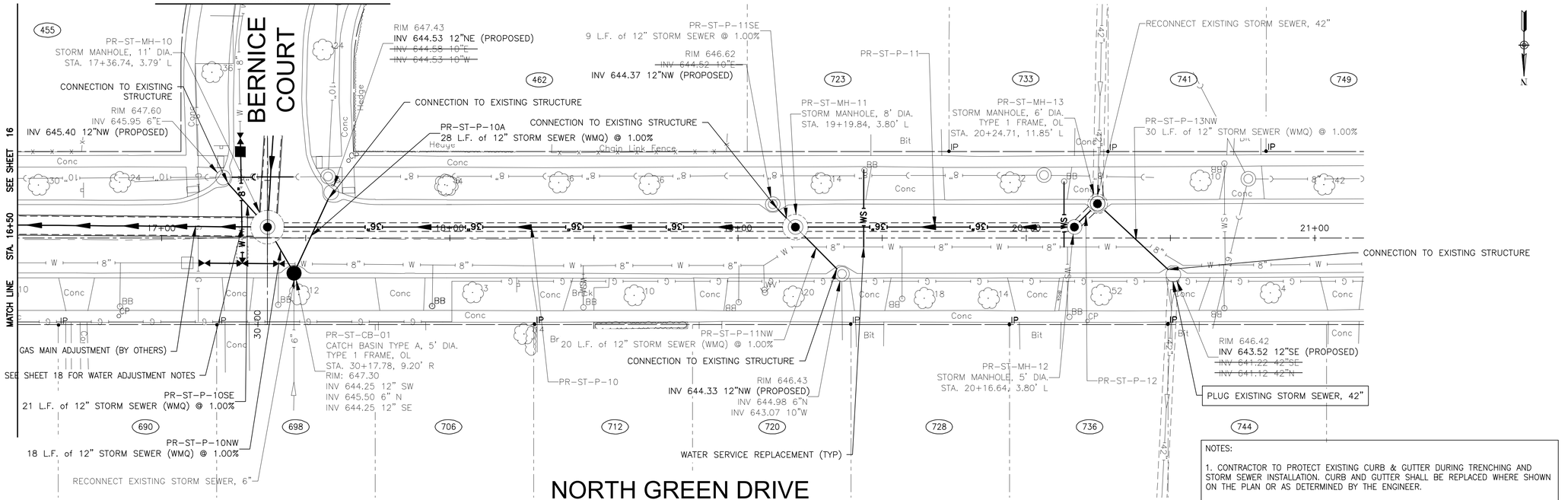
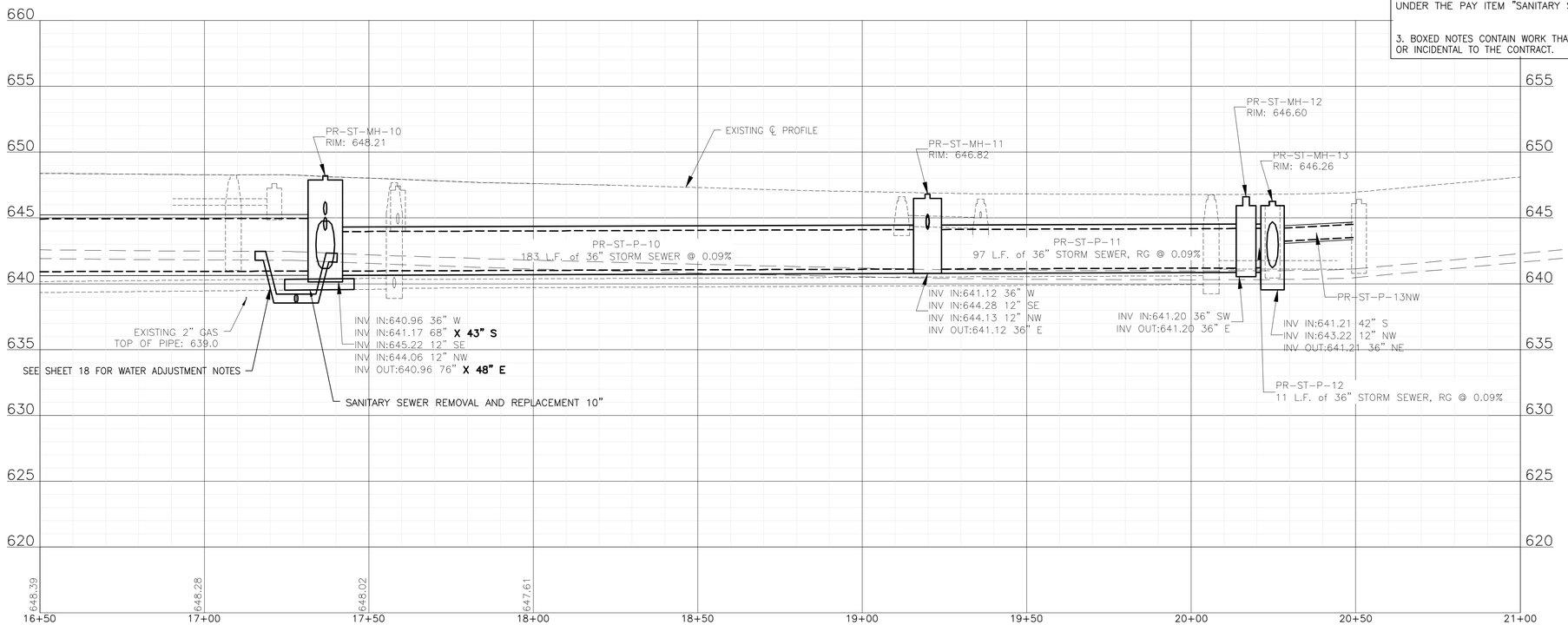


NOTES:

1. CONTRACTOR TO PROTECT EXISTING CURB & GUTTER DURING TRENCHING AND STORM SEWER INSTALLATION. CURB AND GUTTER SHALL BE REPLACED WHERE SHOWN ON THE PLAN OR AS DETERMINED BY THE ENGINEER.

2. SANITARY SERVICES ARE NOT SHOWN. ALL SERVICE LOCATIONS SHALL BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. PORTIONS OF SANITARY SERVICES CROSSING TRENCHES THAT ARE DETERMINED BY THE ENGINEER TO BE REPLACED, SHALL BE REPLACED UNDER THE PAY ITEM "SANITARY SERVICE LINE REPAIR". SANITARY SERVICES IN ELEVATION CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPLACED AND ADJUSTED UNDER THE PAY ITEM "SANITARY SERVICE ADJUSTMENT".

3. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	NORTH GREEN DRIVE STA 16+50 TO STA 21+00 DRAINAGE AND UTILITIES	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 02/03/2025
		REVISED –			
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838	TOTAL SHEETS: 37 SHEET NO.: 17

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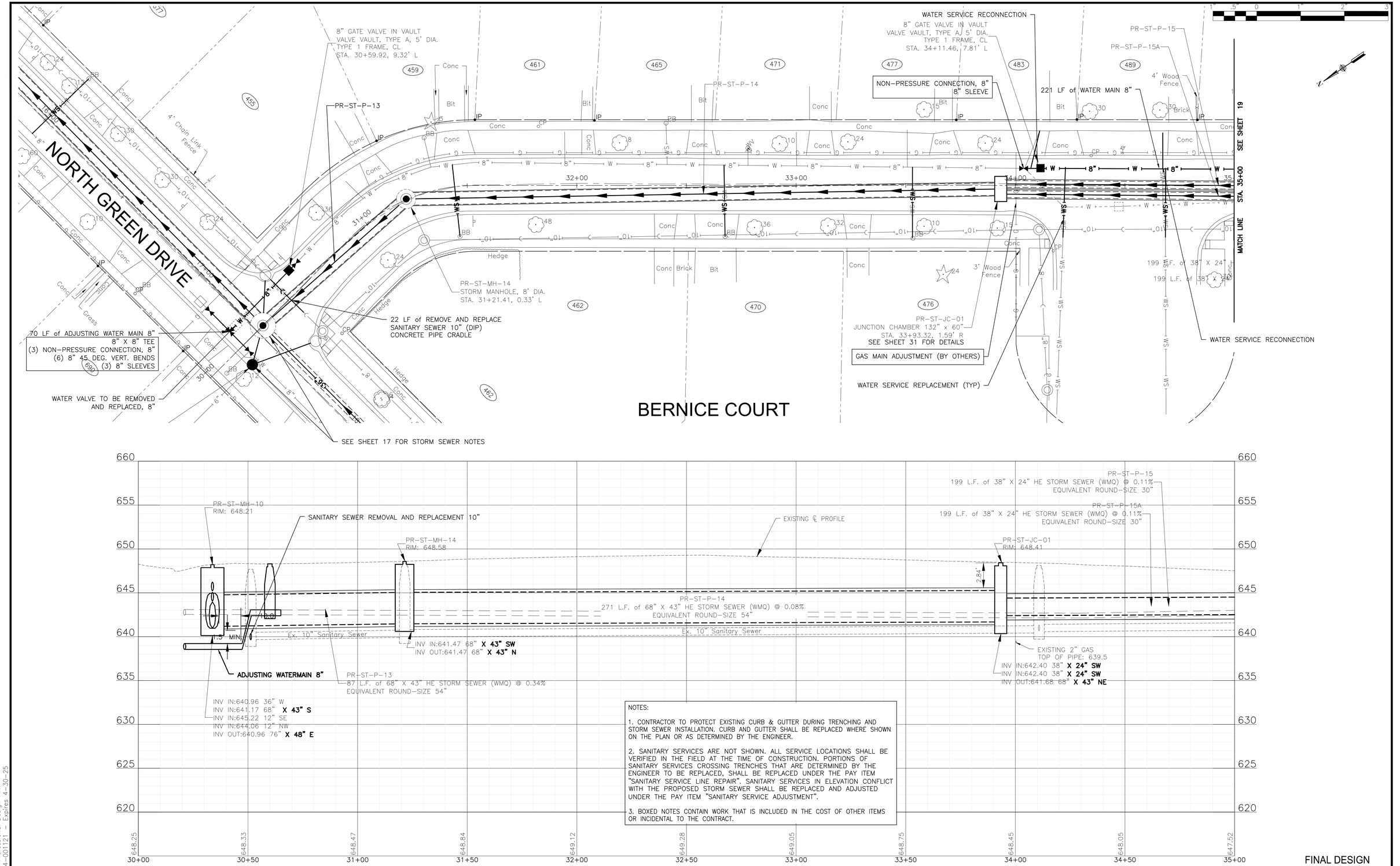

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FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

BERNICE COURT STA 30+00 TO STA 35+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	18
CHECKED – MD			
DATE – 02/03/2025			

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P-ST-MH-16
STORM MANHOLE, 4' DIA.
TYPE 1 FRAME, OL
STA. 57+26.29, 288.41' R
RIM: 646.34
INV 644.02 12" NE
INV 643.05 24" SE
INV 642.72 24" NW

PR-ST-CB-02
CATCH BASIN TYPE C, 2' DIA.
TYPE 1 FRAME, OL
STA. 35+75.22, 12.16' L
RIM: 646.51
INV 644.17 12" SW

PR-ST-JC-02
JUNCTION CHAMBER 132" X 60"
TYPE 1 FRAME, CL
STA. 35+92.43, 3.17' R
RIM: 646.94
INV 642.61 38" **X 24" SW**
INV 642.61 24" SE
INV 642.61 24" NW
INV 642.61 38" **X 24" NE**
INV 642.61 38" **X 24" NE**
SEE SHEET 31 FOR DETAILS

P-ST-MH-15
STORM MANHOLE, 7' DIA.
WITH 2 TYPE 1 FRAME, CL
RESTRICTOR PLATE
STA. 35+91.57, 21.26' R
RIM: 646.94
INV 643.34 24" SW
INV 643.94 8" E
INV 643.05 24" SE
INV 641.39 42" NW
SEE SHEET 37 FOR RESTRICTOR MANHOLE DETAIL

NOTES:

1. CONTRACTOR TO PROTECT EXISTING CURB & GUTTER DURING TRENCHING AND STORM SEWER INSTALLATION. CURB AND GUTTER SHALL BE REPLACED WHERE SHOWN ON THE PLAN OR AS DETERMINED BY THE ENGINEER.

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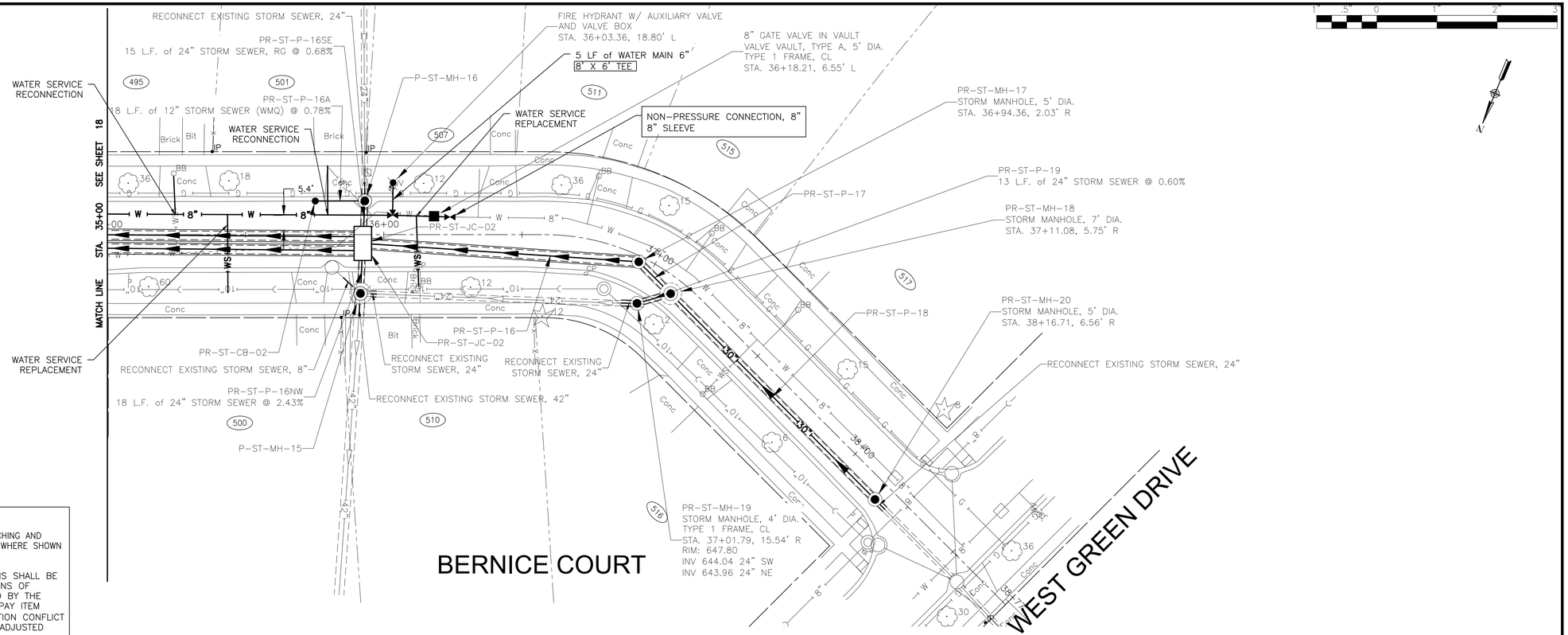
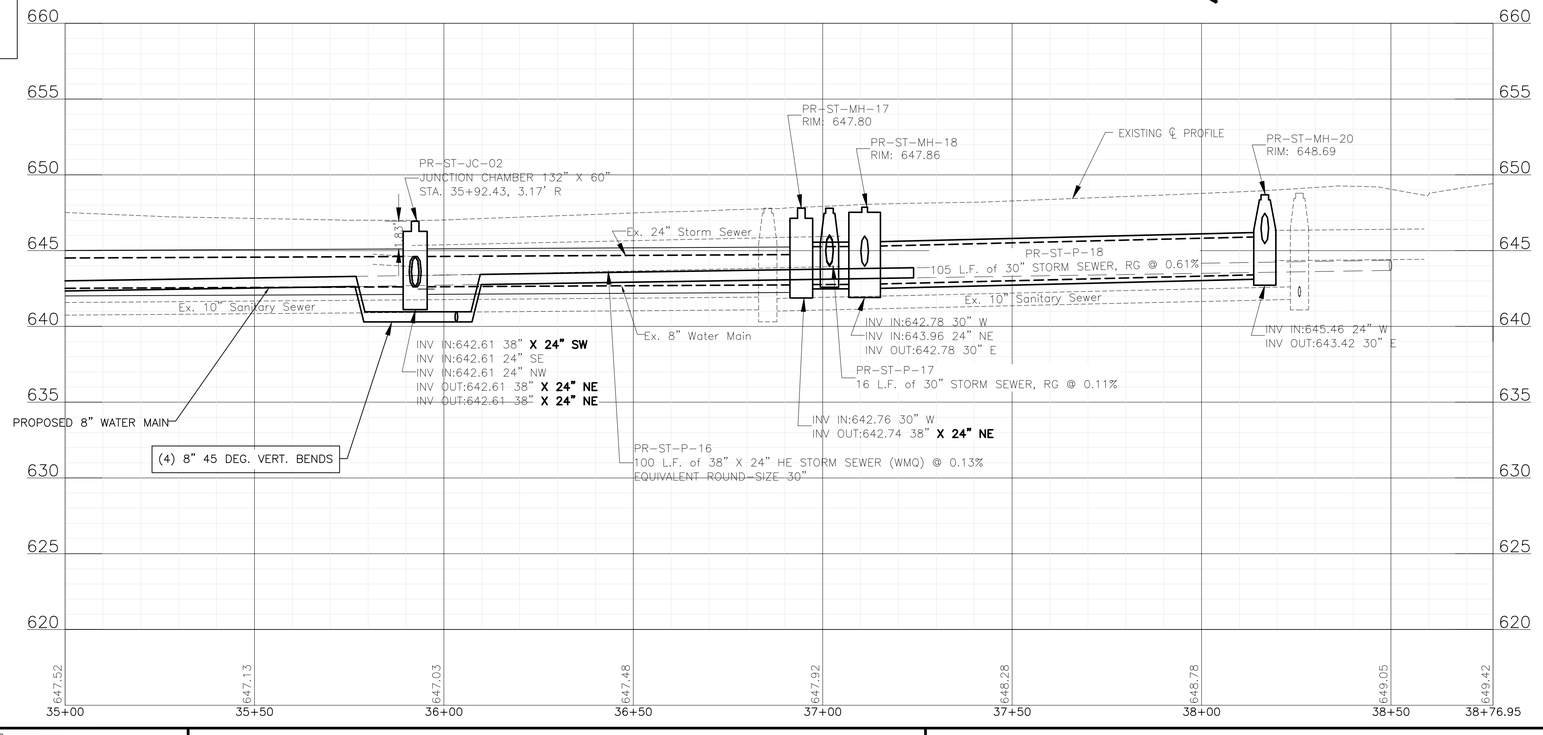
3. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.





FINAL DESIGN FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

BERNICE COURT STA 35+00 TO STA 39+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	19
CHECKED – MD			
DATE – 02/03/2025			

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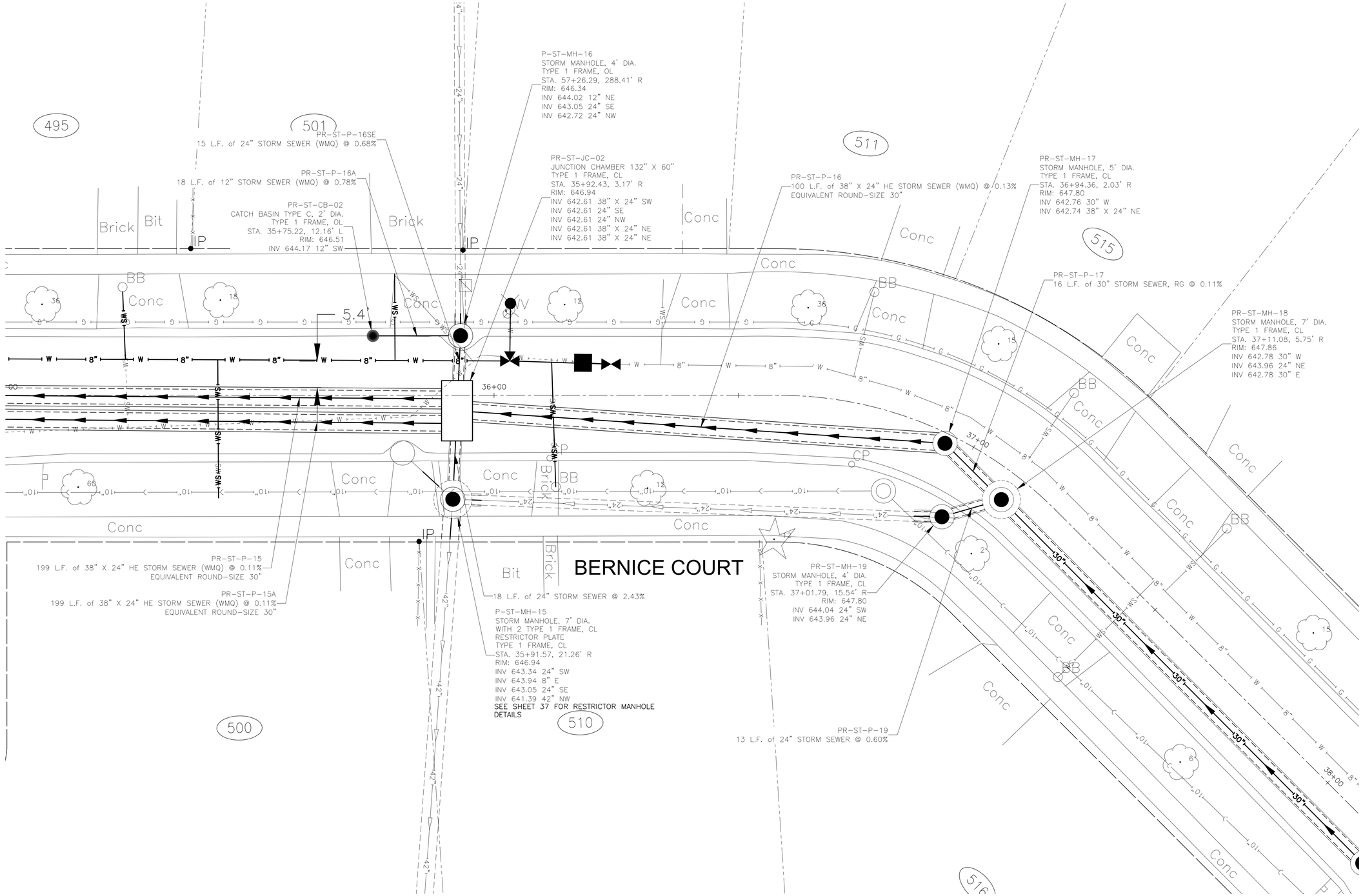

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	BERNICE COURT STA 35+50 TO STA 38+00 STORM SEWER DETAIL	DESIGNED – ML	TOTAL SHEETS 37 / SHEET NO. 19A
		REVISED –			DRAWN – JJS	
		REVISED –			CHECKED – MD	
		REVISED –		SCALE: 1" = 10' / PROJECT NO: 210838	DATE – 02/03/2025	

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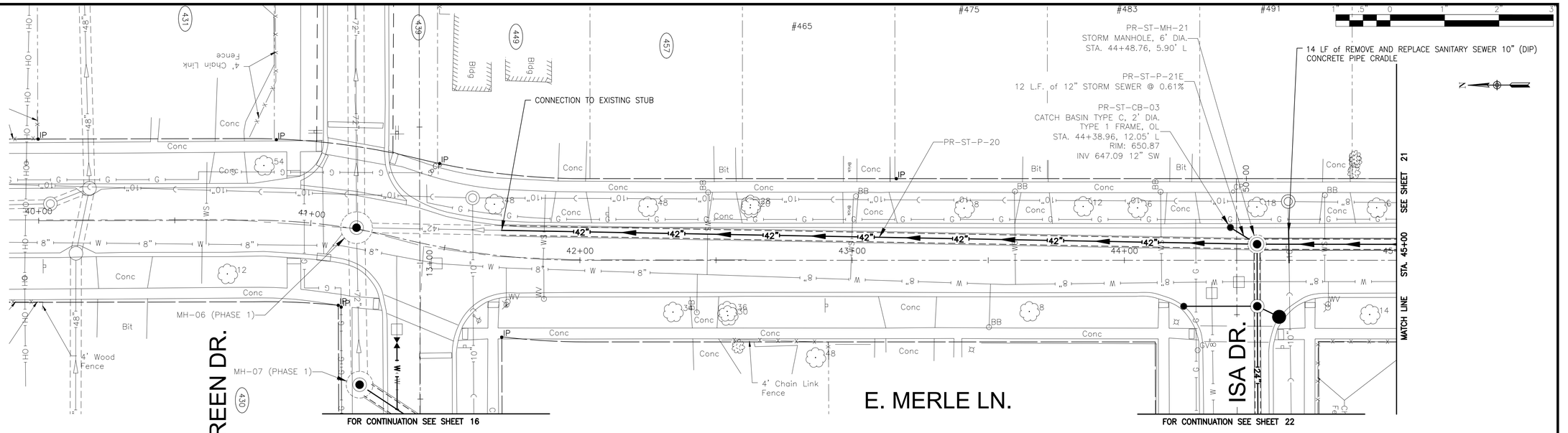

NOTES:

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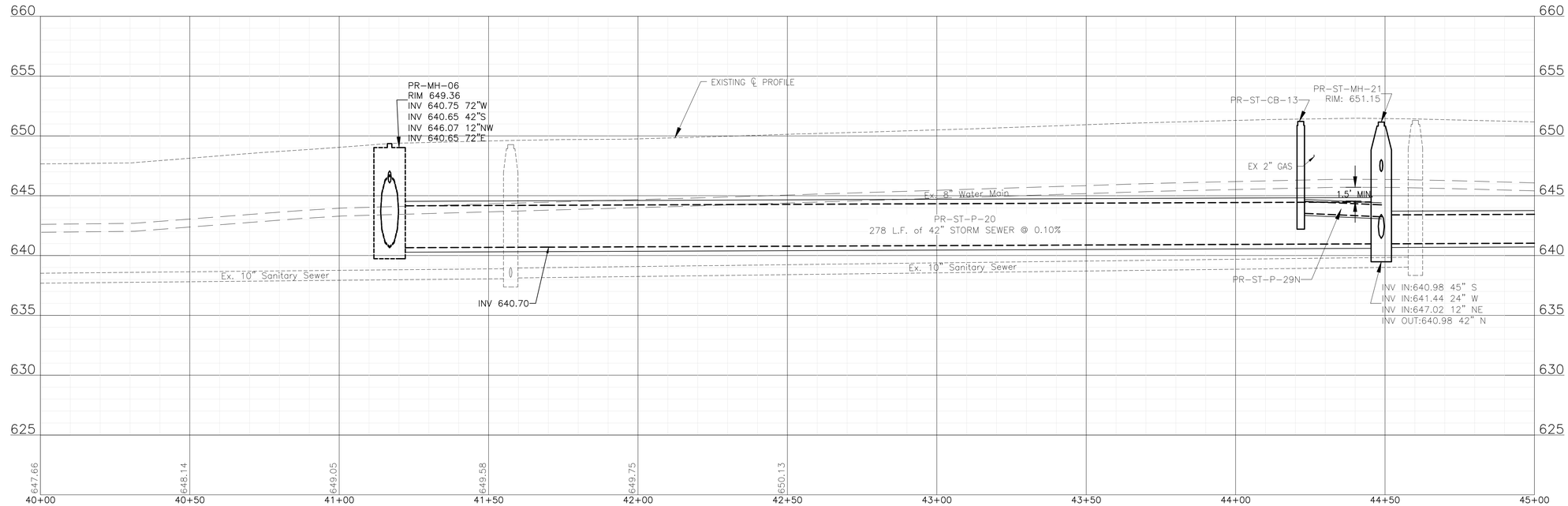

FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2
		REVISED –	
		REVISED –	
		REVISED –	

EAST MERLE LANE STA 40+00 TO STA 45+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

DESIGNED – ML	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	37	20
CHECKED – MD		
DATE – 02/03/2025		

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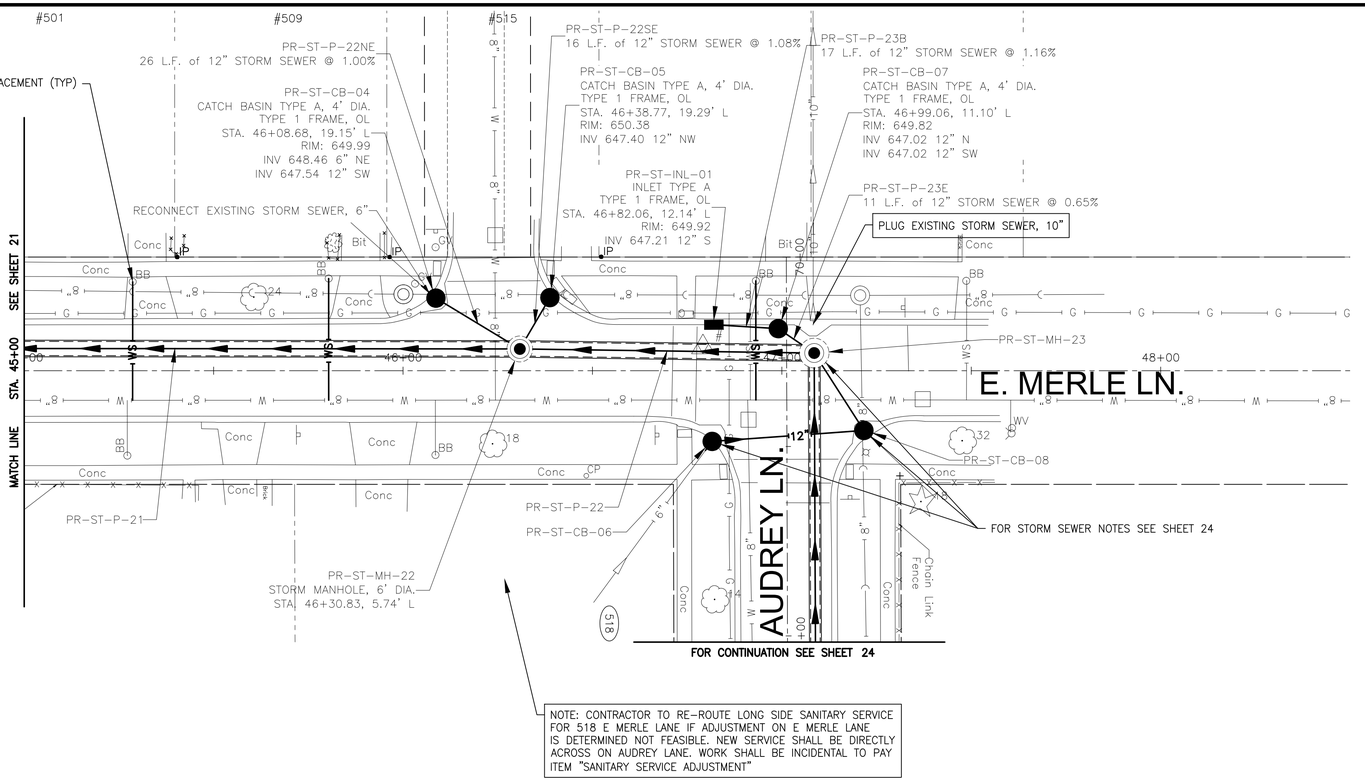

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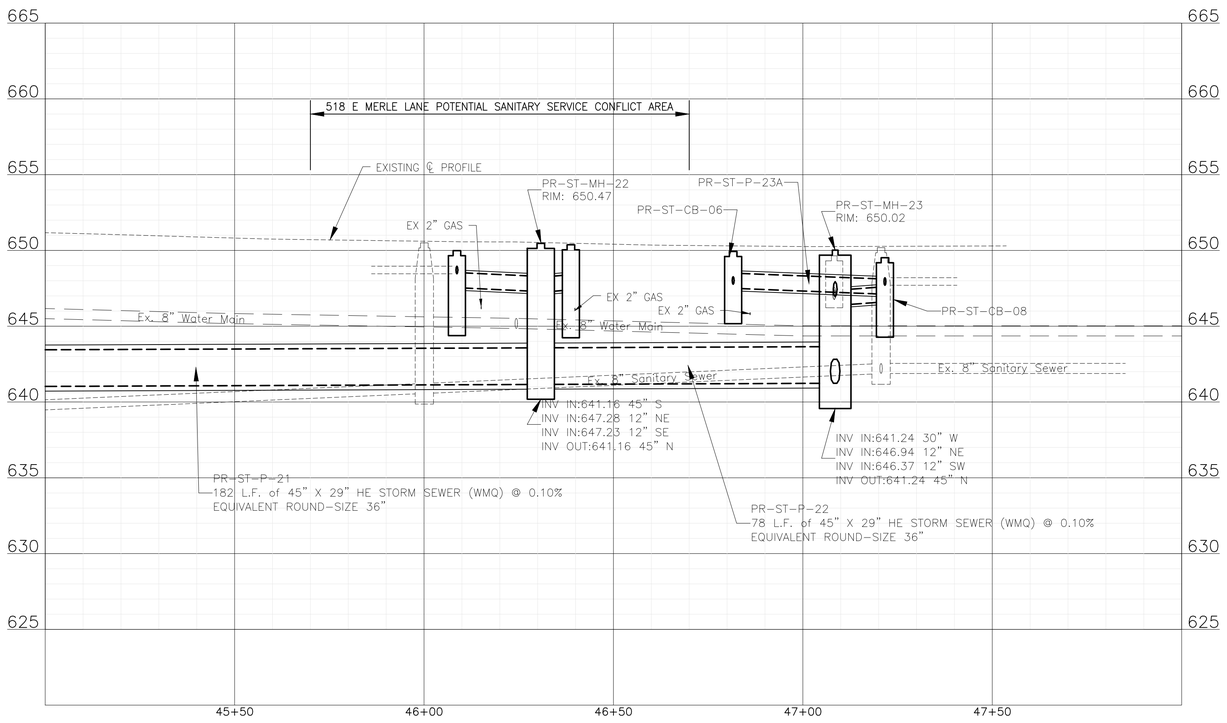

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	EAST MERLE LANE STA 45+00 TO STA 47+50 DRAINAGE AND UTILITIES	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 02/03/2025
		REVISED –			
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838	TOTAL SHEETS: 37 SHEET NO.: 21

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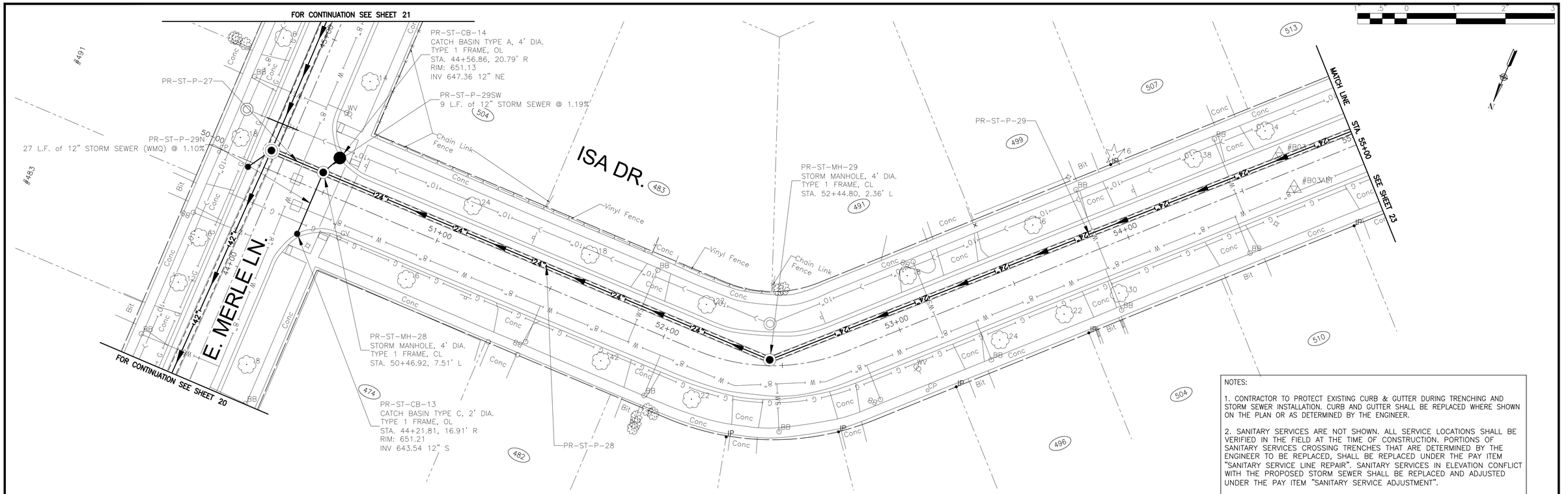

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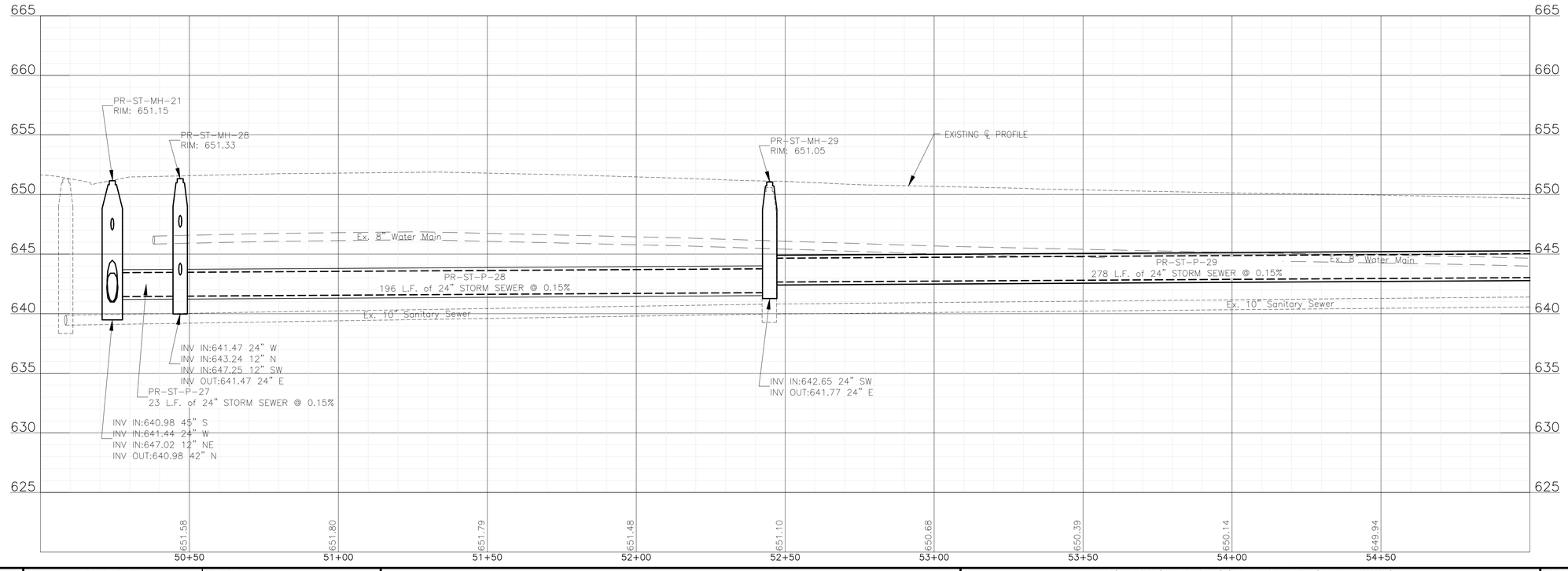

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN consulting engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2
		REVISED –	
		REVISED –	
		REVISED –	

ISA DRIVE STA 50+00 TO STA 55+00 DRAINAGE AND UTILITIES

SCALE:	HORIZ 1"=20' / VERT 1"=5'	PROJECT NO:	210838	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 02/03/2025	TOTAL SHEETS: 37 / SHEET NO.: 22

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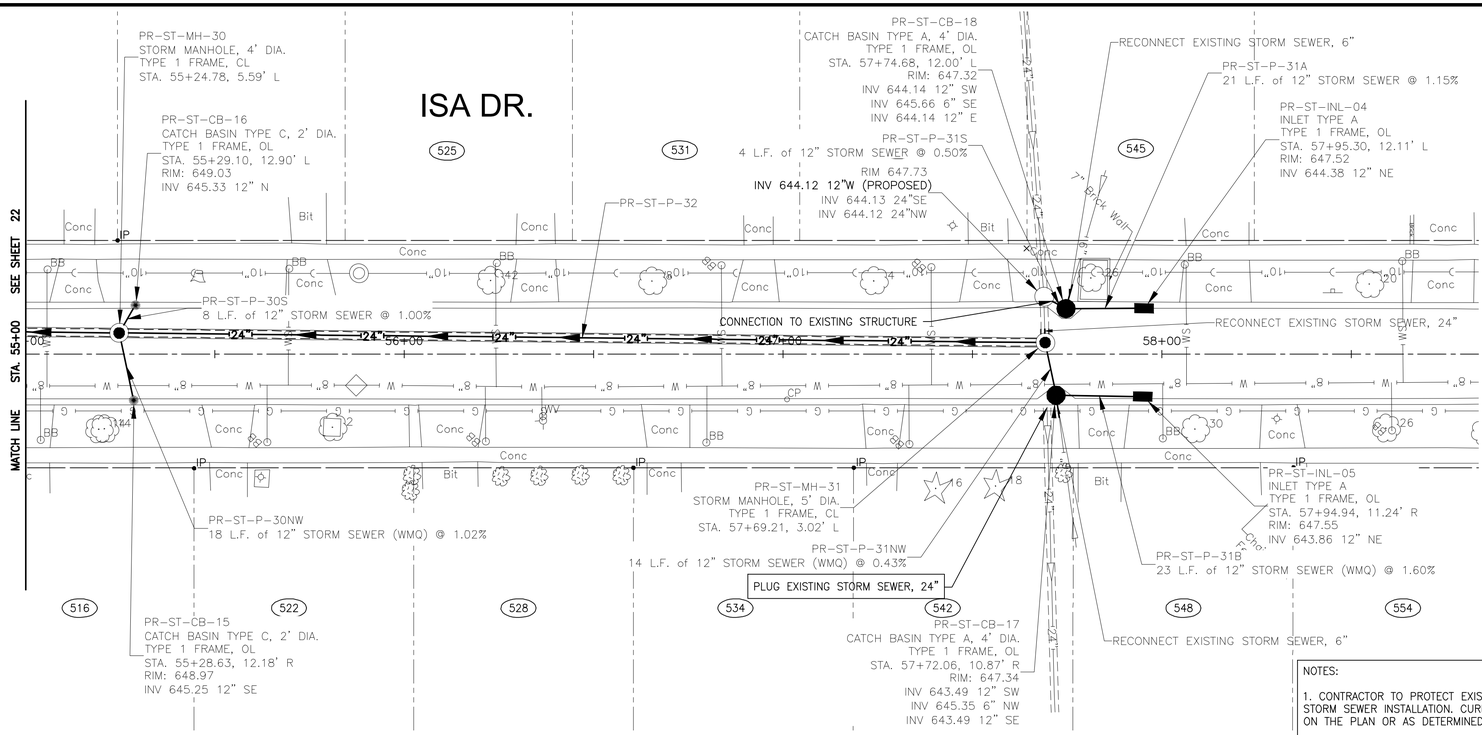

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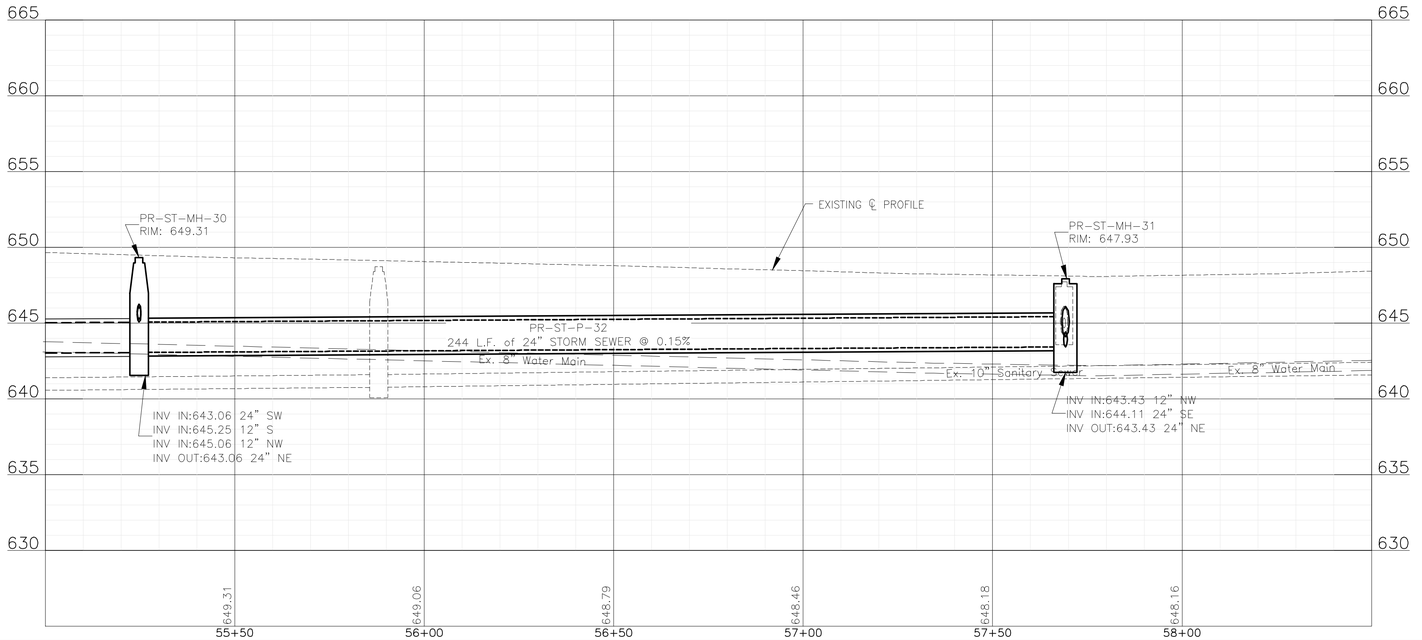

FINAL DESIGN
FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

ISA DRIVE STA 55+00 TO STA 58+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS			
CHECKED – MD		37	23
DATE – 02/03/2025			

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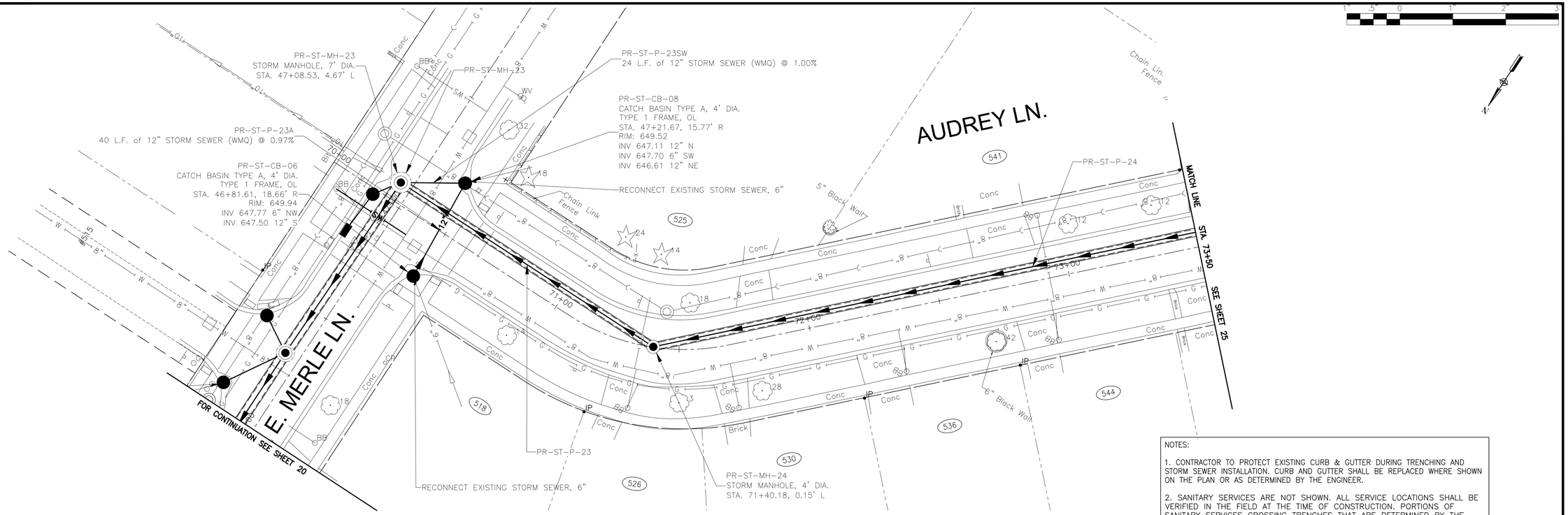

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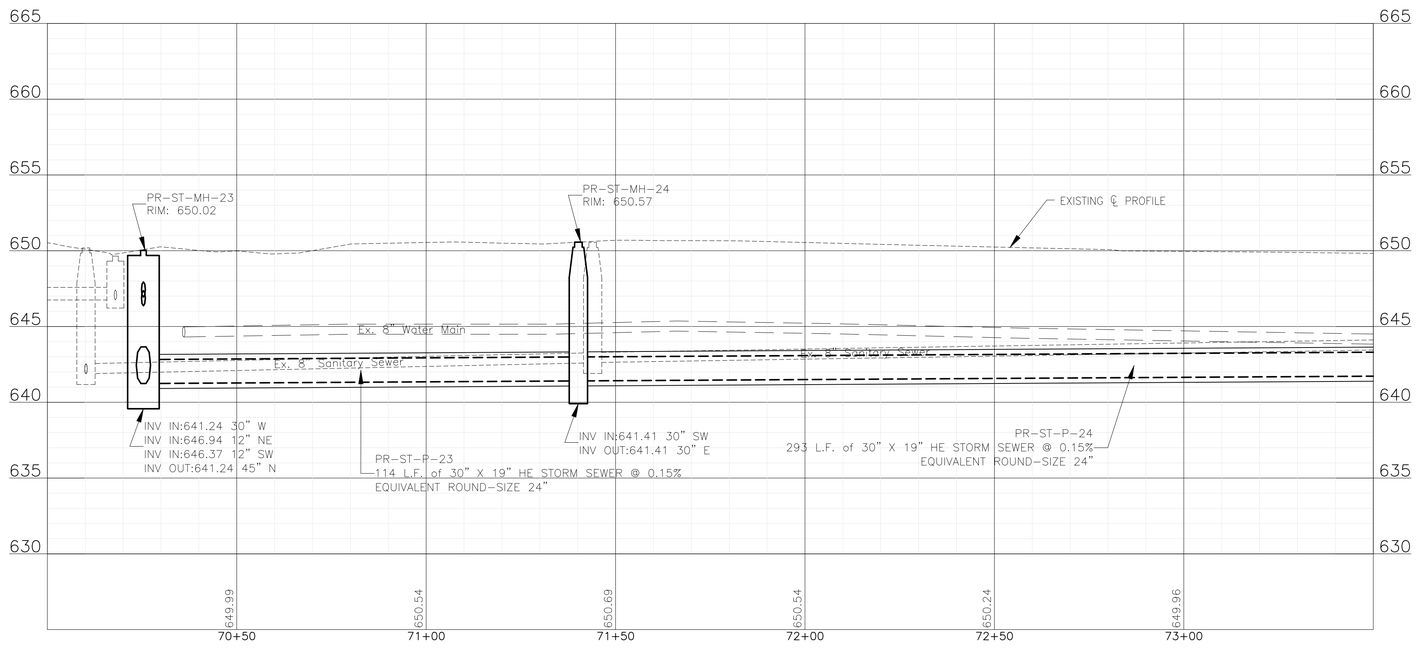

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2
		REVISED –	
		REVISED –	
		REVISED –	

AUDREY LANE STA 70+00 TO STA 73+50 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

DESIGNED – ML		TOTAL SHEETS	SHEET NO.
DRAWN – JJS		37	24
CHECKED – MD			
DATE – 02/03/2025			

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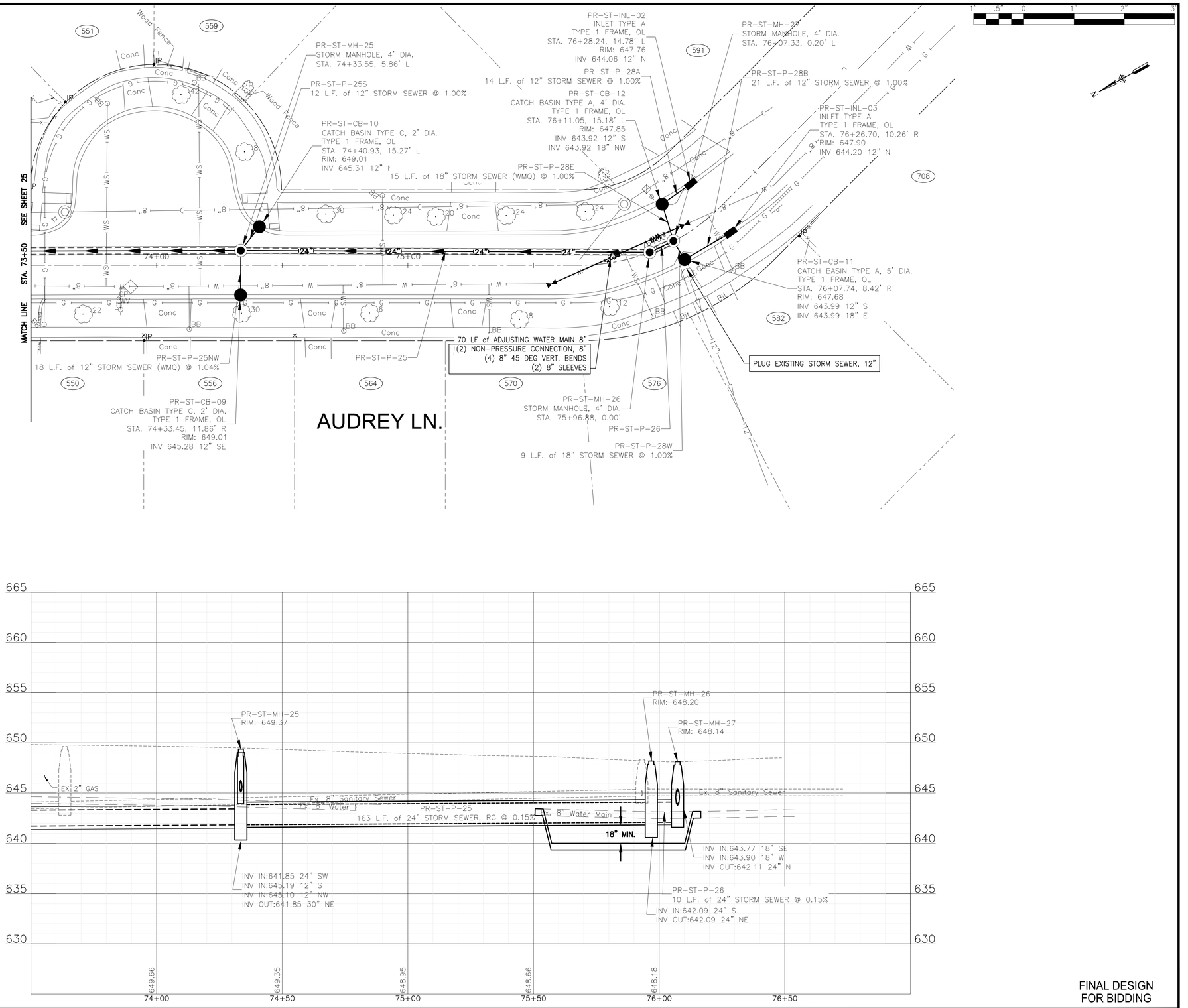

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FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	AUDREY LANE STA 73+50 TO STA 76+50 DRAINAGE AND UTILITIES	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 02/03/2025
		REVISED –			
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838	TOTAL SHEETS: 37 SHEET NO.: 25

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-DESIGN_SHEETS_PHASE 2.DWG 73+50.00
Plotted: 2/3/2025 3:50 PM By: MLEE
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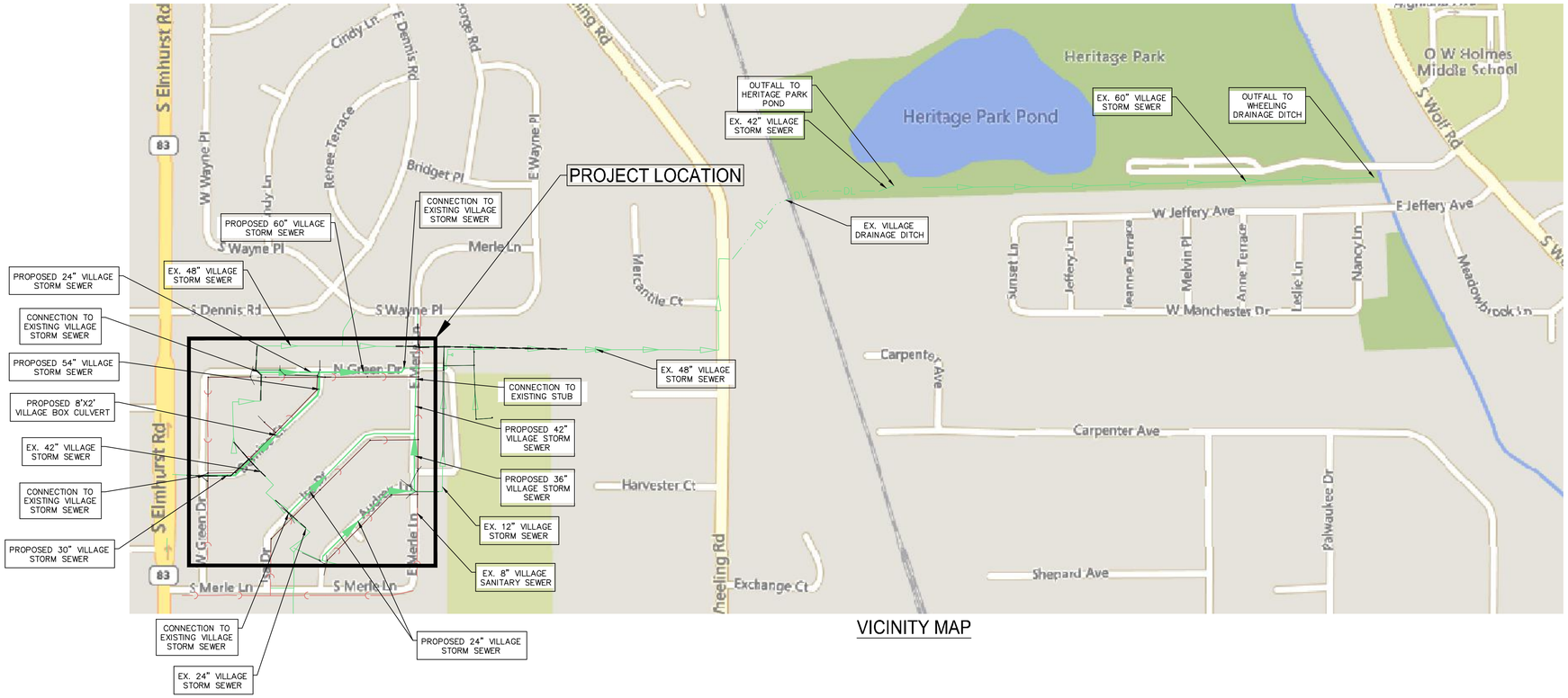
VILLAGE OF WHEELING, ILLINOIS

SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

AS-BUILT

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION

DATE 1-15-26 BY LFG/TB



VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	LEGENDS, BENCHMARKS, AND ABBREVIATIONS
3	GENERAL NOTES
4	MWRD NOTES
5	SUMMARY OF QUANTITIES
6	NORTH GREEN DRIVE DEMOLITION PLAN
7	BERNICE COURT DEMOLITION PLAN
8	EAST MERLE LANE DEMOLITION PLAN
9	ISA DRIVE DEMOLITION PLAN
10	AUDREY LANE DEMOLITION PLAN
11	NORTH GREEN DRIVE SOIL EROSION AND SEDIMENT CONTROL PLAN
12	BERNICE COURT SOIL EROSION AND SEDIMENT CONTROL PLAN
13	EAST MERLE LANE SOIL EROSION AND SEDIMENT CONTROL PLAN
14	ISA DRIVE SOIL EROSION AND SEDIMENT CONTROL PLAN
15	AUDREY LANE SOIL EROSION AND SEDIMENT CONTROL PLAN
16	NORTH GREEN DRIVE STA 12+00 TO STA 16+50 DRAINAGE AND UTILITIES
17	NORTH GREEN DRIVE STA 16+50 TO STA 21+00 DRAINAGE AND UTILITIES
18	BERNICE COURT STA 30+00 TO STA 35+00 DRAINAGE AND UTILITIES
19	BERNICE COURT STA 35+00 TO STA 39+00 DRAINAGE AND UTILITIES
19A	BERNICE COURT STA 35+50 TO STA 38+00 STORM SEWER DETAIL
20	EAST MERLE LANE STA 40+00 TO STA 45+00 DRAINAGE AND UTILITIES
21	EAST MERLE LANE STA 45+00 TO STA 47+50 DRAINAGE AND UTILITIES
22	ISA DRIVE STA 50+00 TO STA 55+00 DRAINAGE AND UTILITIES
23	ISA DRIVE STA 55+00 TO STA 58+00 DRAINAGE AND UTILITIES
24	AUDREY LANE STA 70+00 TO STA 73+50 DRAINAGE AND UTILITIES
25	AUDREY LANE STA 73+50 TO STA 76+50 DRAINAGE AND UTILITIES
26	NORTH GREEN DRIVE RESTORATION PLAN
27	BERNICE COURT RESTORATION PLAN
28	EAST MERLE LANE RESTORATION PLAN
29	ISA DRIVE RESTORATION PLAN
30	AUDREY LANE RESTORATION PLAN
31	PRECAST CONCRETE STRUCTURE DETAILS
32	CONSTRUCTION DETAILS
33	CONSTRUCTION DETAILS
34	CONSTRUCTION DETAILS
35	CONSTRUCTION DETAILS
36	CONSTRUCTION DETAILS
37	CONSTRUCTION DETAILS

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE PROPOSED DEVELOPMENT. IF ANY DRAINAGE PATTERNS WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTIONS AND DIVERSION OF SUCH SURFACE WATERS INTO THE PUBLIC AREA, OR DRAINS APPROVED FOR THE USE BY THE MUNICIPAL ENGINEER AND THAT SUCH SURFACE WATERS ARE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGES TO ADJOINING PROPERTIES.

MOLLY DEASE
062-207304
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

"LICENSE EXPIRES 11-30-2025"
PROJECT MANAGER

MICHELLE LEE
062-073078
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

"LICENSE EXPIRES 11-30-2025"
PROJECT ENGINEER

EXISTING UTILITIES:

WHERE THE DRAWINGS 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. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS REGARDING 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. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION REGARDING THE LOCATION OF THE UTILITY FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.

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

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

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

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PROJECT NO.: 210838 DATE: 06/25/2025

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG COVER
Plotted: 2/6/2026 2:09 PM By: TBETTE

LEGEND

EXISTING		PROPOSED
	SANITARY SEWER OR SERVICE	
	STORM SEWER OR SERVICE	
W	WATER MAIN	
WS	WATER SERVICE	
FM	FORCE MAIN	
	MANHOLE	
	CATCH BASIN	
	INLET	
	DRYWELL	
	FLARED END SECTION	
	FIRE HYDRANT	
WV	WATER VALVE W/ BOX AND COVER	WV
	WATER VALVE VAULT	
BB	WATER SERVICE BOX OR CURB STOP	BB
WM	WATER METER	
CO	CLEAN OUT	
SV	SEPTIC VENT	
	TO BE ABANDONED AND/OR REMOVED	
G	GAS LINE	
GV	GAS VALVE W/ BOX AND COVER	
GVV	GAS VALVE VAULT	
GM	GAS METER	
GR	GAS RISER	
GAS	GAS SERVICE VALVE	
T	TELEPHONE CABLE	
TD	TELEPHONE DUCT	
TEL	TELEPHONE VAULT	
TR	TELEPHONE RISER	
CTV	CABLE TELEVISION (BURIED)	
CTV	CABLE T.V. RISER	
CTV	CABLE T.V. VAULT	
E	UNDERGROUND ELECTRICAL	
EM	ELECTRIC METER	
ET	PAD MOUNTED TRANSFORMER	
EV	ELECTRIC VAULT	
JB	JUNCTION BOX	
	UTILITY POLE w/ GUY ANCHOR	
	UTILITY POLE w/ LIGHT	
	LIGHT STANDARD	
MB	MAIL BOX	

EXISTING		PROPOSED
	STREET SIGN	
	RAILROAD SIGNAL	
	TRAFFIC SIGNAL CONTROLLER	
	TRAFFIC SIGNAL POST W/ SIGNAL HEAD	
	HANDHOLE	
12"	DECIDUOUS TREE (W/ TRUNK INCH DIA.)	(HATCHED SHALL BE REMOVED)
16"	CONIFEROUS TREE (W/ HEIGHT)	(HATCHED SHALL BE REMOVED)
	DECIDUOUS BUSH	
	CONIFEROUS BUSH	
	DEFINING EDGE OF BRUSH OR FORESTED AREA	
X X	FENCE	X X
	GUARD RAIL	
	CULVERT (CMP UNLESS NOTED)	
	DITCH	
	SUMMIT	
	EDGE OF LAKE, RIVER, ETC.	
	MARSH	
Top Toe	TOP OR TOE OF SLOPE	
742	CONTOUR	742
	EASEMENT	
R.O.W.	RIGHT OF WAY (ROW)	PROP. R.O.W.
X R.O.W. X	FENCED RIGHT OF WAY (ROW)	
ROW	RIGHT OF WAY MONUMENT	
P.L.	UNFENCED PROPERTY LINE	
X P.L. X	FENCED PROPERTY LINE	
IP	IRON PIPE (PROPERTY CORNER)	
	CORPORATE LIMITS	
	BASE LINE OR SURVEY LINE	
	CENTER LINE	
625.35 (625.9) P.O.C	PROPOSED EL./(EXISTING EL.) (POINT, GUTTER, TOP OF CURB)	
	SOIL BORING AND NUMBER	
B.M.	BENCH MARK	
CP	SURVEY CONTROL POINT	
OH	OVERHEAD ELECTRICAL	
	UTILITY POLE	
	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	SP
	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	ADJ
	SILT FENCE	
	INLET PROTECTION FILTER	

BENCHMARKS (NAVD 88 DATUM)

B.M. # 59 — CUT X ON THE NORTHWEST SIDE OF SANITARY MANHOLE RIM IN THE DRIVEWAY OF 741 NORTH GREEN DRIVE
ELEV. = 647.629

B.M. # 60 — NORTHWEST ARROW BOLT OF HYDRANT LOCATED AT THE SOUTHWEST CORNER OF ISA DRIVE AND EAST MERLE LANE
ELEV. = 653.457

B.M. # 61 — CUT X ON THE WEST SIDE OF SANITARY MANHOLE RIM AT ADDRESS 533 EAST MERLE LANE
ELEV. = 650.183

B.M. # 62 — NORTHEAST ARROW BOLT OF HYDRANT LOCATED BETWEEN ADDRESSES 550 AUDREY LANE AND 556 AUDREY LANE
ELEV. = 651.839

B.M. # 63 — NORTHEAST ARROW BOLT OF HYDRANT FLANGE LOCATED AT THE NORTHWEST SIDE OF THE STREET AT ADDRESS 490 ISA DRIVE
ELEV. = 652.448

EXISTING PAVEMENT THICKNESS

STREET	EXISTING HMA SURFACE AND BINDER	EXISTING AGGREGATE BASE COURSE
N GREEN DRIVE	6"	14"
BERNICE COURT	8"	4"
ISA DRIVE	8"	5"
EAST MERLE LANE/AUDREY LANE	7"	5"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	"AIR VOIDS @ Ndes"
CLASS D PATCHES 7" (N GREEN DRIVE, EAST MERLE LANE, AUDREY LANE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50; (IL 9.5mm); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 5"	4% @ 50 Gyr.
CLASS D PATCHES 8" (BERNICE CT, ISA DRIVE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50; (IL 9.5mm); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50: 6"	4% @ 50 Gyr
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.	

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE	EOP	EDGE OF PAVEMENT	POT	POINT ON TANGENT
CL	CENTERLINE	PL	PROPERTY LINE	PCC	POINT OF COMPOUND CURVATURE
BIT	BITUMINOUS PAVEMENT	ROW	RIGHT OF WAY	PRC	POINT OF REVERSE CURVE
GR	GRAVEL	FL	FLOW LINE	VC	VERTICAL CURVE
CMP	CORRUGATED METAL PIPE	TF	TOP OF FRAME	N&W	NAIL AND WASHER
FH	FIRE HYDRANT	TC	TOP OF CURB OR CONCRETE	TCE	TEMPORARY CONSTRUCTION EASEMENT
CI	CAST IRON	R	STRUCTURE TO BE RECONSTRUCTED	SS	STORM SEWER
DI	DUCTILE IRON	A	STRUCTURE TO BE ADJUSTED	SAN SEW	SANITARY SEWER
F-F	FACE-TO-FACE		CENTRAL ANGLE	PROP	PROPOSED
E-E	EDGE-TO-EDGE	D=	DEGREE OF CURVE	STN STL	STAINLESS STEEL
B-B	BACK-TO-BACK	▲=	TANGENT LENGTH	RJT	RESTRAINED JOINT
BM	BENCH MARK	L=	CURVE LENGTH	HDD	HORIZONTAL DIRECTIONALLY DRILLED
INV EL	INVERT ELEVATION	R=	RADIUS OF CURVE	LF	LINEAR FEET
CL EL	CENTERLINE ELEVATION	E=	EXTERNAL DISTANCE	RG	RUBBER GASKET
P	POINT	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)	WMQ	WATER MAIN QUALITY OR WATER MAIN REQUIREMENTS
G	GUTTER	X=	EXTERNAL DISTANCE OF VERTICAL CURVE	OL	OPEN LID
C	CURB	PC	POINT OF CURVATURE	CL	CLOSED LID
C&G	CURB AND GUTTER	PI	POINT OF INTERSECTION	HE	HORIZONTAL ELLIPTICAL
BC	BACK OF CURB	PT	POINT OF TANGENCY		

MAXIMUM TRENCH WIDTH

PIPE DIA.	TRENCH WIDTH
12" OR SMALLER	3'
18"	3.5'
24"	4'
EQUIVALENT 24" (30" X 19")	7'
30"	6.5'
EQUIVALENT 30" (38" X 24")	7'
36"	7'
EQUIVALENT 36" (45" X 29")	7.5'
42"	8'
EQUIVALENT 54" (68" X 43")	10'
60"	9.5'
EQUIVALENT 60" (76" X 48")	11'

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG LEG BENCH ABB
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CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

LEGENDS, BENCHMARKS, AND ABBREVIATIONS

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 06/25/2025	

TOTAL SHEETS	SHEET NO.
37	2

GENERAL NOTES

GENERAL

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. ONE SET OF STAMPED APPROVED PLANS SHALL BE ON SITE AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

9. 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.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED OFF–SITE AREAS TO AT LEAST A CONDITION THAT EXISTED PRIOR TO CONSTRUCTION. RESTORE RIGHT–OF–WAY WITH SIX (6) INCHES OF TOPSOIL AND SOD.

11. STORM AND SANITARY SEWER LINES SHALL BE CLEANED OF ALL CONSTRUCTION DEBRIS AND SILT PRIOR TO VILLAGE INSPECTION.

12. OBSTRUCTIONS THAT ARE NOT APPROVED BY THE VILLAGE AND WHICH CURRENTLY EXIST IN THE RIGHT–OF–WAY SHALL BE REMOVED, WHICH INCLUDE ALL ROCKS AND BOULDERS.

13. ALL ELEVATIONS ARE BASED UPON NAVD 88 DATUM.

14. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AND ROADWAYS AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR BRIEF PERIODS OF INTERRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 24 HOURS IN ADVANCE OF THE INTERRUPTION OF ACCESS AND/OR SERVICES. THE NOTIFICATION WILL INCLUDE THE TIME AND DURATION OF THE INTERRUPTION. THE COST TO PROVIDE ACCESS, INCLUDING PLACEMENT, MAINTENANCE AND REMOVAL OF TEMPORARY AGGREGATE, SHALL BE INCLUDED IN THE COST OF STORM SEWER AND WATERMAIN INSTALLATION. (△1)

UTILITY NOTES

1. TRENCH BACKFILL SHALL BE PROVIDED UNDER AND WITHIN TWO FEET (2') OF ALL EXISTING AND PROPOSED PAVEMENT. CONCRETE CURB & GUTTER SHALL BE CONSIDERED A PART OF THE EXISTING AND PROPOSED PAVEMENT. TRENCH BACKFILL MATERIAL SHALL BE CA–6, GRADE 8, CRUSHED LIMESTONE, VIRGIN MATERIAL UNLESS OTHERWISE APPROVED.

2. ALL UNDERGROUND CONSTRUCTION REQUIRES CA–7, 8, 11 OR 13 GRAVEL OR LIMESTONE BEDDING AND BACKFILL MATERIAL. BEDDING BENEATH THE PIPE SHALL BE PLACED TO A THICKNESS EQUAL TO 1/4 OF THE OUTSIDE DIAMETER OF THE SEWER PIPE WITH A MAXIMUM THICKNESS OF 8 INCHES, BUT SHALL NOT BE LESS THAN 4 INCHES. BEDDING MATERIAL SHALL EXTEND TO THE SPRING LINE FOR RIGID PIPE OR 12" ABOVE TOP OF PVC PIPE.

3. IF REQUIRED, ALL TRENCHES SHALL BE DEWATERED PRIOR TO LAYING ANY PIPE OR JOINTING. TRENCHES SHALL BE DEWATERED TO MAINTAIN THE WATER LEVEL BELOW THE BASE OF THE BEDDING.

4. STRUCTURES SHALL HAVE A MAXIMUM OF TWELVE INCHES (12") OF ADJUSTMENT RINGS WITH ANY COMBINATION UP TO A MAXIMUM OF THREE (3) RINGS.

5. THE CONTRACTOR SHALL MARK LOCATION OF THE ENDS, IF NECESSARY, OF ANY SANITARY, WATER, AND STORM SERVICES WITH BURIED 4"X 4" WOOD POSTS EXTENDING A MINIMUM OF THREE (3) FEET OUT OF THE GROUND AND PAINTED RED, BLUE, AND GREEN RESPECTIVELY, WITH APPROPRIATE SIGNS ATTACHED STATING "CAUTION B–BOX DO NOT REMOVE UNTIL LANDSCAPING IS COMPLETE."

6. A MINIMUM TEN FEET (10') HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATERMAIN AND SEWER OR DRAIN LINES UNLESS PRECLUDED BY LOCAL CONDITIONS. WHEN THE WATERMAIN IS LOCATED CLOSER THAN TEN FEET (10') HORIZONTALLY OR THE INVERT OF THE WATERMAIN IS LOCATED CLOSER THAN EIGHTEEN INCHES (18") VERTICALLY ABOVE THE CROWN OF ANY SEWER OR DRAIN LINE, THEN:
   A. THE SEWER OR DRAIN LINE SHALL BE CONSTRUCTED OF PIPE EQUIVALENT TO WATERMAIN STANDARDS AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS IN ACCORDANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (I.E.P.A.) REQUIREMENTS AND SEWER AND THE LATEST EDITION OF SEWER AND WATER STANDARDS.
   B. WHEN A WATERMAIN IS CROSSING OVER A SEWER OR DRAIN LINE CLOSER THAN EIGHTEEN INCHES (18") VERTICALLY ABOVE THE CROWN OF THAT SEWER OR DRAIN LINE, THEN THAT SEWER OR DRAIN LINE SHALL BE CONSTRUCTED ACCORDING TO THE REQUIREMENTS LISTED IN ITEM "A" ABOVE.
   C. IF THE WATERMAIN PASSES UNDER A SEWER OR DRAIN LINE, THE FOLLOWING CONDITIONS SHALL BE MET: A VERTICAL SEPARATION OF EIGHTEEN INCHES (18") BETWEEN THE INVERT OF THE SEWER OR DRAIN LINE AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WITH SUPPORT PROVIDED FOR THE SEWER OR DRAIN LINE(S) TO PREVENT ANY MOVING OR SETTLING, RUPTURE OR BREAKING, AND SEWER OR DRAIN LINE SHALL BE CONSTRUCTED AS DESCRIBED IN ITEM (4) ABOVE.

7. THE COST OF ALL REQUIRED TESTING OF UNDERGROUND UTILITIES SHALL BE INCIDENTAL TO THE CONSTRUCTION COST OF THE SAME.

8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, THE SEWER SHALL BE CIRCULAR SAW–CUT BY PROPER TOOLS ("SEWER–TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB–WYE SADDLE OR HUB–TEE SADDLE.

9. PROTECT AND/OR COVER ALL PIPES AND UNDERGROUND STRUCTURES UNTIL FINAL GRADING, PAVING AND LANDSCAPING ARE COMPLETE.

10. FOR MODIFICATION OR REPAIR OF ALL SEWERS; ADDITION OF, OR REPAIR OF, SEWER CLEAN OUTS, NON SHEAR COUPLINGS SHALL BE USED IN CONNECTION OF SEWER PIPES WITH PRIOR APPROVAL FROM VILLAGE ENGINEERING DIVISION OF THE DEPARTMENT OF PUBLIC WORKS.

PAVING NOTES

1. BASE COURSE SHALL BE AGGREGATE BASE COURSE, TYPE B, CONFORMING TO THE STANDARD SPECIFICATIONS (SEE PLANS FOR THICKNESS). MATERIAL SHALL BE CRUSHED LIMESTONE, GRADE 8 OR GRADE 9, VIRGIN MATERIAL OR VILLAGE APPROVED.

2. HOT MIX ASPHALT (HMA) PAVEMENT SHALL BE CONSTRUCTED USING HOT–MIX ASPHALT BINDER COURSE, IL–19.0, N50 AND HOT–MIX ASPHALT SURFACE COURSE, MIX "C", N50 MATERIAL.

3. ALL REMOVAL ITEMS SHALL BE SAW–CUT FULL DEPTH PRIOR TO THE COMMENCEMENT OF THE REMOVAL PROCESS.

4. CURB AND GUTTER, BARRIER CURB, SIDEWALK, AND DRIVEWAYS SHALL BE A SIX (6) BAG MIX PORTLAND CEMENT CONCRETE (PCC) WITH AIR ENTRAINMENT CONTENT BETWEEN 5 AND 8%. MAXIMUM ALLOWABLE SLUMP IS FOUR (4) INCHES. CURING COMPOUND SHALL BE WHITE PIGMENTED AND APPLIED AFTER FINISHING PER IDOT SPECIFICATIONS. LOCATIONS OF WATER AND SANITARY SEWER SERVICE LINES SHALL BE CLEARLY MARKED ON ALL NEW CURBS.

5. SAW CUT EXISTING CURB AT LIMIT OF THE WORK AND REPLACE WITH DEPRESSED CURB AS REQUIRED. DRILL AND DOWEL ALL NEW CURB, INCLUDING DEPRESSED CURB TO EXISTING AS REQUIRED.

6. A 3/4 INCH FIBER EXPANSION JOINT SHALL BE INSTALLED WHEN THE CURB ABUTS A SIDEWALK, EXISTING CURB, OR ANY OTHER EXISTING CONCRETE PAVEMENT. 9) CURB AND GUTTER AND BARRIER CURB SHALL HAVE SAWED CONTRACTION JOINTS AT MAXIMUM INTERVALS OF TWENTY (20) FEET AND 3/4 INCH FIBER EXPANSION JOINT WITH TWO (2) OILED AND CAPPED ONE (1) INCH SMOOTH EPOXY COATED DOWEL BARS AT MAXIMUM INTERVALS OF FIFTY (50) FEET.

7. ALL DIMENSIONS FOR CURBS ARE TO BE BACK OF CURB, UNLESS OTHERWISE SPECIFIED.

STORM SEWER NOTES

1. ALL STORM STRUCTURES ARE TO HAVE CLOSED LIDS UNLESS SPECIFIED AS HAVING OPEN LIDS (O.L.). ALL CLOSED LIDS SHALL HAVE THE WORDS "VILLAGE OF WHEELING – STORM" CASTED IN IT AS PER STANDARD DETAIL.

2. RIM GRADES FOR STORM SEWER STRUCTURES LOCATED WITHIN THE CURB AND GUTTER ARE FLOW LINE ELEVATIONS. ELEVATIONS OF FLARED END SECTIONS SHALL BE INTERPRETED AT THE INVERT OF THE FLARED END SECTION.

3. A MAXIMUM ADJUSTMENT OF TWELVE INCHES (12") OR THREE (3) CONCRETE ADJUSTING RINGS WILL BE PERMITTED FOR ANY STRUCTURE.

4. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND ELEVATION OF EXISTING STORM SEWERS AND STRUCTURES TO BE CONNECTED PRIOR TO ORDERING STORM SEWER PIPE AND STRUCTURES. THERE SHALL BE NO ADDITIONAL COMPENSATION DUE TO FIELD CONDITIONS DIFFERENT THAN SHOWN ON PLANS.

WATER MAIN NOTES

1. ALL WATER MAINS SHALL BE PRESSURE TESTED PER REQUIREMENTS OF THE VILLAGE OF WHEELING. LEAKAGE TEST METHOD SHALL BE USED TO PRESSURE TEST THE WATER MAIN. THE PRESSURE SHALL BE 150 PSI AND 200 PSI HELD FOR 2 HOURS FOR DOMESTIC WATER AND FIRE SUPPRESSION LINE, RESPECTIVELY.

2. 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.

3. ALL WATER MAINS TO BE DUCTILE IRON PIPE, C900 OR C909 PVC. DUCTILE IRON PIPE PER ANSI A21.51 (AWWA C151), CLASS 52, WITH "PUSH ON" OR MECHANICAL JOINT AS REQUIRED BY THE VILLAGE OF WHEELING. PIPE TO BE CEMENT LINED PER ANSI A21.4 (AWWA C104). PVC SDR 18 AWWA C900 RESTRAINED JOINT PIPE CONFORMING TO AWWA C900–07.

4. THRUST BLOCKS MADE OF PORTLAND CEMENT CONCRETE (PCC) OF AT LEAST 12 INCHES THICK MUST BE USED TO PREVENT MOVEMENT AT BENDS AND FITTINGS. ALL BENDS OF 22 ½ DEGREES OR GREATER, TEES AND PLUGS SHALL BE THRUST BLOCKED.

5. VILLAGE OF WHEELING PLUMBING AND ENGINEERING (847) 459–2620 SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO ALL WATER SERVICE WORK.

6. ALL FITTINGS SHALL BE RESTRAINED BY THRUST RESISTANT WEDGE, RETAINER GLANDS, MANUFACTURED WITH TORQUE LIMITING TWIST OFF NUTS.

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1–15–26 BY LFG/TB

AS-BUILT

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED – △1 PER ADDEND. #1 6/9/25 REVISED – REVISED – REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	GENERAL NOTES SCALE: AS NOTED PROJECT NO: 210838	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 06/25/2025	TOTAL SHEETS 37	SHEET NO. 3

P:\WHELV\210838–SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS–PLANS\210838–DUNHURST–COVER_GEN_DETS_PHASE 2.DWG GENERAL NOTES
Plotted: 2/6/2026 2:10 PM By: TBETTE
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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 0.0' 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 CONTRCTOR 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.

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

TECHNICAL GUIDANCE MANUAL

10/13/2022

MWRD GENERAL NOTES

STD. DWG. NO.18

PAGE NO. 19

AS-BUILT

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

MWRD NOTES

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 06/25/2025	

TOTAL SHEETS	SHEET NO.
37	4

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG MWRD NOTES
Plotted: 2/6/2026 2:10 PM By: TBEITE
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SUMMMARY OF QUANTITIES

NO.	SP	PAY ITEM	UNIT	QUANTITY
20101000		TEMPORARY FENCE	FOOT	600
20101200		TREE ROOT PRUNING	EACH	31
X2010410	*	TREE TRIMMING	EACH	31
20201200		REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	775
20800150		TRENCH BACKFILL	CU YD	5140
NA00001	*	EXPLORATORY EXCAVATION	CU YD	100
NA00005	*	PARKWAY RESTORATION	SQ YD	700
28000510		INLET FILTERS	EACH	40
42400800		DETECTABLE WARNINGS	SQ FT	16
NA00015		HOT-MIX ASPHALT SURFACE REMOVAL (FULL DEPTH)	SQ YD	2685
NA606005	*	PCC CURB AND GUTTER REMOVAL AND REPLACEMENT, TYPE M-3.12	FOOT	726
NA424002	*	PCC SIDEWALK REMOVAL AND REPLACEMENT, 5"	SQ FT	1050
NA00010	*	CLASS D PATCHES, 7"	SQ YD	3340
NA00011	*	CLASS D PATCHES, 8"	SQ YD	4090
NA00013	*	PCC DRIVEWAY PAVEMENT REMOVAL AND REPLACEMENT	SQ YD	65
NA00006	*	BRICK PAVER STOCKPILING	SQ YD	6
550A0050		STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	180
Z0056608	*	STORM SEWER (WATER MAIN QUALITY) 12 INCH	FOOT	299
550A0090		STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	9
Z0056612		STORM SEWER (WATER MAIN QUALITY) 18 INCH	FOOT	15
550A0410		STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	782
550A2560		STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24"	FOOT	178
550A4900		STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"	FOOT	407
550A2380		STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 30"	FOOT	121
Z0056635	*	STORM SEWER (WATER MAIN QUALITY) EQUIVALENT ROUND-SIZE 30 INCH	FOOT	498
550A0450		STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	183
550A2600		STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	FOOT	108
Z0056637	*	STORM SEWER (WATER MAIN QUALITY) EQUIVALENT ROUND-SIZE 36 INCH	FOOT	260
550A0470		STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	278
Z0056651	*	STORM SEWER (WATER MAIN QUALITY) EQUIVALENT ROUND-SIZE 54 INCH	FOOT	358
550A2440		STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 60"	FOOT	30
550A5530		STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 60"	FOOT	157
NA00012	*	STORM SEWER (WATER MAIN QUALITY) EQUIVALENT ROUND-SIZE 60 INCH	FOOT	217
55100300		STORM SEWER REMOVAL 8"	FOOT	127
55100400		STORM SEWER REMOVAL 10"	FOOT	95
55101200		STORM SEWER REMOVAL 24"	FOOT	160
55101800		STORM SEWER REMOVAL 42"	FOOT	32
56106400		ADJUSTING WATER MAIN 8"	FOOT	188
56103000		DUCTILE IRON WATER MAIN 6"	FOOT	5
56103100		DUCTILE IRON WATER MAIN 8"	FOOT	221
X5610653	*	ABANDON WATER MAIN AND APPURTENANCES	L SUM	1
NA00004	*	WATER SERVICE REPLACEMENT, 3/4" - LONG	EACH	38
X5620106	*	WATER SERVICE RECONNECTION	EACH	4
NA00016	*	TEMPORARY WATER SERVICE	L SUM	1
NA00007	*	WATER VALVES TO BE REMOVED AND REPLACED, 8"	EACH	1
56105000	*	WATER VALVES, 8"	EACH	2
56400825	*	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	1
60248900		VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3
60234200		INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	5
X6020235	*	CATCH BASINS, TYPE C, 2' DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	6
60200105		CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	9
60203805		CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2
60218400		MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	8
60218300		MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
60221100		MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4
60223800		MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
60223700		MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
60224446		MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
NA602244	*	MANHOLES, TYPE A, 7'-DIAMETER. 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1
60224459		MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4
NA00017	*	MANHOLES, TYPE A, 11'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
X1200043	*	PRECAST CONCRETE JUNCTION CHAMBER	EACH	2
NA00018	*	CONNECTION TO EXISTING STRUCTURE	EACH	8
NA00019	*	RECONNECT EXISTING STORM SEWER	EACH	14
60500040		REMOVING MANHOLES	EACH	3
60500050		REMOVING CATCH BASINS	EACH	4
60500060		REMOVING INLETS	EACH	5
NA593001	*	CONTROLLED LOW STRENGTH MATERIAL	CU YD	7
Z0017400	*	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	4
NA00020	*	MODIFIED CURB DRAINAGE STRUCTURE TO BE ADJUSTED (SPECIAL)	EACH	23
X0324878	*	SANITARY SERVICE ADJUSTMENT	EACH	21
NA00021	*	SANITARY SERVICE LINE REPAIR	EACH	10
X0327195	*	CONCRETE PIPE CRADLE	EACH	2
X5510310	*	SANITARY SEWER REMOVAL AND REPLACEMENT 10"	FOOT	36
NA00008	*	CONNECTION TO EXISTING SANITARY SEWER STRUCTURE OR PIPE	EACH	4
78000400		THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	36
78000650		THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	10

1

NO.	SP	PAY ITEM	UNIT	QUANTITY
NA00022	*	PRECONSTRUCTION VIDEO	L SUM	1
67100100		MOBILIZATION	L SUM	1
NA00023	*	CONSTRUCTION LAYOUT, STAKING, AND AS-BUILTS	L SUM	1
NA00024	*	TRAFFIC CONTROL AND PROTECTION	L SUM	1
NA00025	*	CONSTRUCTION CONTINGENCY	DOLLAR	50000

HIGHWAY STANDARDS

280001-07 TEMPORARY EROSION CONTROL SYSTEMS
424001-11 PERPENDICULAR RAMPS FOR SIDEWALKS
442201-03 CLASS C AND D PATCHES
602001-02 CATCH BASIN TYPE A
602011-02 CATCH BASIN TYPE C
602401-07 PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602402-03 PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER
602406-11 PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER
602411-09 PRECAST MANHOLE TYPE A 7' (2.13 m) DIAMETER
602416-09 PRECAST MANHOLE TYPE A 8' (2.44 m) DIAMETER
602506-03 PRECAST VALVE VAULT TYPE A 5' (1.52 m) DIAMETER
602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02 MANHOLE STEPS
604001-05 FRAME AND LIDS TYPE 1
606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08 TRAFFIC CONTROL DEVICES

DISTRICT ONE STANDARDS

BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13 TYPICAL PAVEMENT MARKINGS

CONSTRUCTION
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DATE 1-15-26 BY LFG/TB

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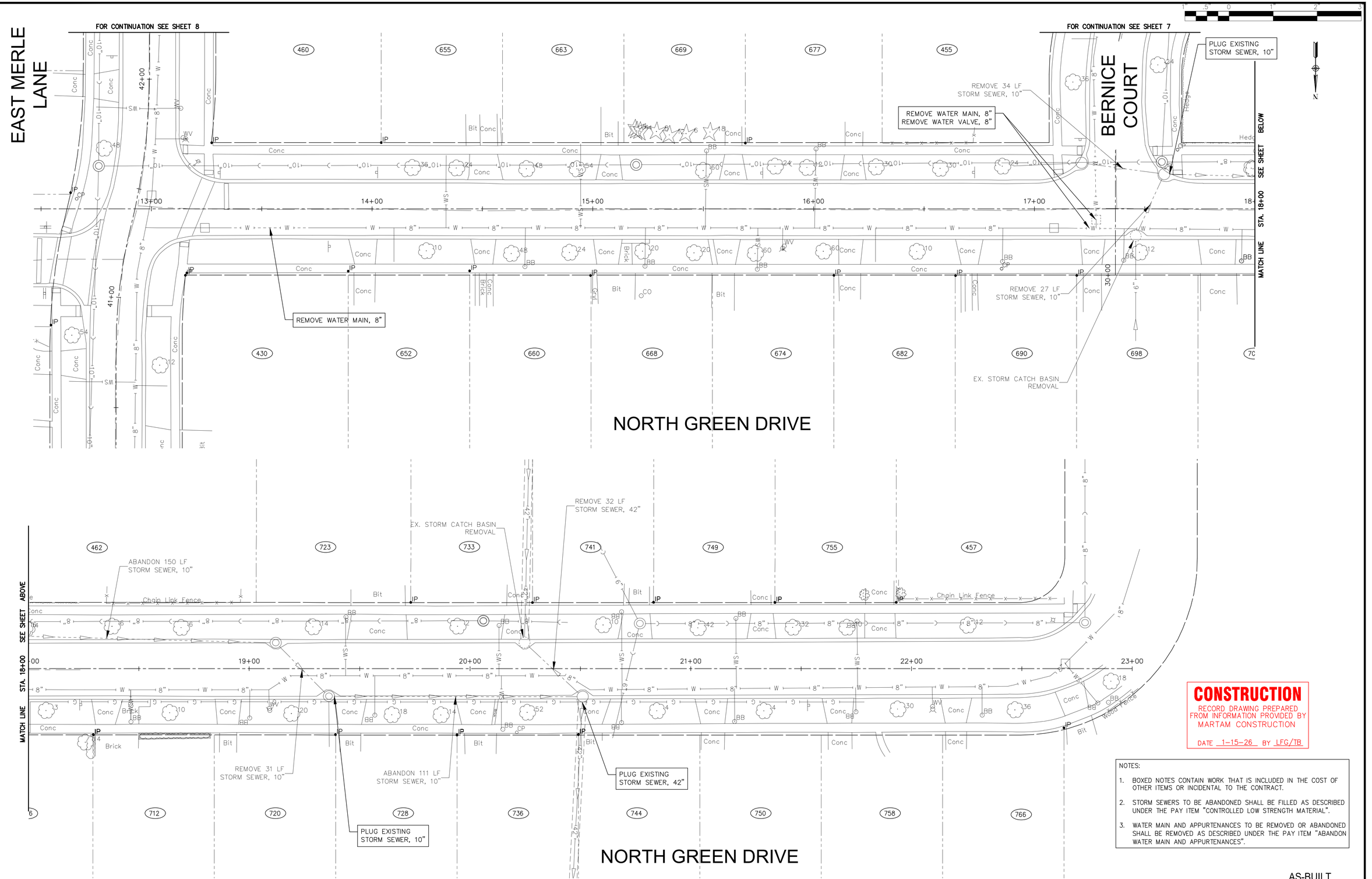

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RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION

DATE 1-15-26 BY LFG/TB

NOTES:

1. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.
2. STORM SEWERS TO BE ABANDONED SHALL BE FILLED AS DESCRIBED UNDER THE PAY ITEM "CONTROLLED LOW STRENGTH MATERIAL".
3. WATER MAIN AND APPURTENANCES TO BE REMOVED OR ABANDONED SHALL BE REMOVED AS DESCRIBED UNDER THE PAY ITEM "ABANDON WATER MAIN AND APPURTENANCES".

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VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

NORTH GREEN DRIVE DEMOLITION PLAN

SCALE: 1" = 20' PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 06/25/2025	

TOTAL SHEETS	SHEET NO.
37	6

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NORTH GREEN DRIVE

BERNICE COURT

WEST GREEN DRIVE

FOR CONTINUATION SEE SHEET 6

FOR CONTINUATION SEE SHEET 6

MATCH LINE STA. 35+00 SEE SHEET BELOW

MATCH LINE STA. 35+00 SEE SHEET ABOVE

WATER MAIN TO BE ABANDONED

WATER VALVE VAULT TO BE ABANDONED

REMOVE 29 LF STORM SEWER, 24"

REMOVE 12 LF STORM SEWER, 24"

REMOVE 99 LF STORM SEWER, 24"

EX. STORM CATCH BASIN REMOVAL

EX. STORM MANHOLE REMOVAL

EX. STORM MANHOLE REMOVAL

REMOVE FIRE HYDRANT

WATER MAIN TO BE ABANDONED

NOTES:

1. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.
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CONSTRUCTION

RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION

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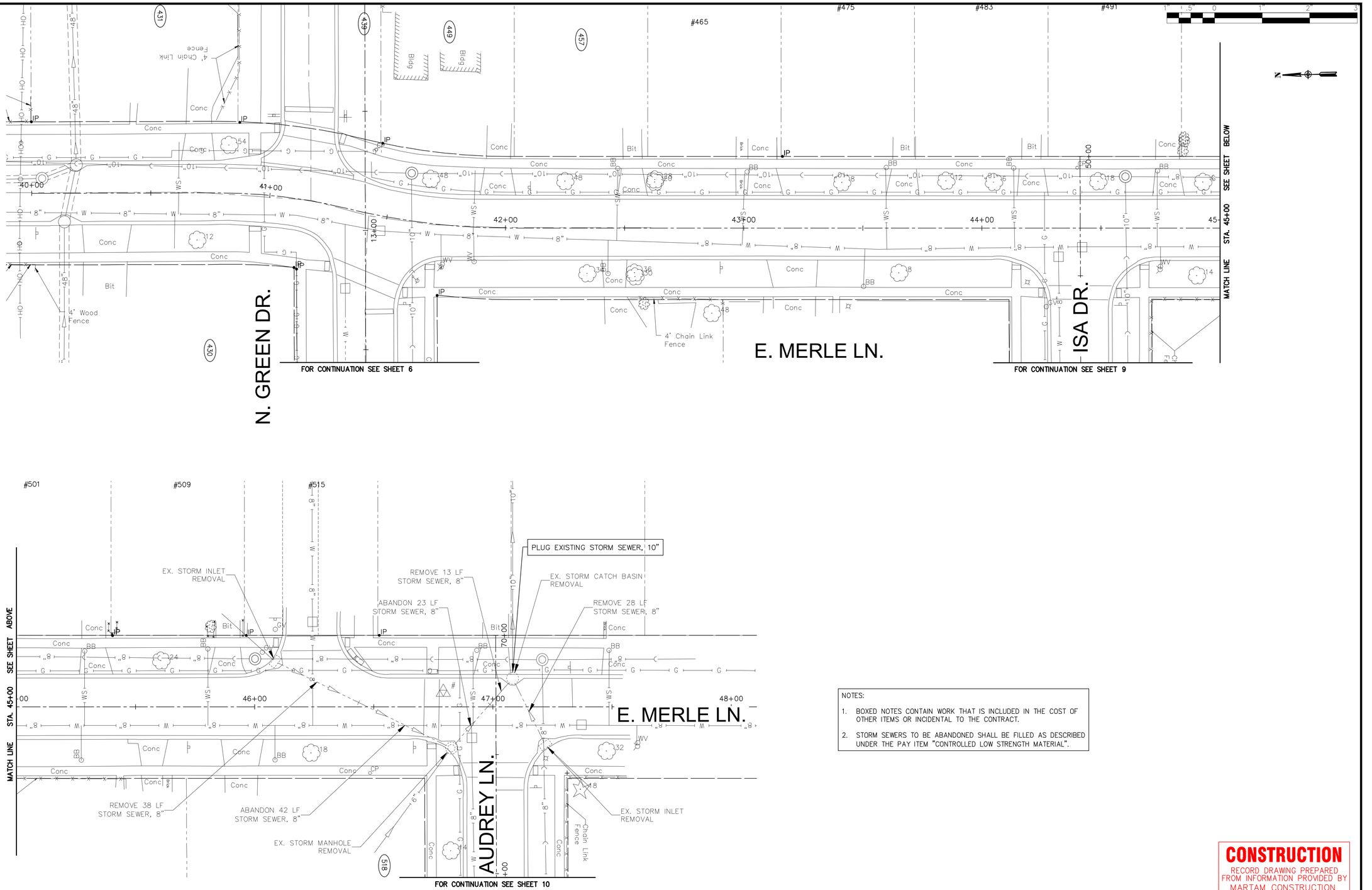
VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

BERNICE COURT DEMOLITION PLAN

SCALE: 1" = 20' PROJECT NO: 210838

	TOTAL SHEETS	SHEET NO.
DESIGNED – ML		
DRAWN – JJS		
CHECKED – MD	37	7
DATE – 06/25/2025		



NOTES:

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VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

EAST MERLE LANE DEMOLITION PLAN

SCALE: 1" = 20' | PROJECT NO: 210838

DESIGNED – ML	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	37	8
CHECKED – MD		
DATE – 06/25/2025		

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FOR CONTINUATION SEE SHEET 8

E. MERLE LN.

ISA DR.

MATCH LINE STA 55+00 SEE SHEET BELOW

FOR CONTINUATION SEE SHEET 8

NOTES:

1. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.
2. STORM SEWERS TO BE ABANDONED SHALL BE FILLED AS DESCRIBED UNDER THE PAY ITEM "CONTROLLED LOW STRENGTH MATERIAL".

ISA DR.

MATCH LINE STA. 55+00 SEE SHEET ABOVE

EX. STORM INLET REMOVAL

REMOVE 22 LF STORM SEWER, 8"

REMOVE 20 LF STORM SEWER, 24"

7" Brick Wall

PLUG EXISTING STORM SEWER, 24"

EX. STORM INLET REMOVAL

Chain Link Fence

CONSTRUCTION

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BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	ISA DRIVE DEMOLITION PLAN	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 06/25/2025
		REVISED –			
		REVISED –			
		REVISED –		SCALE: 1" = 20' PROJECT NO: 210838	TOTAL SHEETS: 37 SHEET NO.: 9

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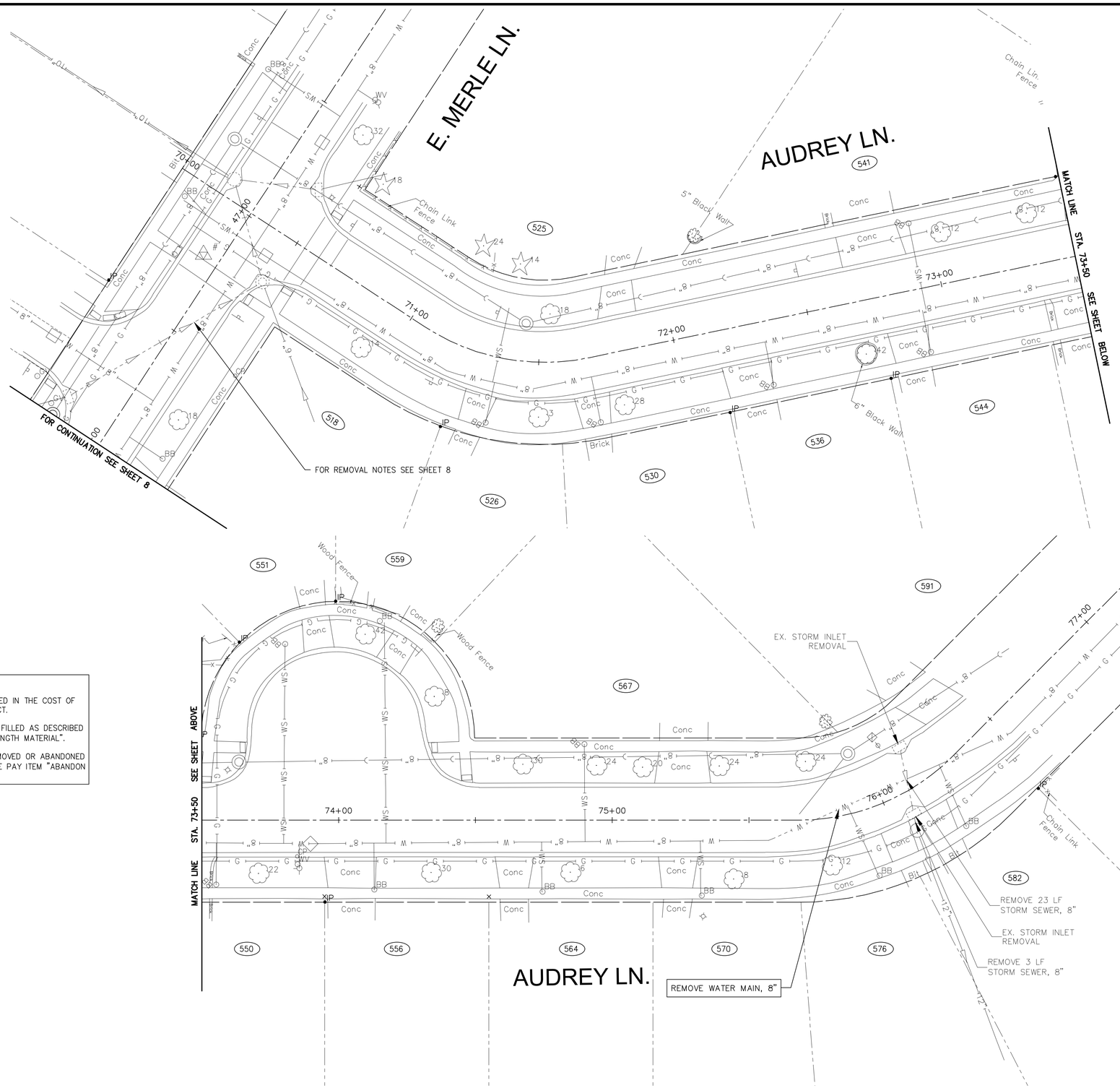

NOTES:

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VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

AUDREY LANE DEMOLITION PLAN

SCALE: 1" = 20' | PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 06/25/2025	

TOTAL SHEETS	SHEET NO.
37	10

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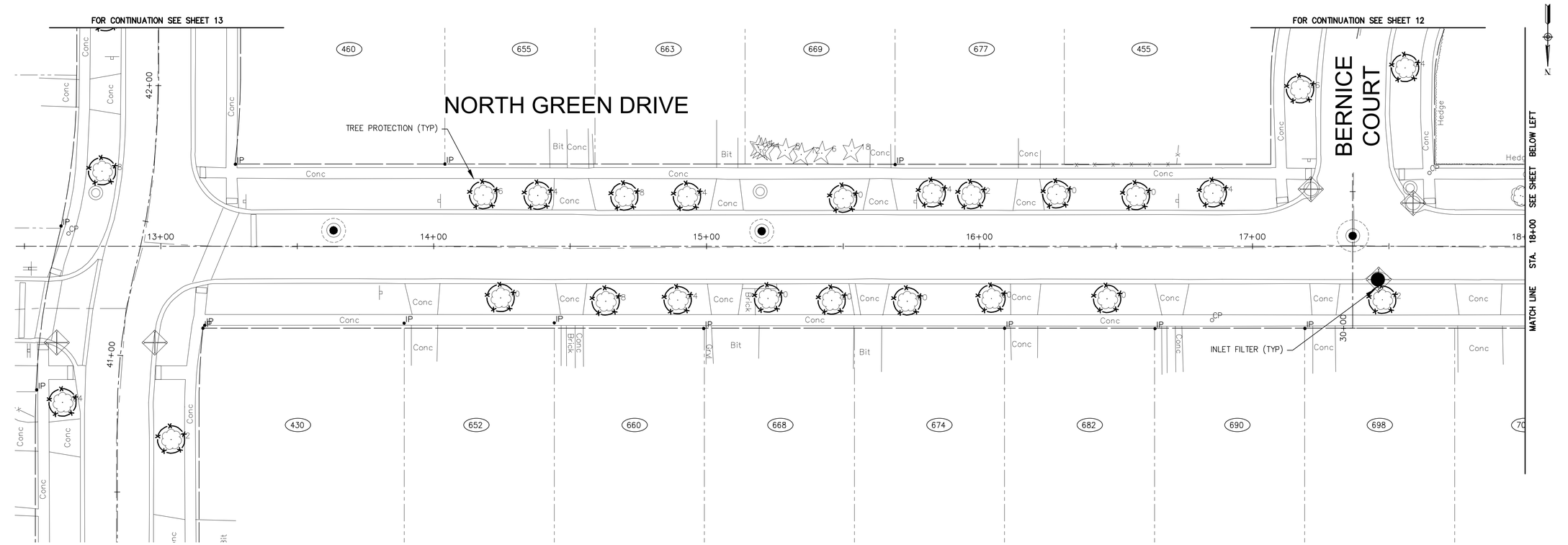

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	REVISED –

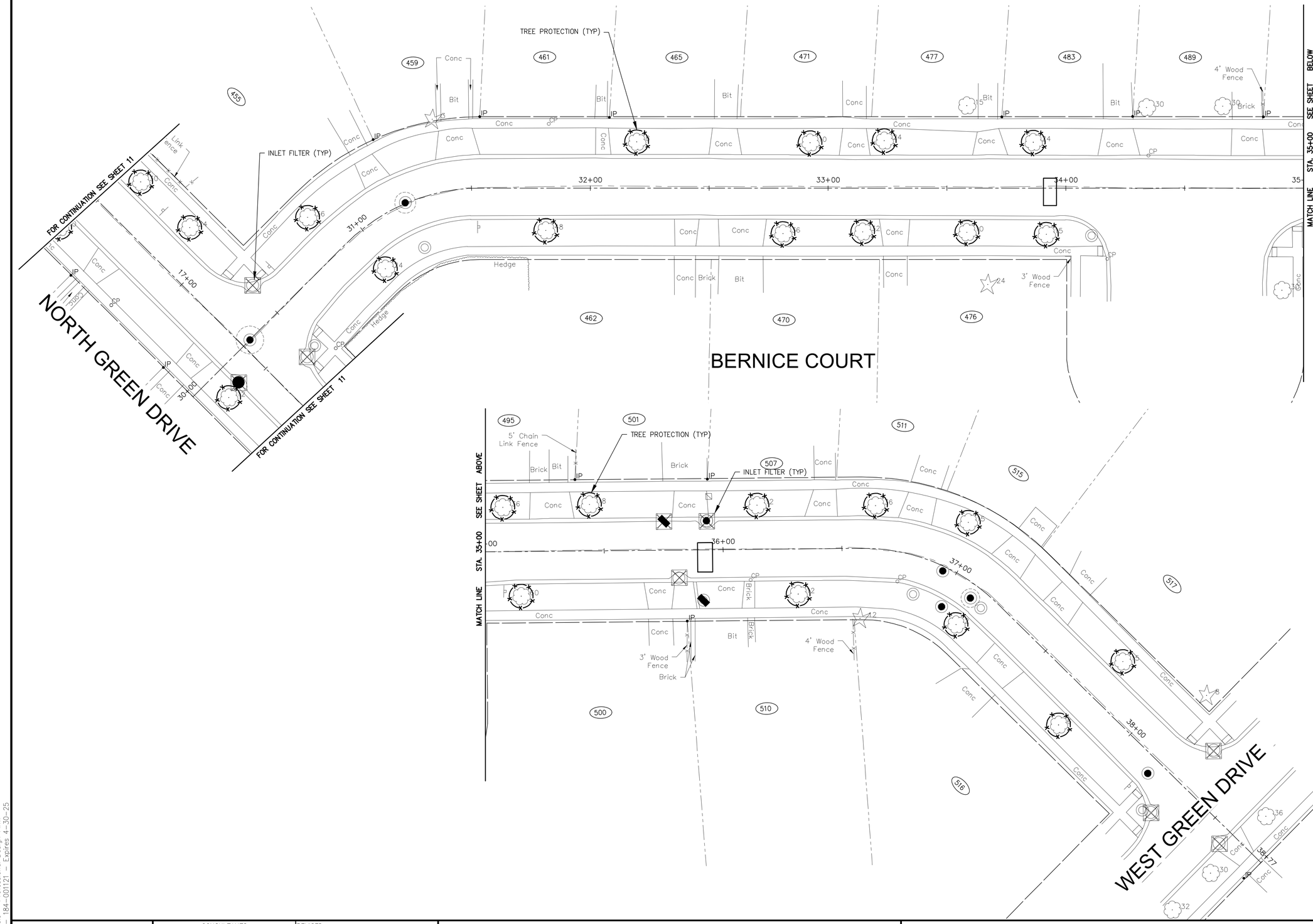
VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

NORTH GREEN DRIVE SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20' PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 06/25/2025	

TOTAL SHEETS	SHEET NO.
37	11



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	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

BERNICE COURT SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20' PROJECT NO: 210838

DESIGNED – ML	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	37	12
CHECKED – MD		
DATE – 06/25/2025		

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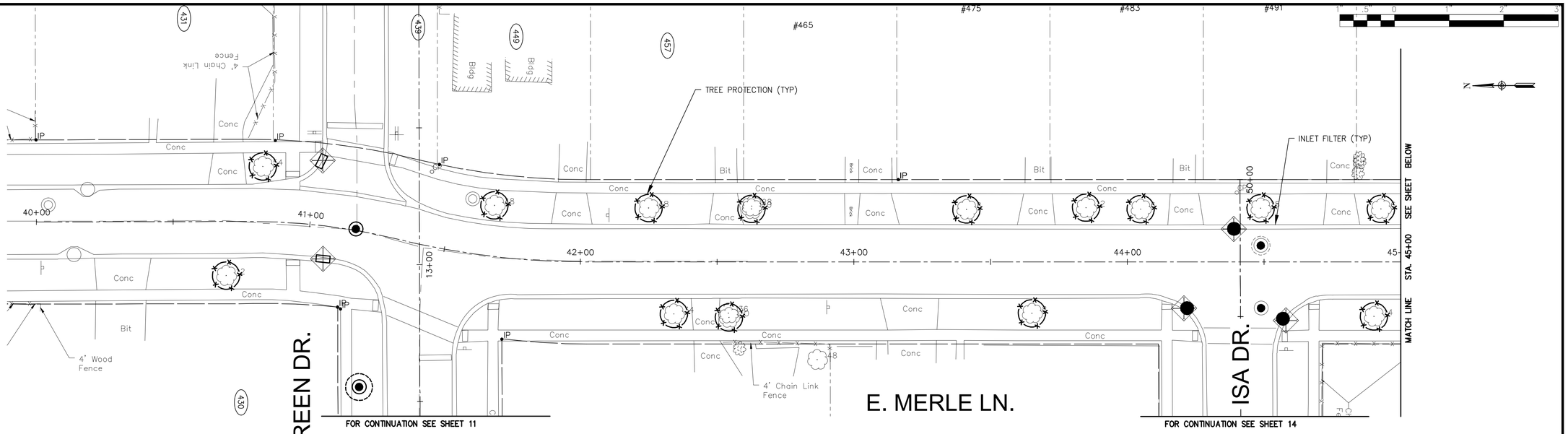

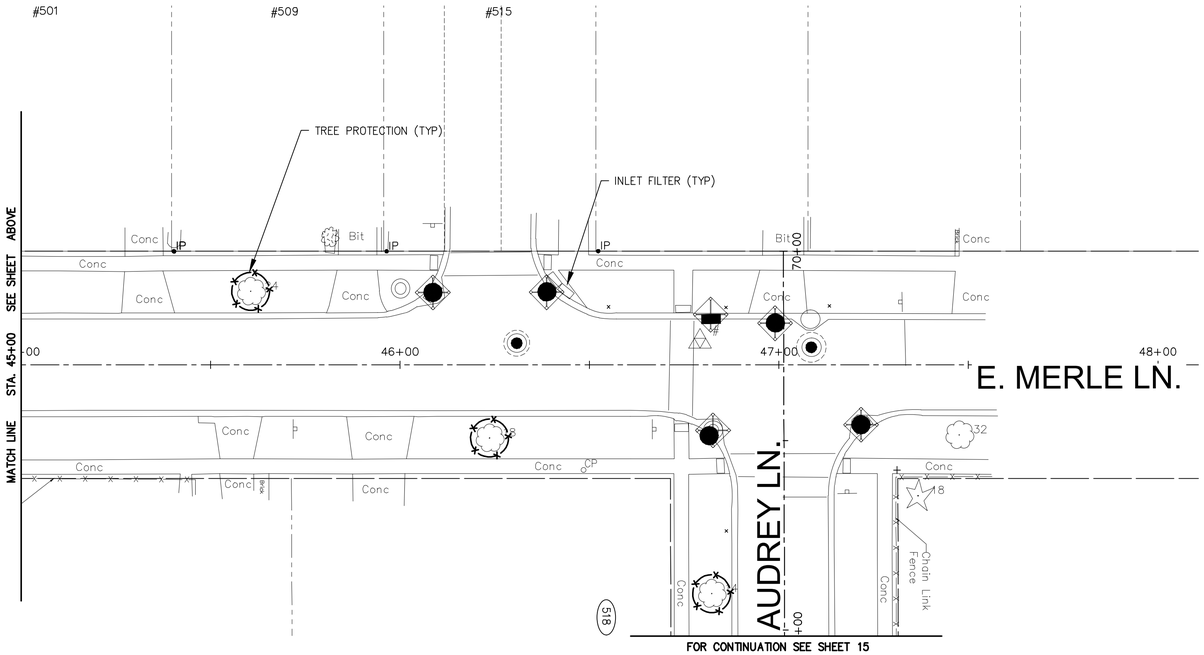

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	REVISED –

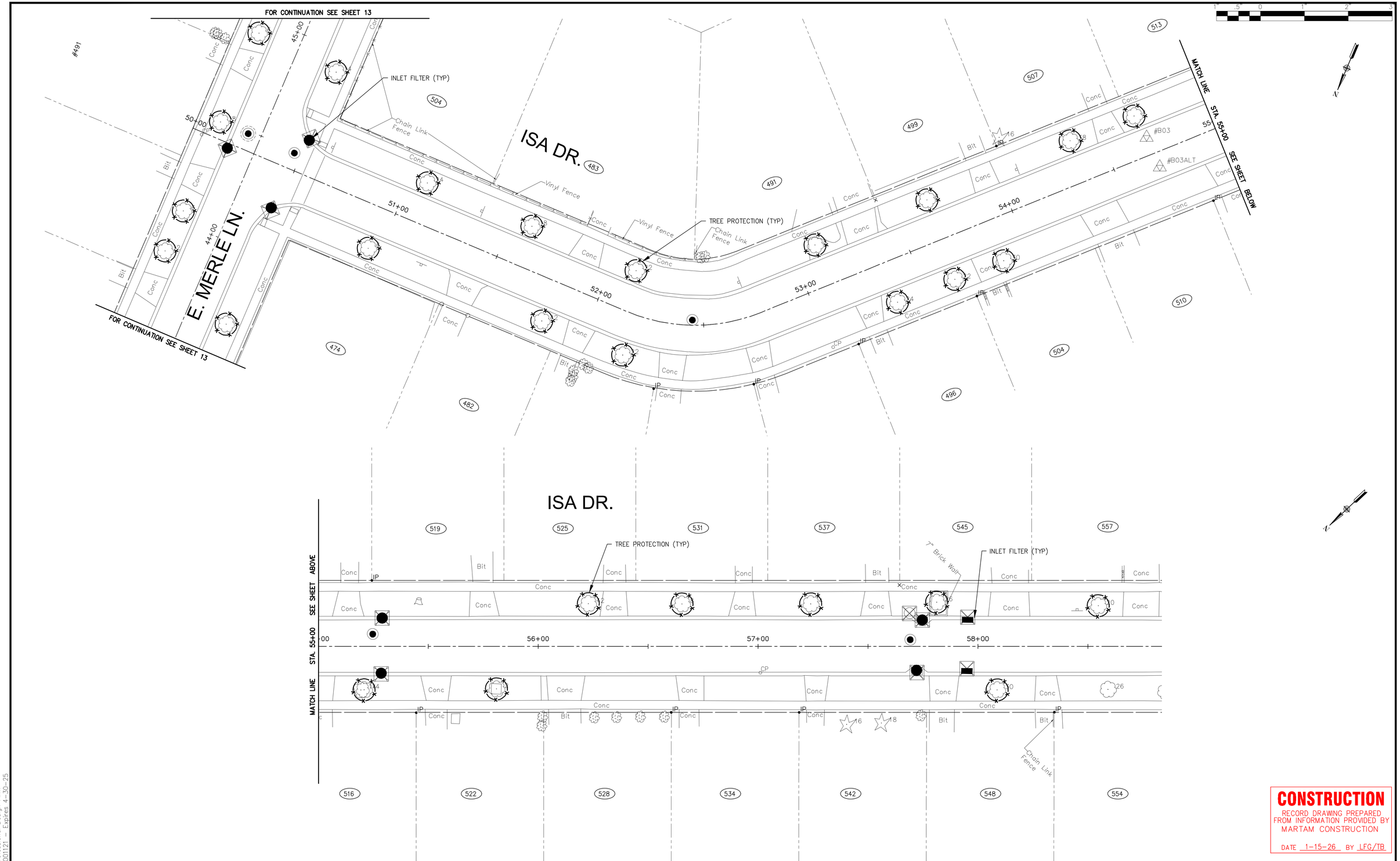
VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

EAST MERLE LANE SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20' | PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 06/25/2025	

TOTAL SHEETS	SHEET NO.
37	13



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		REVISED –			TOTAL SHEETS 37
		REVISED –			SHEET NO. 14
		REVISED –		SCALE: 1" = 20' PROJECT NO: 210838	

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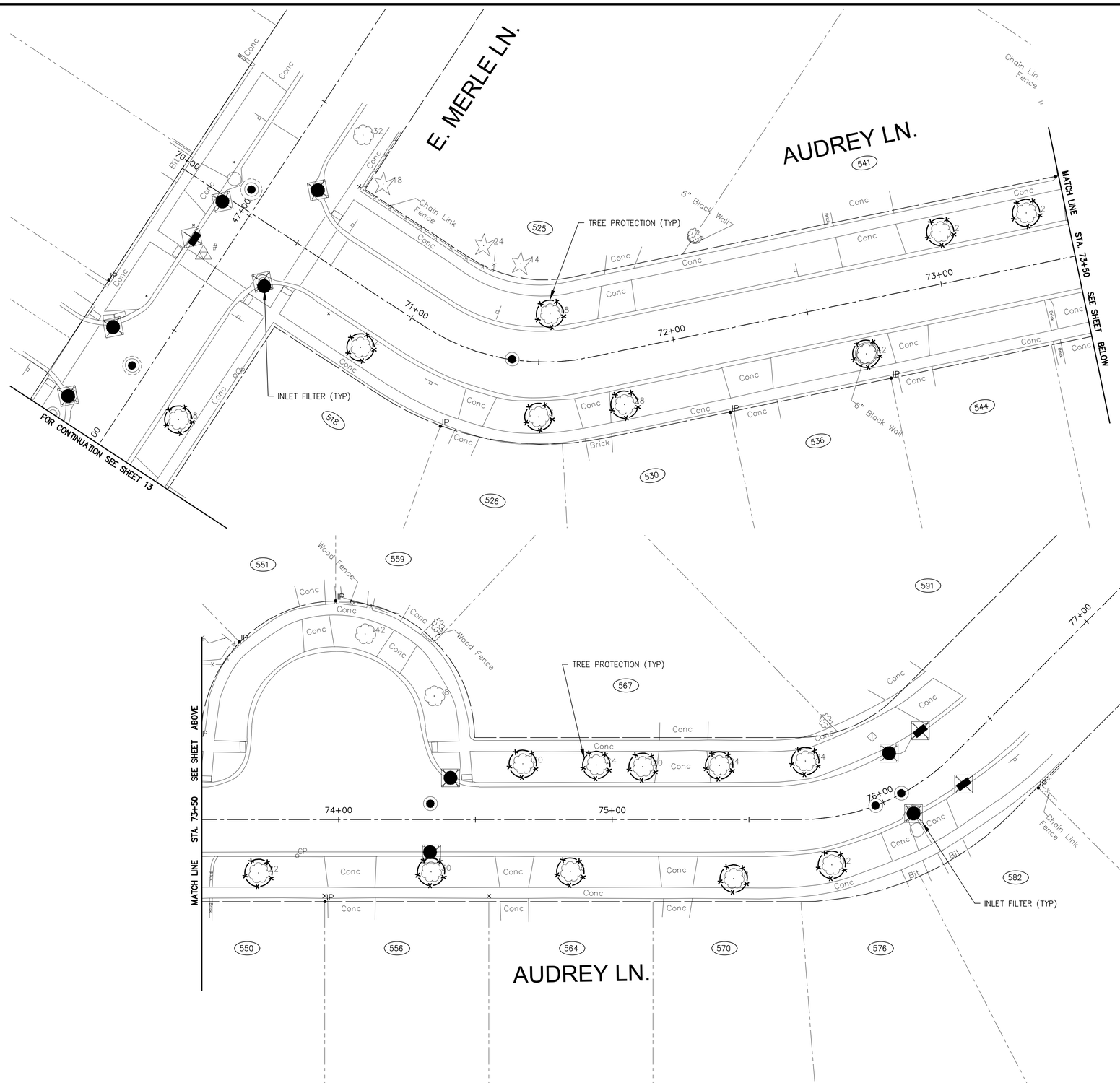

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		REVISED –			TOTAL SHEETS: 37
		REVISED –			SHEET NO.: 15
		REVISED –		SCALE: 1" = 20' PROJECT NO: 210838	

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FOR CONTINUATION SEE SHEET 20

EAST MERLE LANE

NORTH GREEN DRIVE

6" SANITARY SERVICE ADJUSTMENT (TYP.)

WATER SERVICE REPLACEMENT (TYP)

PR-ST-MH-08
STORM MANHOLE, 8' DIA.
STA. 13+~~63.28,~~ 5.75' L
62

PR-ST-MH-09
STORM MANHOLE, 8' DIA.
STA. 15+~~20.17,~~ 5.47' L
19

PR-ST-P-09

PR-ST-P-08

PR-ST-P-07

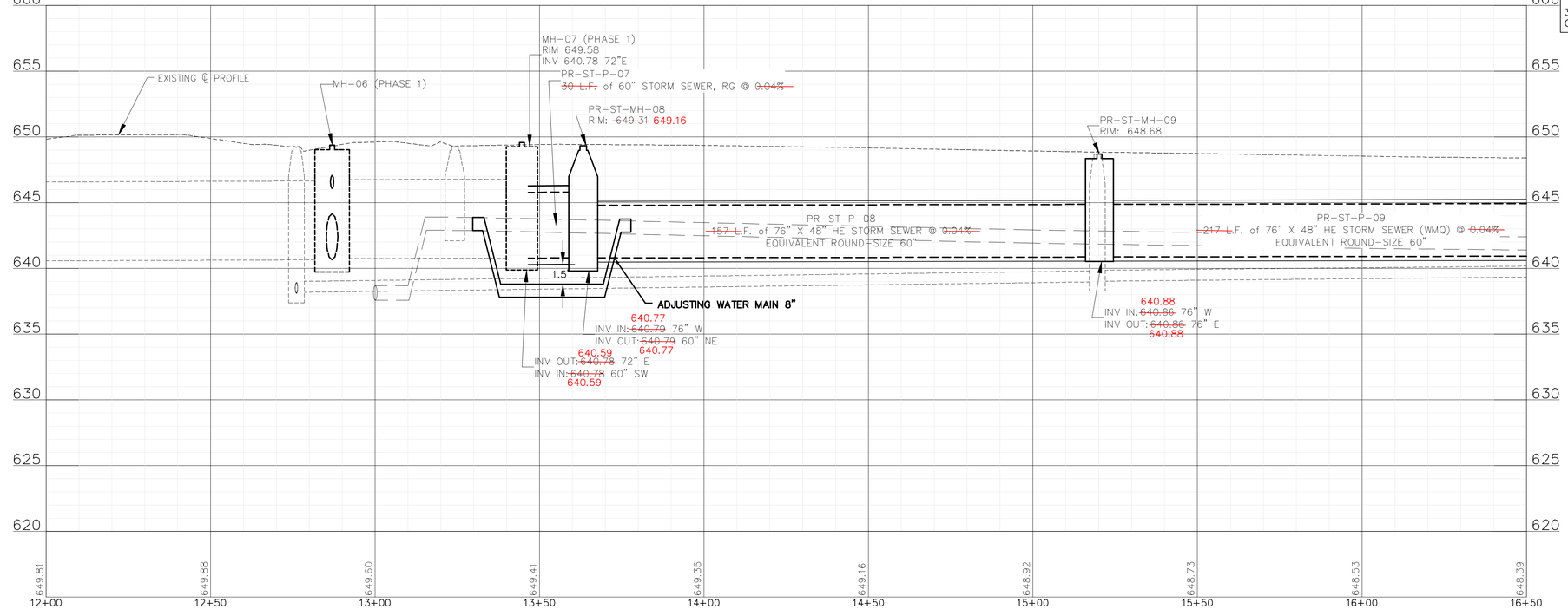
MH-07 (PHASE 1)

MH-06 (PHASE 1)

WATER MAIN 8"
(2) NON-PRESSURE CONNECTION, 8"
(4) 8" 45 DEG. VERT. BENDS
(1) 8" SLEEVES

CONNECTION TO EXISTING STRUCTURE

MATCH LINE STA. 16+50 SEE SHEET 17



NOTES:

1. CONTRACTOR TO PROTECT EXISTING CURB & GUTTER DURING TRENCHING AND STORM SEWER INSTALLATION. CURB AND GUTTER SHALL BE REPLACED WHERE SHOWN ON THE PLAN OR AS DETERMINED BY THE ENGINEER.

2. SANITARY SERVICES ARE NOT SHOWN. ALL SERVICE LOCATIONS SHALL BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. PORTIONS OF SANITARY SERVICES CROSSING TRENCHES THAT ARE DETERMINED BY THE ENGINEER TO BE REPLACED, SHALL BE REPLACED UNDER THE PAY ITEM "SANITARY SERVICE LINE REPAIR". SANITARY SERVICES IN ELEVATION CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPLACED AND ADJUSTED UNDER THE PAY ITEM "SANITARY SERVICE ADJUSTMENT".

3. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

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VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

NORTH GREEN DRIVE STA 12+00 TO STA 16+50 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	16
CHECKED – MD			
DATE – 06/25/2025			

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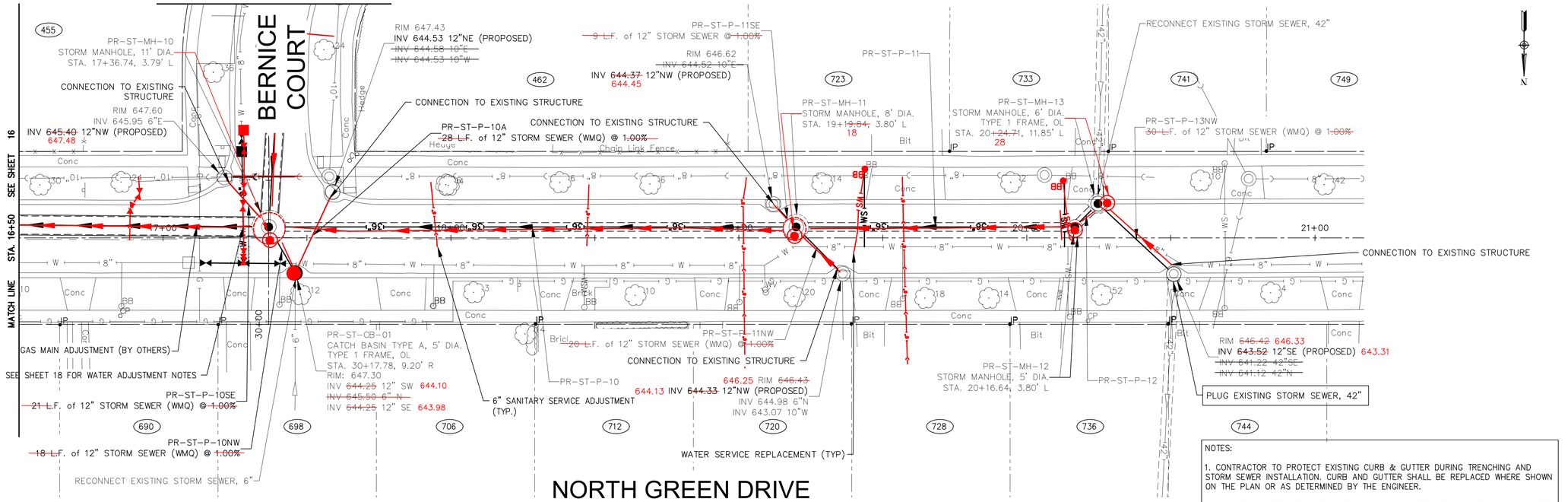
FOR CONTINUATION SEE SHEET 18



NOTES:

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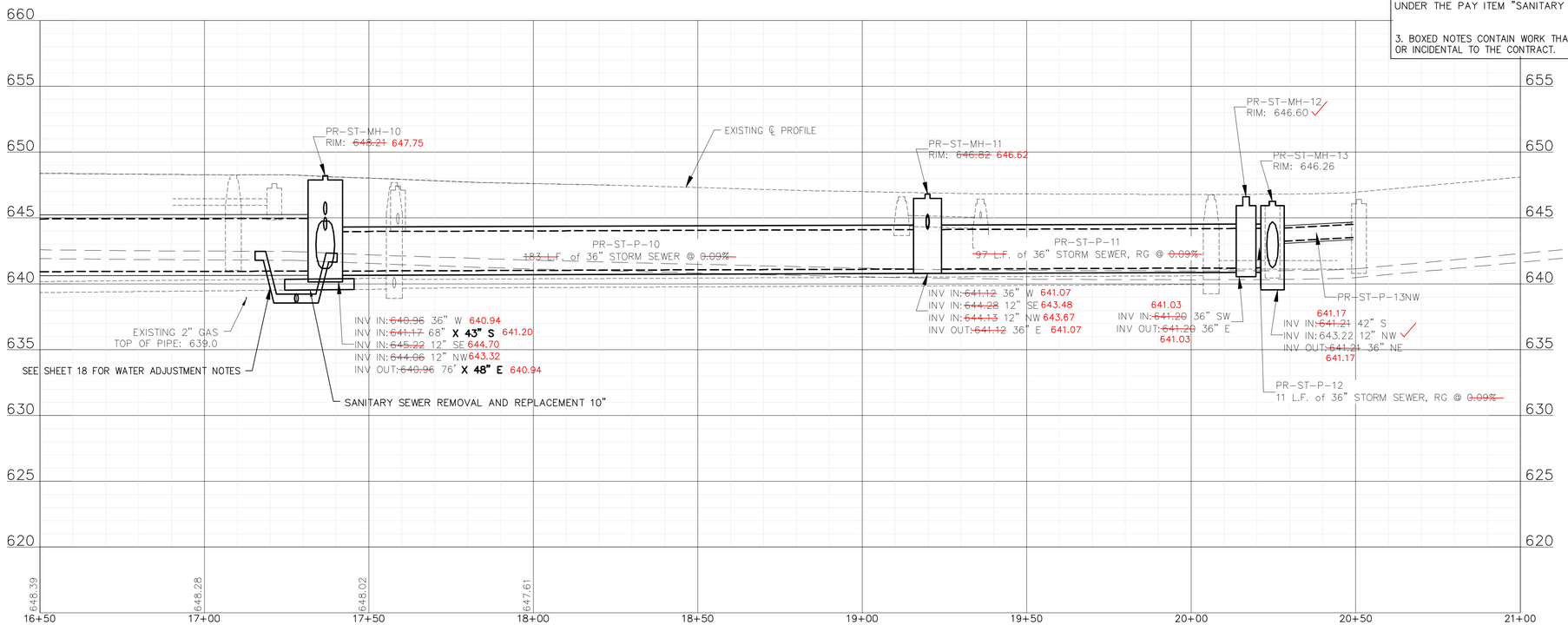
3. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.



CONSTRUCTION
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DATE 1-15-26 BY LFG/TB

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BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

NORTH GREEN DRIVE STA 16+50 TO STA 21+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	17
CHECKED – MD			
DATE – 06/25/2025			

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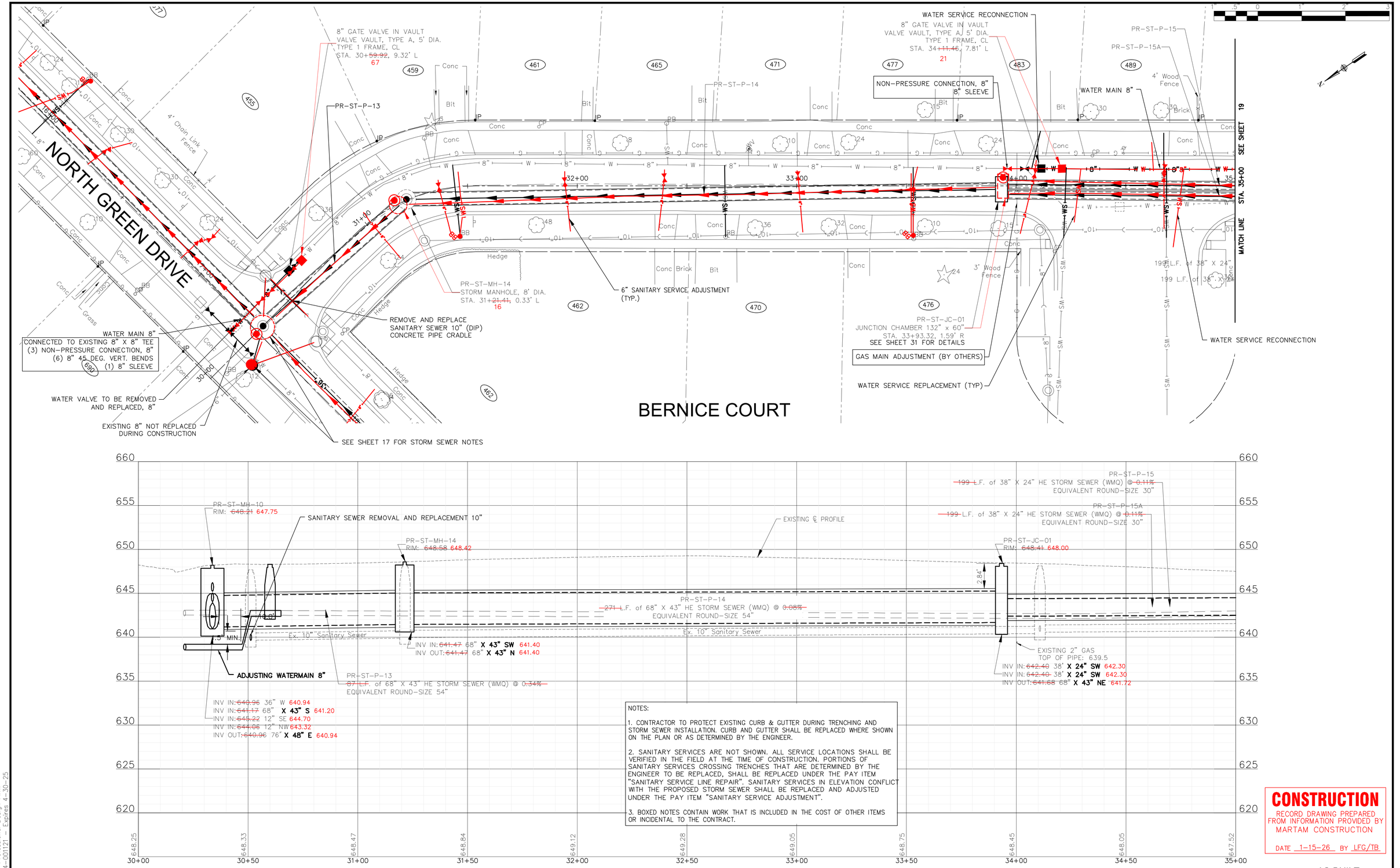

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CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
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	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

BERNICE COURT STA 30+00 TO STA 35+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	18
CHECKED – MD			
DATE – 06/25/2025			

P-ST-MH-16
STORM MANHOLE, 4' DIA.
TYPE 1 FRAME, OL
STA. 57+26.29, 288.41' R
RIM: ~~646.34~~ 646.33
INV ~~644.02~~ 12" NE 643.82
INV ~~643.05~~ 24" SE 642.92
INV ~~642.72~~ 24" NW 642.83

PR-ST-CB-02
CATCH BASIN TYPE C, 2' DIA.
TYPE 1 FRAME, OL
STA. 35+~~75.22~~, 12.16' L
RIM: 646.51 ✓
INV ~~644.17~~ 12" SW 644.14

PR-ST-JC-02
JUNCTION CHAMBER 132" X 60"
TYPE 1 FRAME, CL
STA. 35+92.43, 3.17' R
RIM: ~~646.94~~ 646.59
INV 642.61 38" **X 24" SW** ✓
INV 642.61 24" SE ✓
INV 642.61 24" NW ✓
INV ~~642.61~~ 38" **X 24" NE** 642.58
INV ~~642.61~~ 38" **X 24" NE** 642.58
SEE SHEET 31 FOR DETAILS

P-ST-MH-15
STORM MANHOLE, 7' DIA.
WITH 2 TYPE 1 FRAME, CL
RESTRICTOR PLATE
STA. 35+91.57, 21.26' R
RIM: 646.94
INV ~~643.34~~ 24" SW 642.62
INV ~~643.94~~ ~~8"~~ E 10" 644.23
INV ~~643.05~~ 24" SE 643.27
INV ~~641.39~~ 42" NW 641.78
SEE SHEET 37 FOR RESTRICTOR MANHOLE DETAIL

NOTES:

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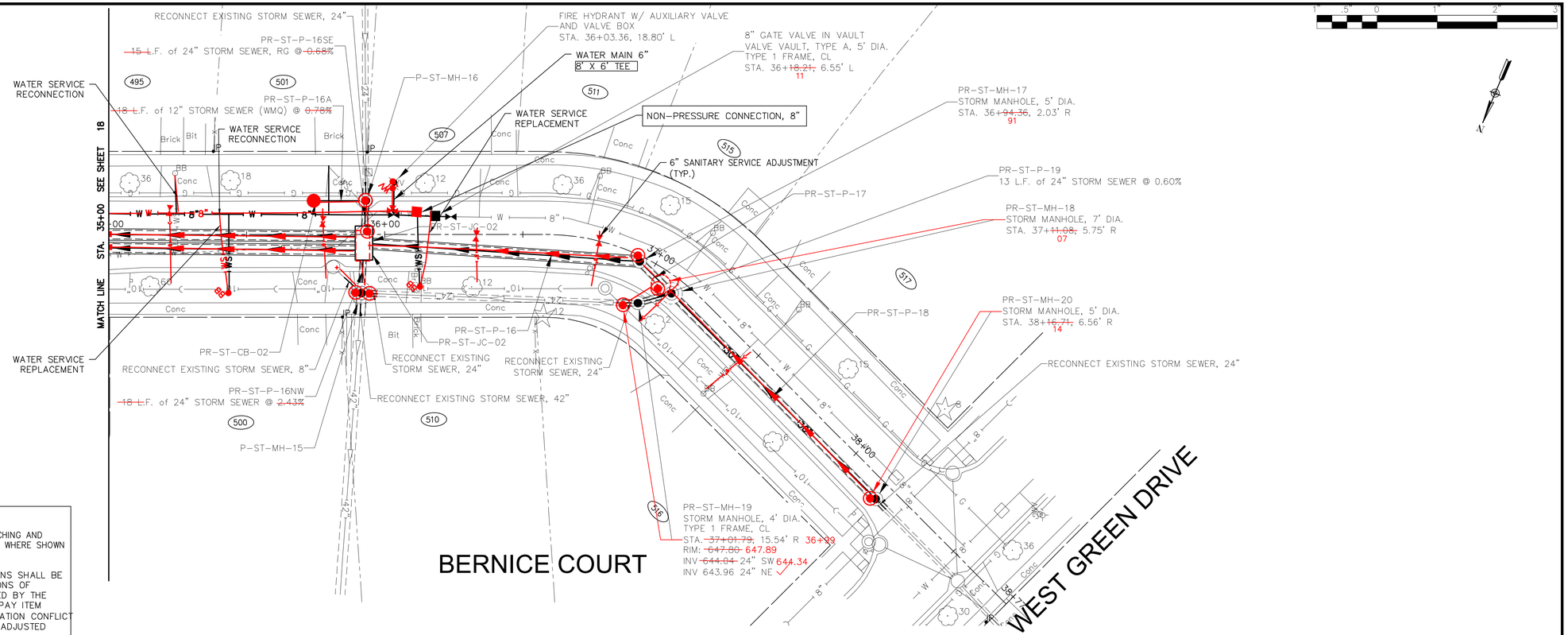

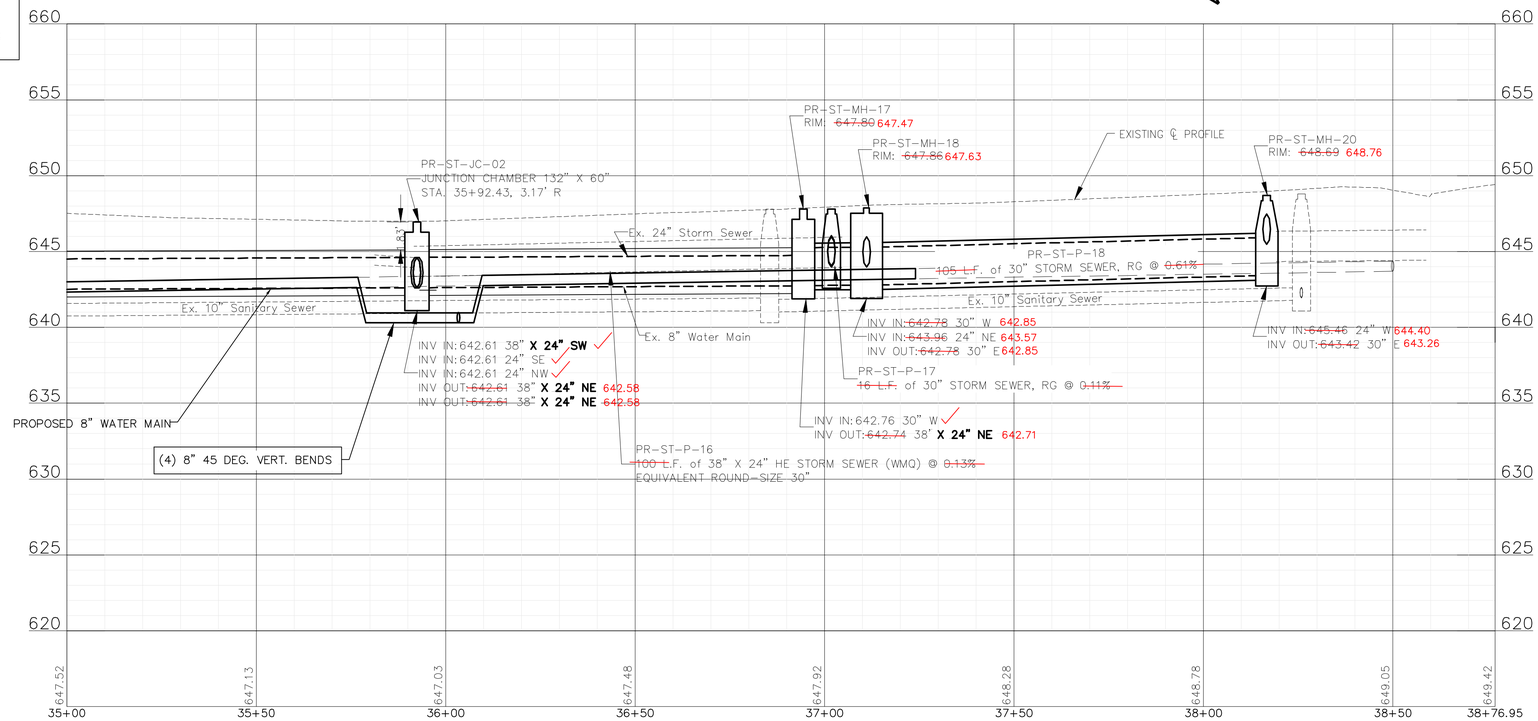

CONSTRUCTION
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BAXTER & WOODMAN consulting engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

BERNICE COURT STA 35+00 TO STA 39+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	19
CHECKED – MD			
DATE – 06/25/2025			

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CONSTRUCTION
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1" .5" 0 1" 2" 3"

495 501 511 515 500 510 516

PR-ST-P-16SE
~~15 L.F.~~ of 24" STORM SEWER (WMQ) @ ~~0.68%~~

PR-ST-P-16A
~~18 L.F.~~ of 12" STORM SEWER (WMQ) @ ~~0.78%~~

PR-ST-CB-02
CATCH BASIN TYPE C, 2' DIA.
TYPE 1 FRAME, OL
STA. 35+75.22, 12.16' L
RIM: 646.51
644.14 INV ~~644.17~~ 12" SW

P-ST-MH-16
STORM MANHOLE, 4' DIA.
TYPE 1 FRAME, OL
STA. 57+26.29, 288.41' R
RIM: ~~646.34~~ 646.33
INV ~~644.02~~ 12" NE 643.82
INV ~~643.05~~ 24" SE 642.92
INV ~~642.72~~ 24" NW 642.83

PR-ST-JC-02
JUNCTION CHAMBER 132" X 60"
TYPE 1 FRAME, CL
STA. 35+92.43, 3.17' R
RIM: ~~646.94~~ 646.59
INV 642.61 38" X 24" SW
INV 642.61 24" SE
INV 642.61 24" NW
INV ~~642.61~~ 38" X 24" NE 642.58
INV ~~642.61~~ 38" X 24" NE 642.58

PR-ST-P-16
~~100 L.F.~~ of 38" X 24" HE STORM SEWER (WMQ) @ ~~0.13%~~
EQUIVALENT ROUND-SIZE 30"

PR-ST-MH-17
STORM MANHOLE, 5' DIA.
TYPE 1 FRAME, CL
STA. ~~36+94.36,~~ 2.03' R +92
RIM: ~~647.80~~ 647.47
INV 642.76 30" W
INV ~~642.74~~ 38" X 24" NE 642.71

PR-ST-P-17
~~16 L.F.~~ of 30" STORM SEWER, RG @ ~~0.11%~~

PR-ST-MH-18
STORM MANHOLE, 7' DIA.
TYPE 1 FRAME, CL
STA. 37+~~11.08,~~ 5.75' R +05
RIM: ~~647.86~~ 647.63
INV ~~642.78~~ 30" W 642.85
INV ~~643.96~~ 24" NE 643.57
INV ~~642.78~~ 30" E 642.85

WATER SERVICE REPLACEMENT

PR-ST-P-15
~~199 L.F.~~ of 38" X 24" HE STORM SEWER (WMQ) @ ~~0.11%~~
EQUIVALENT ROUND-SIZE 30"

PR-ST-P-15A
~~199 L.F.~~ of 38" X 24" HE STORM SEWER (WMQ) @ ~~0.11%~~
EQUIVALENT ROUND-SIZE 30"

BERNICE COURT

6" SANITARY SERVICE ADJUSTMENT (TYP.)

18 L.F. of 24" STORM SEWER @ 2.43%

P-ST-MH-15
STORM MANHOLE, 7' DIA.
WITH 2 TYPE 1 FRAME, CL
RESTRICTOR PLATE
TYPE 1 FRAME, CL
STA. 35+91.57, 21.26' R
RIM: 646.94
INV ~~643.34~~ 24" SW 642.62
INV ~~643.94~~ 8" E 10" 644.23
INV ~~643.05~~ 24" SE 643.27
INV ~~641.39~~ 42" NW 641.78
SEE SHEET 37 FOR RESTRICTOR MANHOLE DETAILS

PR-ST-MH-19
STORM MANHOLE, 4' DIA.
TYPE 1 FRAME, CL
STA. ~~37+01.79,~~ 15.54' R
36+99 RIM: ~~647.80~~ 647.89
644.34 INV ~~644.04~~ 24" SW
INV 643.96 24" NE

PR-ST-P-19
~~13 L.F.~~ of 24" STORM SEWER @ ~~0.60%~~

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BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	BERNICE COURT STA 35+50 TO STA 38+00 STORM SEWER DETAIL	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 06/25/2025
		REVISED –			
		REVISED –			
		REVISED –		SCALE: 1" = 10' PROJECT NO: 210838	TOTAL SHEETS: 37 SHEET NO.: 19A

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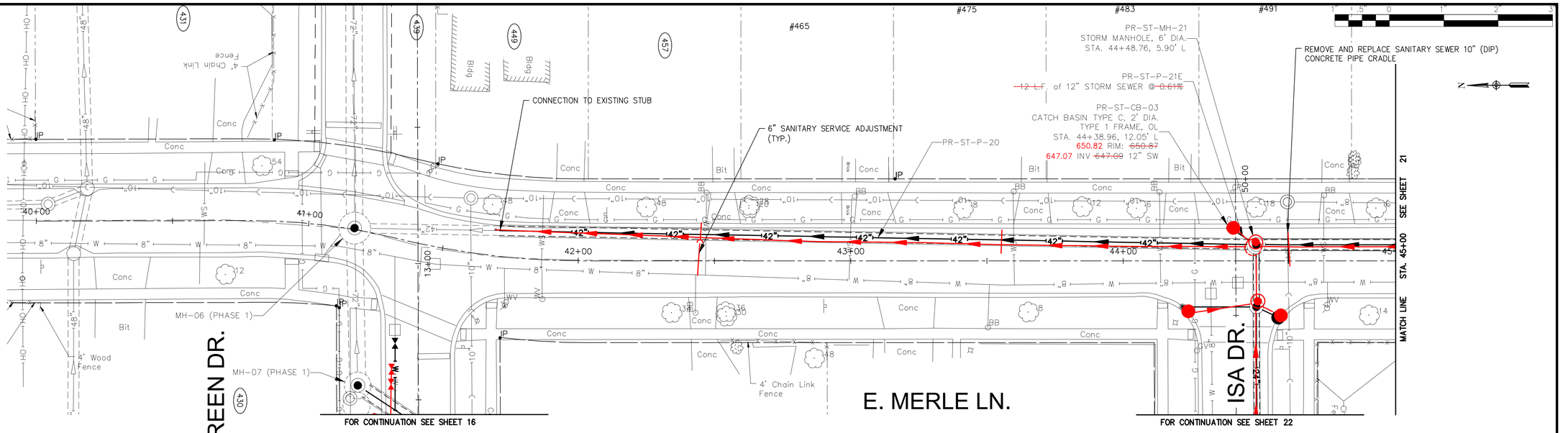

NOTES:

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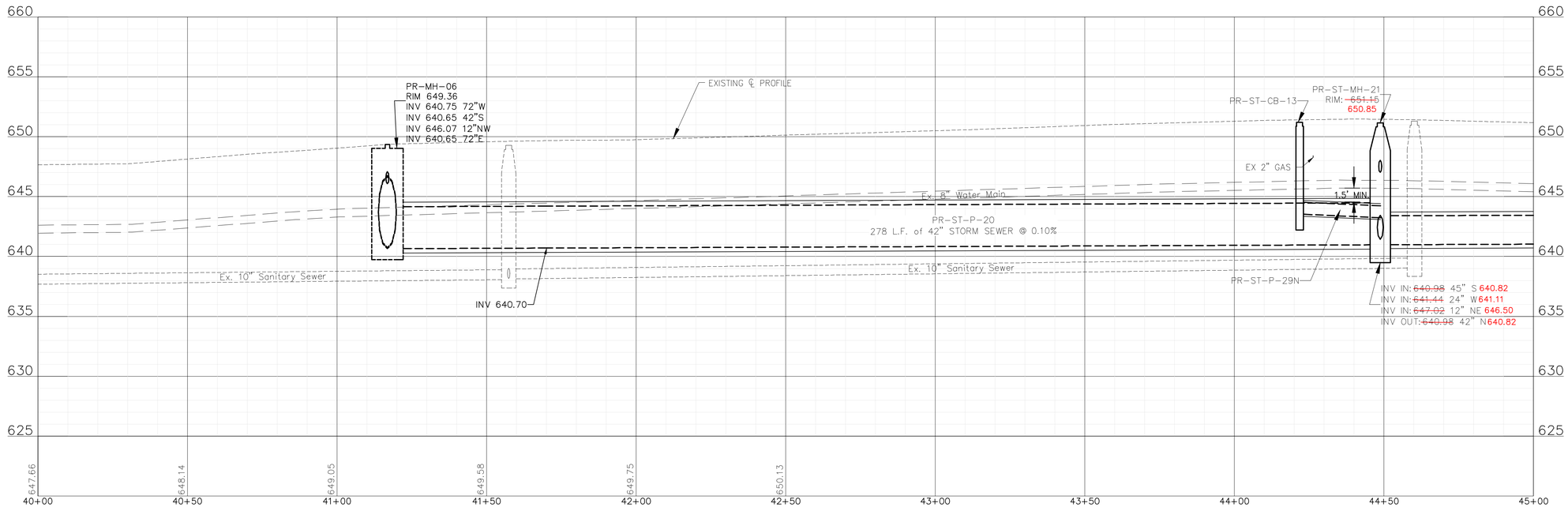
CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB



AS-BUILT

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

EAST MERLE LANE STA 40+00 TO STA 45+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	20
CHECKED – MD			
DATE – 06/25/2025			

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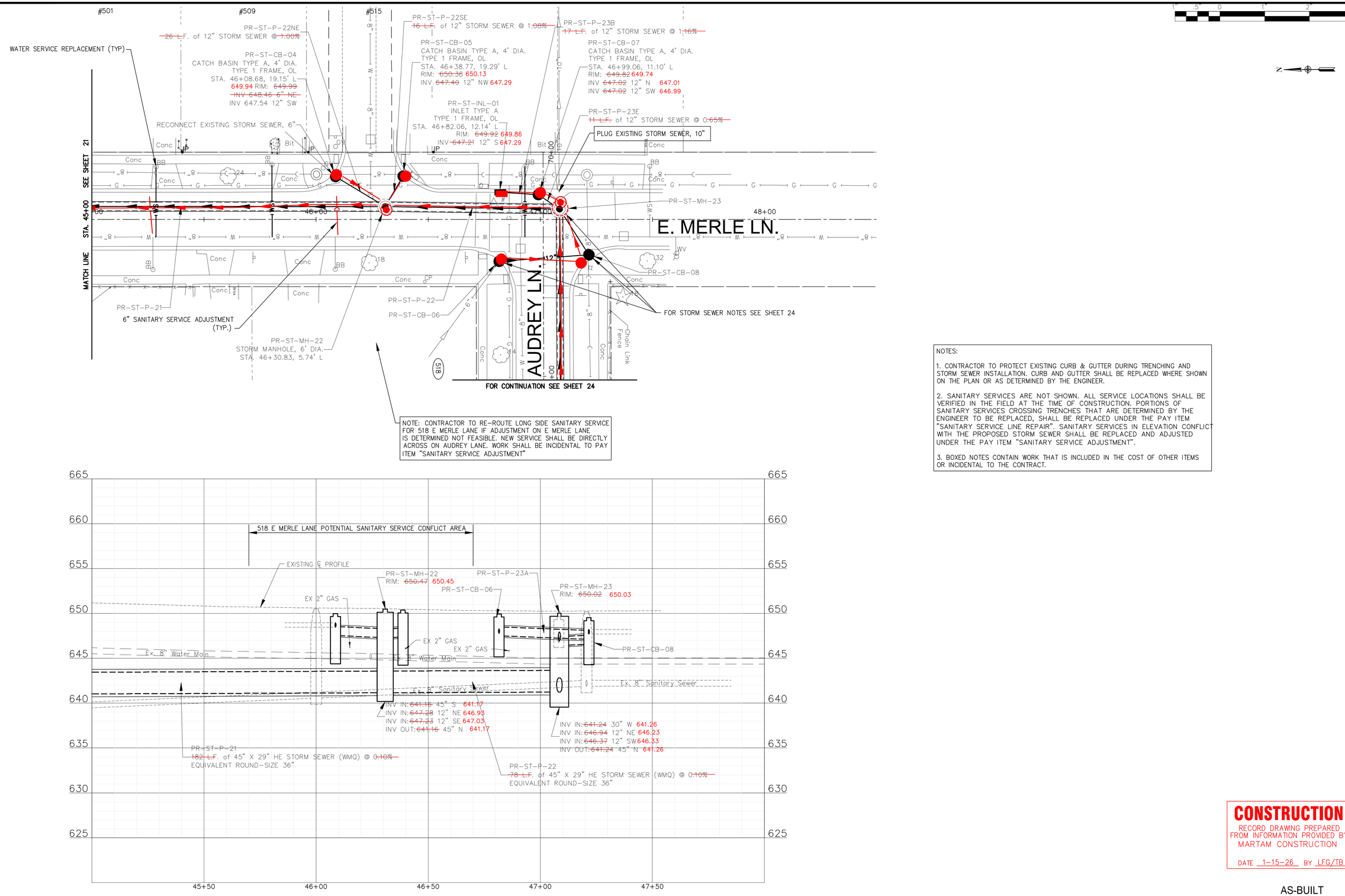

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CONSTRUCTION
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DATE 1-15-26 BY LFG/TB

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	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

EAST MERLE LANE STA 45+00 TO STA 47+50 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS			
CHECKED – MD		37	21
DATE – 06/25/2025			

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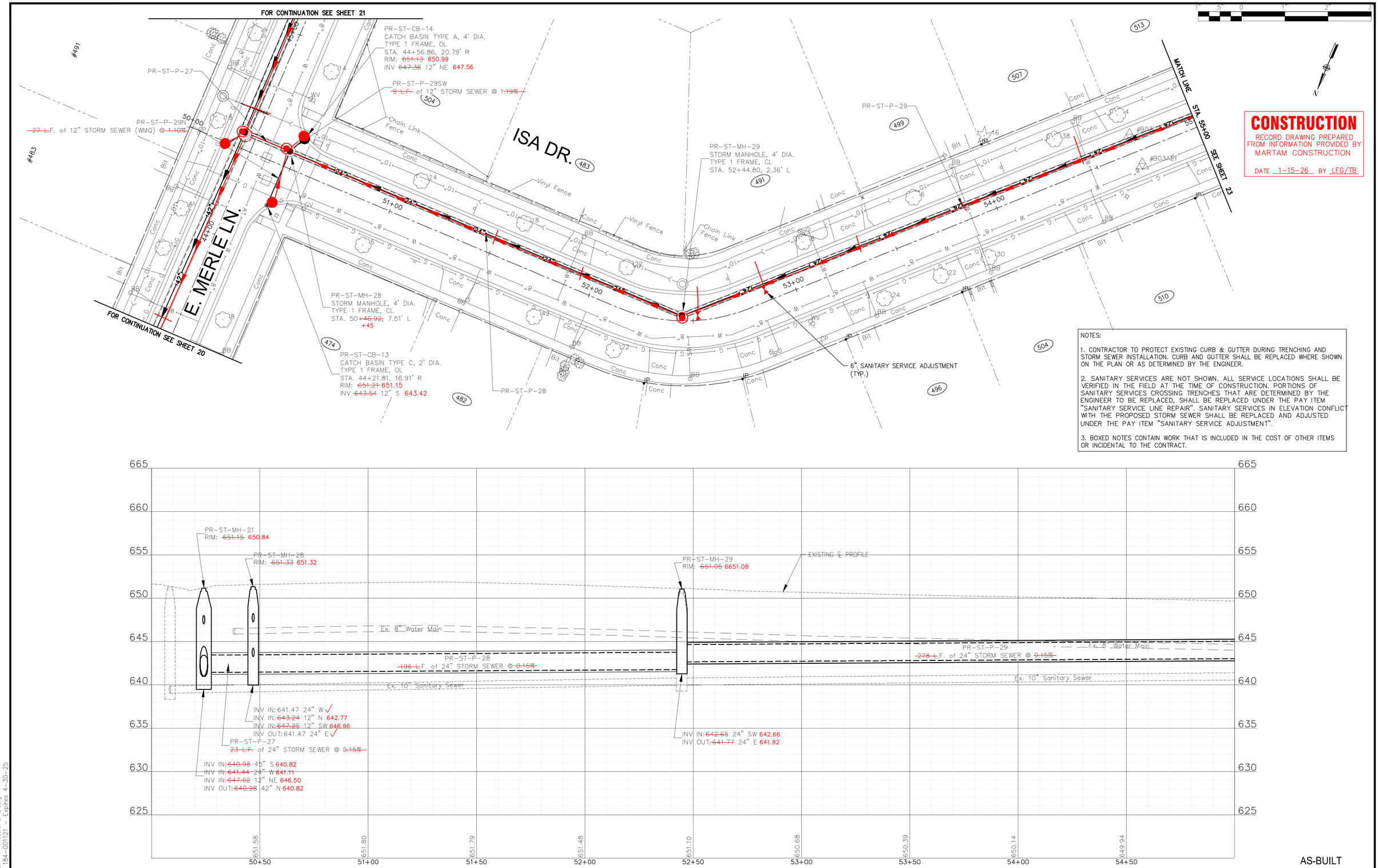

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

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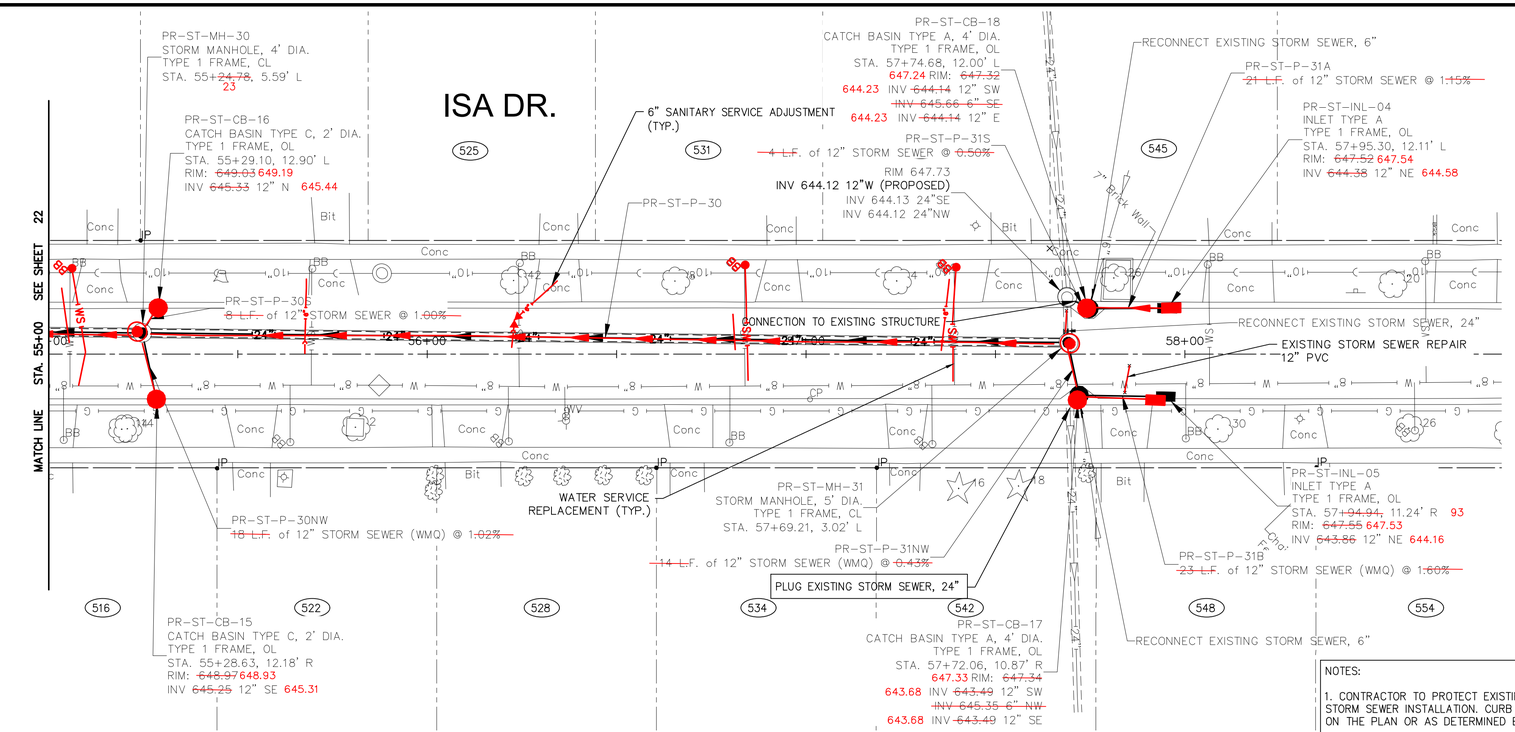
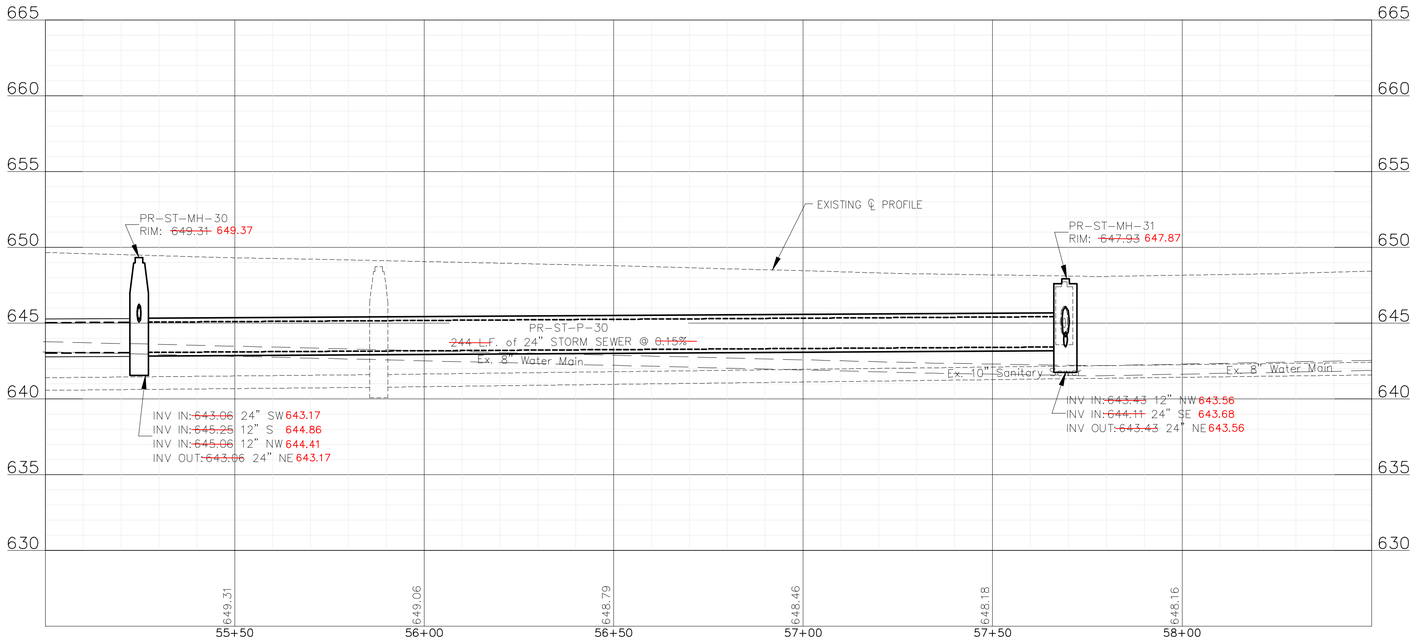
		REVISED –			DRAWN – JJS	37	22
		REVISED –			CHECKED – MD		
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838	DATE – 06/25/2025		





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	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

ISA DRIVE STA 55+00 TO STA 58+00 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 210838

DESIGNED – ML	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	37	23
CHECKED – MD		
DATE – 06/25/2025		

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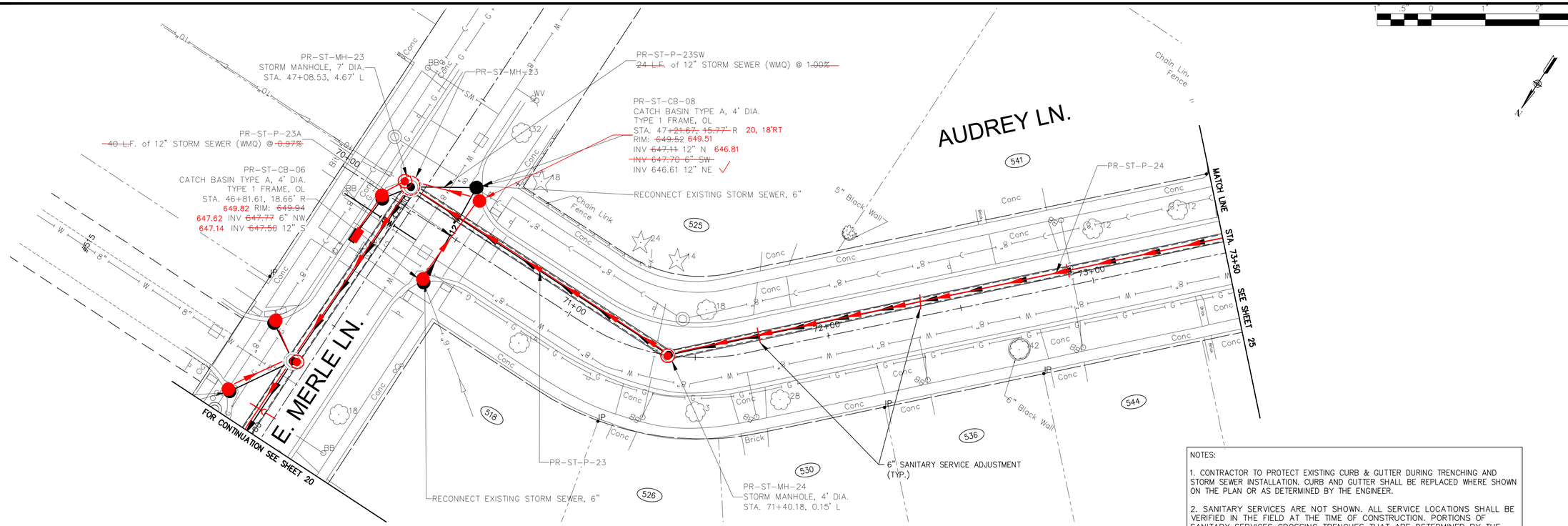
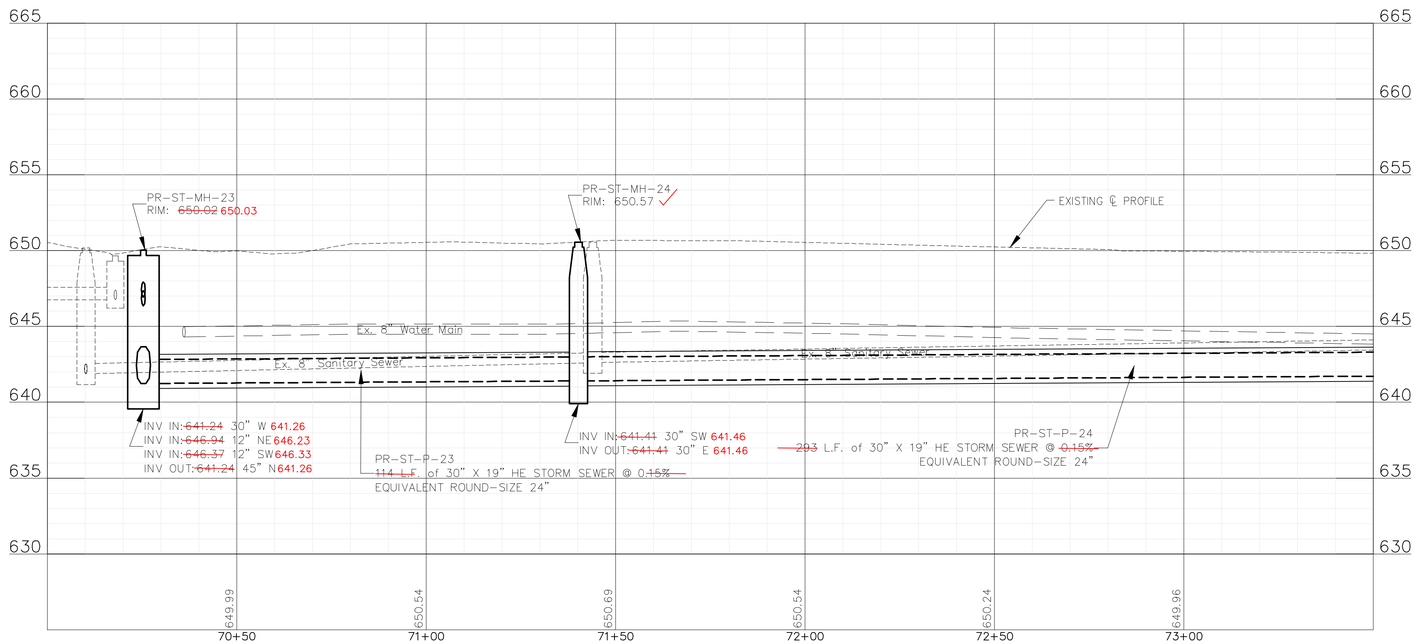


NOTES:

1. CONTRACTOR TO PROTECT EXISTING CURB & GUTTER DURING TRENCHING AND STORM SEWER INSTALLATION. CURB AND GUTTER SHALL BE REPLACED WHERE SHOWN ON THE PLAN OR AS DETERMINED BY THE ENGINEER.

2. SANITARY SERVICES ARE NOT SHOWN. ALL SERVICE LOCATIONS SHALL BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. PORTIONS OF SANITARY SERVICES CROSSING TRENCHES THAT ARE DETERMINED BY THE ENGINEER TO BE REPLACED, SHALL BE REPLACED UNDER THE PAY ITEM "SANITARY SERVICE LINE REPAIR". SANITARY SERVICES IN ELEVATION CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPLACED AND ADJUSTED UNDER THE PAY ITEM "SANITARY SERVICE ADJUSTMENT".

3. BOXED NOTES CONTAIN WORK THAT IS INCLUDED IN THE COST OF OTHER ITEMS OR INCIDENTAL TO THE CONTRACT.



CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

AUDREY LANE STA 70+00 TO STA 73+50 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	24
CHECKED – MD			
DATE – 06/25/2025			

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-DESIGN_SHEETS_PHASE 2.DWG 70+00.00
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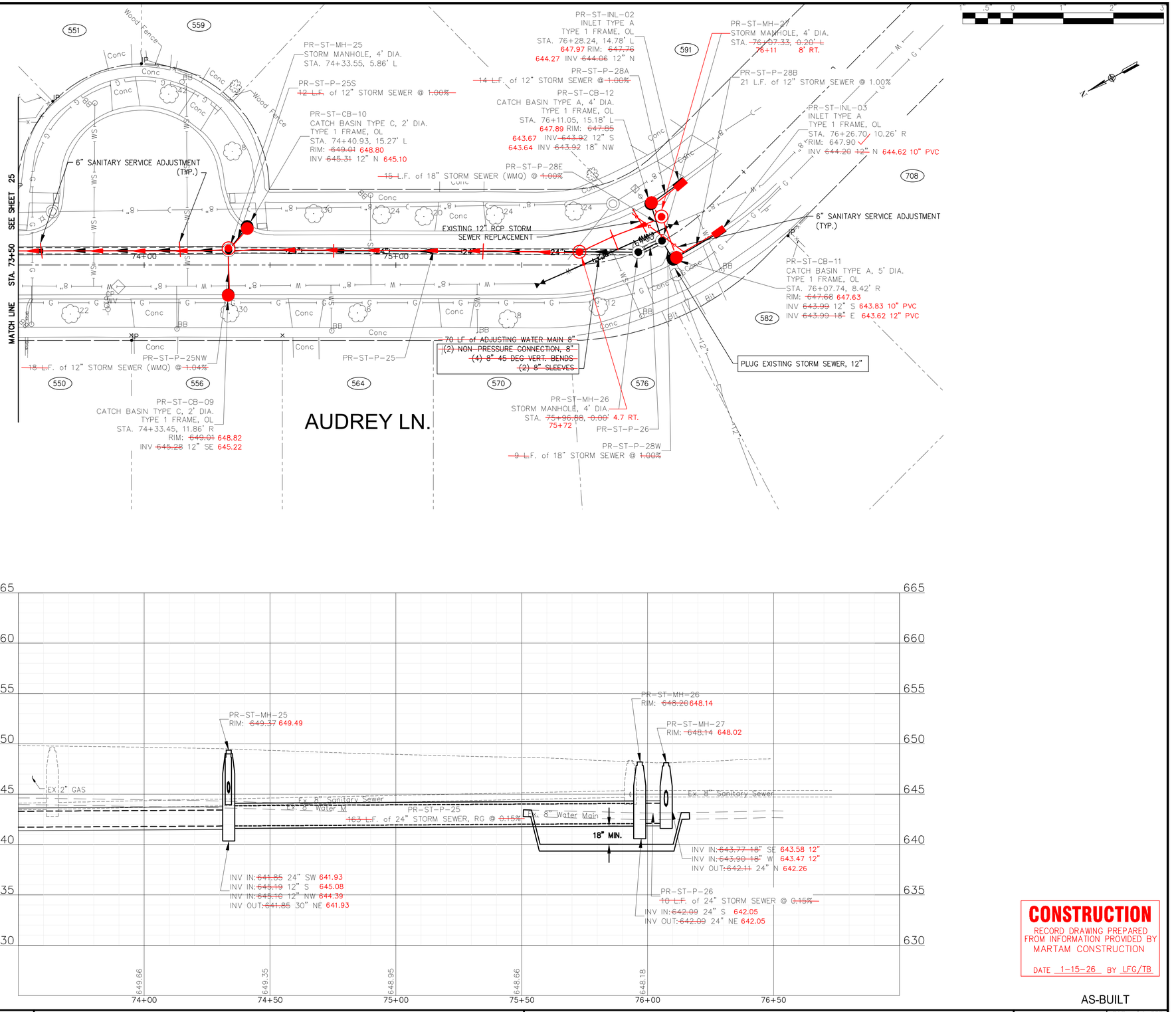

NOTES:

1. CONTRACTOR TO PROTECT EXISTING CURB & GUTTER DURING TRENCHING AND STORM SEWER INSTALLATION. CURB AND GUTTER SHALL BE REPLACED WHERE SHOWN ON THE PLAN OR AS DETERMINED BY THE ENGINEER.

2. SANITARY SERVICES ARE NOT SHOWN. ALL SERVICE LOCATIONS SHALL BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. PORTIONS OF SANITARY SERVICES CROSSING TRENCHES THAT ARE DETERMINED BY THE ENGINEER TO BE REPLACED, SHALL BE REPLACED UNDER THE PAY ITEM "SANITARY SERVICE LINE REPAIR". SANITARY SERVICES IN ELEVATION CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPLACED AND ADJUSTED UNDER THE PAY ITEM "SANITARY SERVICE ADJUSTMENT".

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CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2
		REVISED –	
		REVISED –	
		REVISED –	

AUDREY LANE STA 73+50 TO STA 76+50 DRAINAGE AND UTILITIES

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 210838

	TOTAL SHEETS	SHEET NO.
DESIGNED – ML		
DRAWN – JJS		
CHECKED – MD	37	25
DATE – 06/25/2025		

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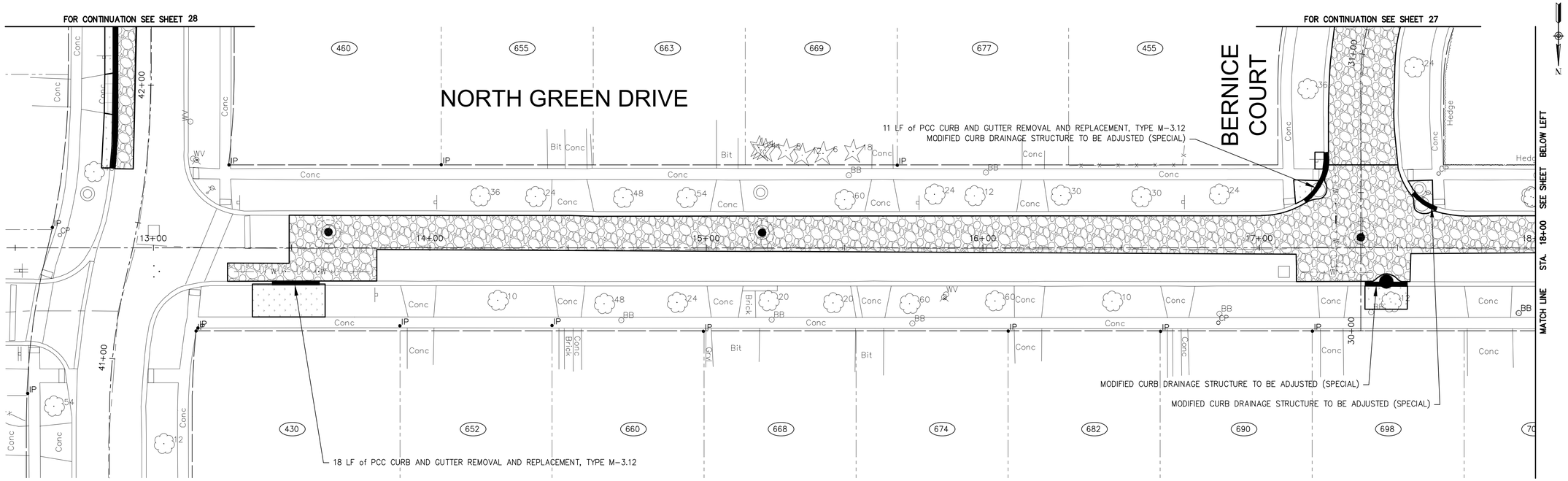

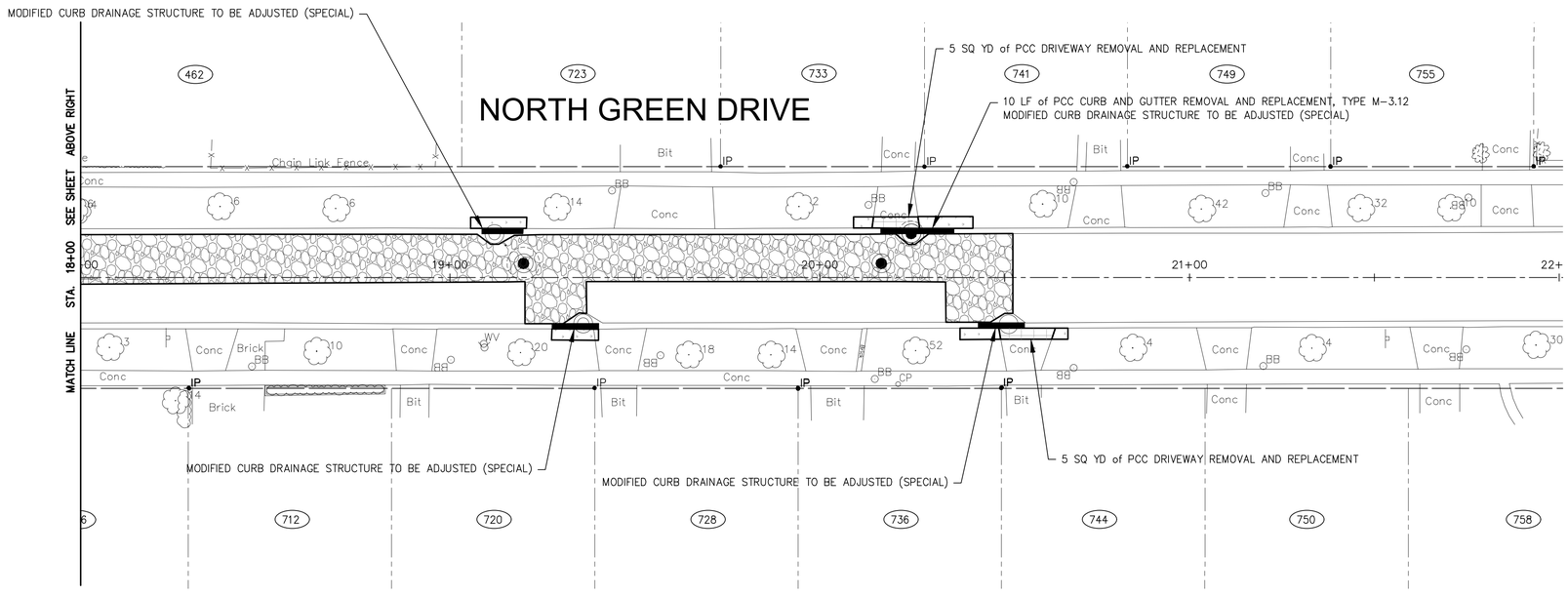

RESTORATION LEGEND

- PCC SIDEWALK REMOVAL AND REPLACEMENT
- TOPSOIL FURNISH AND PLACE, 6" SODDING
- DRIVEWAY REMOVAL AND REPLACEMENT
- CLASS D PATCHES
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

NORTH GREEN DRIVE RESTORATION PLAN

SCALE: 1" = 20' | PROJECT NO: 210838

DESIGNED – ML	
DRAWN – JJS	
CHECKED – MD	
DATE – 06/25/2025	

TOTAL SHEETS	SHEET NO.
37	26

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NOTES:

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2. PAVEMENT RESTORATION ON BERNICE COURT SHALL BE FULL DEPTH RESURFACING WITHIN THE LIMITS SHOWN ON THE PLANS. WORK SHALL BE COMPLETED AS DESCRIBED UNDER PAY ITEMS ~~"HOT-MIX ASPHALT SURFACE REMOVAL (FULL DEPTH)" AND~~ "CLASS D PATCHES, 8"". 1

RESTORATION LEGEND

- 1 — PCC SIDEWALK REMOVAL AND REPLACEMENT
- TOPSOIL FURNISH AND PLACE, 6" SODDING
- DRIVEWAY REMOVAL AND REPLACEMENT
- CLASS D PATCHES
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT

FOR CONTINUATION SEE SHEET 11

NORTH GREEN DRIVE

BERNICE COURT STA 30+60 START OF FULL DEPTH RESURFACING.

BERNICE COURT

5 SQ YD of PCC DRIVEWAY REMOVAL AND REPLACEMENT

18 LF of PCC CURB AND GUTTER REMOVAL AND REPLACEMENT, TYPE M-3.12
(2) MODIFIED CURB DRAINAGE STRUCTURE TO BE ADJUSTED (SPECIAL)

65 SQ FT PCC SIDEWALK REMOVAL AND REPLACEMENT, 5"

2 SQ YD of BRICK PAVER STOCKPILING

2 SQ YD of BRICK PAVER STOCKPILING

222 LF of PCC CURB AND GUTTER REMOVAL AND REPLACEMENT, TYPE M-3.12

24 SQ YD of PCC DRIVEWAY REMOVAL AND REPLACEMENT

BERNICE COURT STA 38+25 END OF FULL DEPTH RESURFACING.

WEST GREEN DRIVE

SEE SHEET ABOVE STA. 35+00 MATCH LINE

SEE SHEET BELOW STA. 35+00 MATCH LINE

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED – 1 PER ADDEND. #1 6/9/25	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2
		REVISED –	
		REVISED –	
		REVISED –	

BERNICE COURT RESTORATION PLAN

SCALE: 1" = 20' | PROJECT NO: 210838

	TOTAL SHEETS	SHEET NO.
DESIGNED – ML		
DRAWN – JJS		
CHECKED – MD	37	27
DATE – 06/25/2025		

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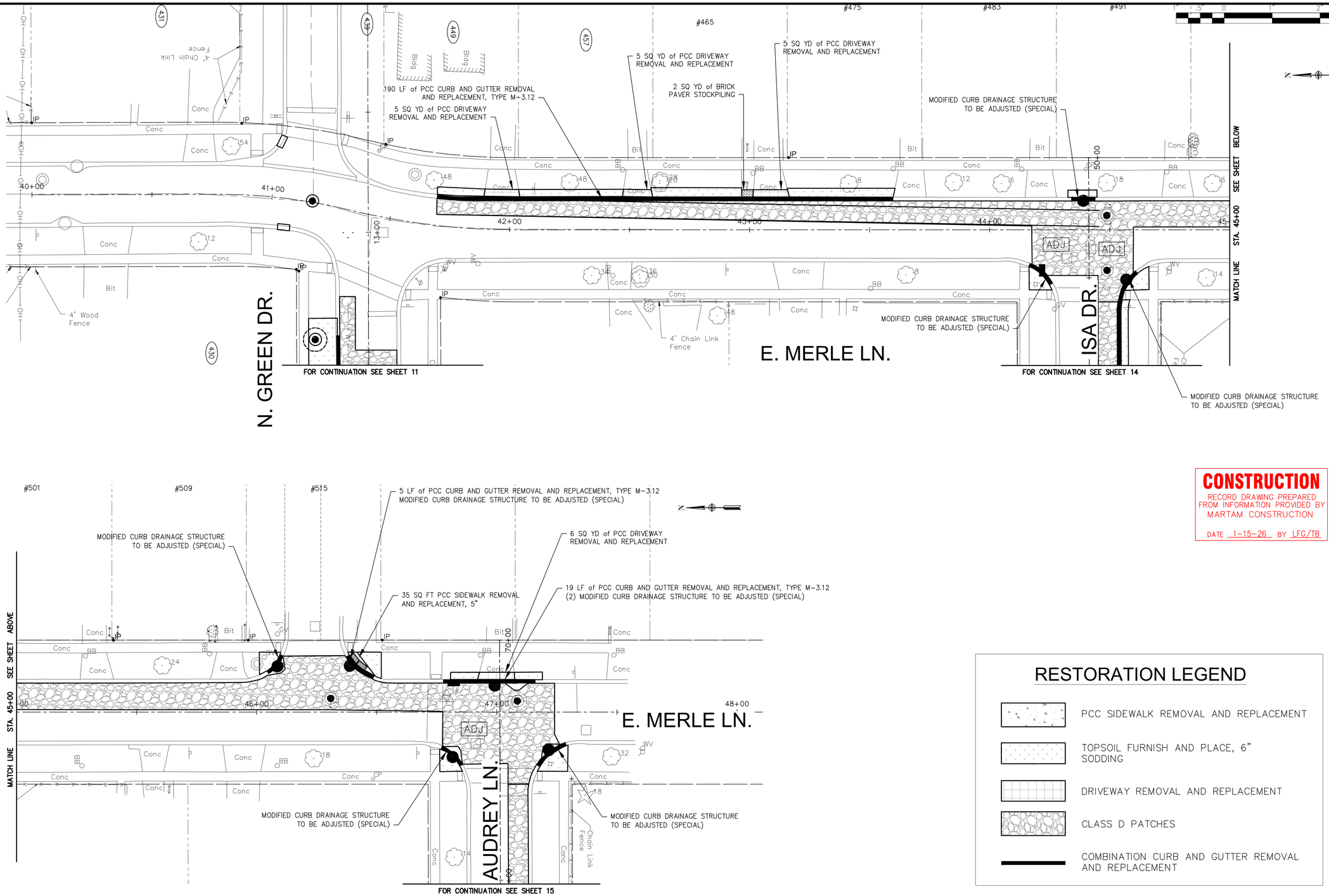

CONSTRUCTION
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DATE 1-15-26 BY LFG/TB

RESTORATION LEGEND

- PCC SIDEWALK REMOVAL AND REPLACEMENT
- TOPSOIL FURNISH AND PLACE, 6" SODDING
- DRIVEWAY REMOVAL AND REPLACEMENT
- CLASS D PATCHES
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT

AS-BUILT

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BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

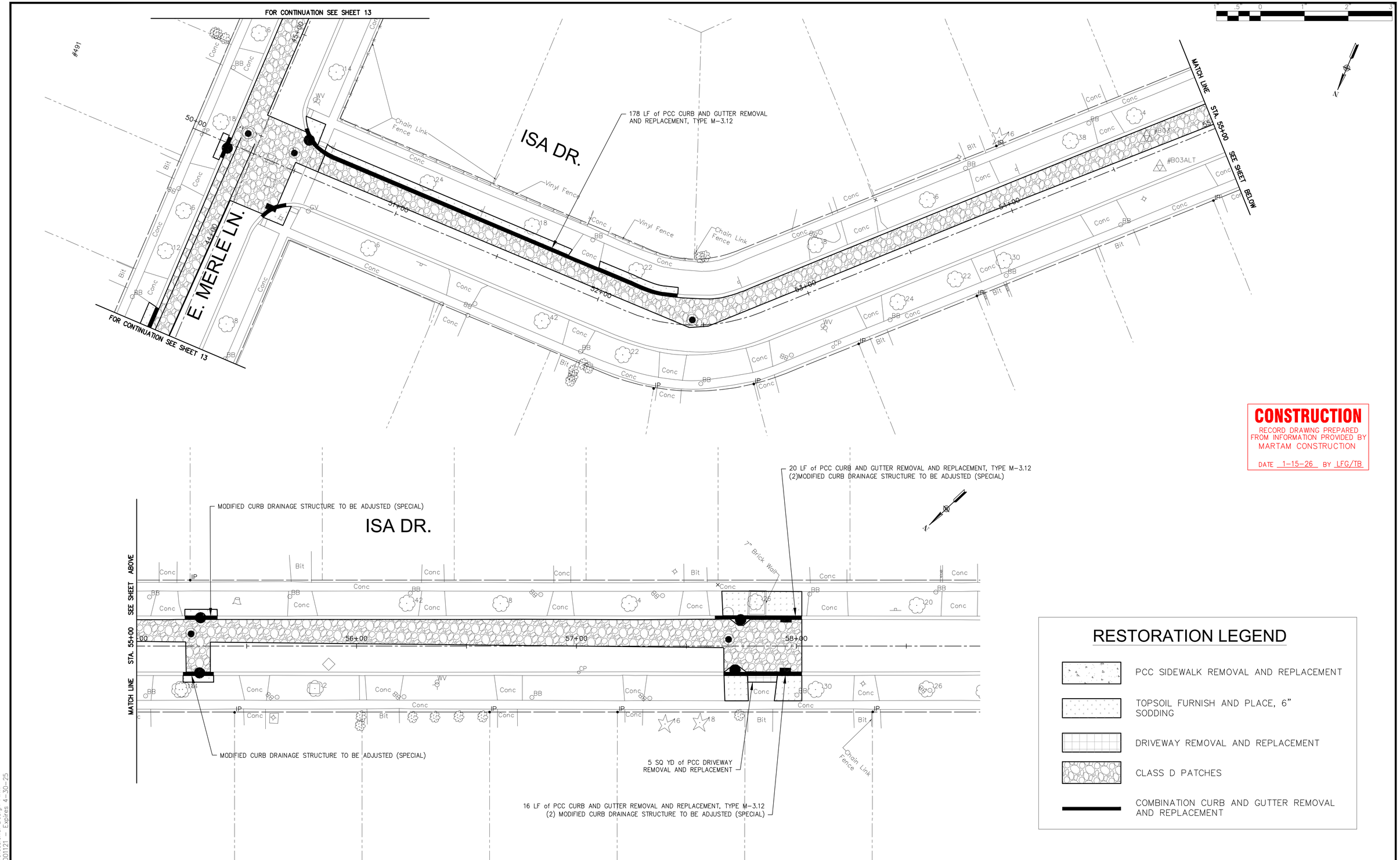
VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

EAST MERLE LANE RESTORATION PLAN

SCALE: 1" = 20' | PROJECT NO: 210838

DESIGNED –	ML
DRAWN –	JJS
CHECKED –	MD
DATE –	06/25/2025

TOTAL SHEETS	SHEET NO.
37	28



CONSTRUCTION
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DATE 1-15-26 BY LFG/TB

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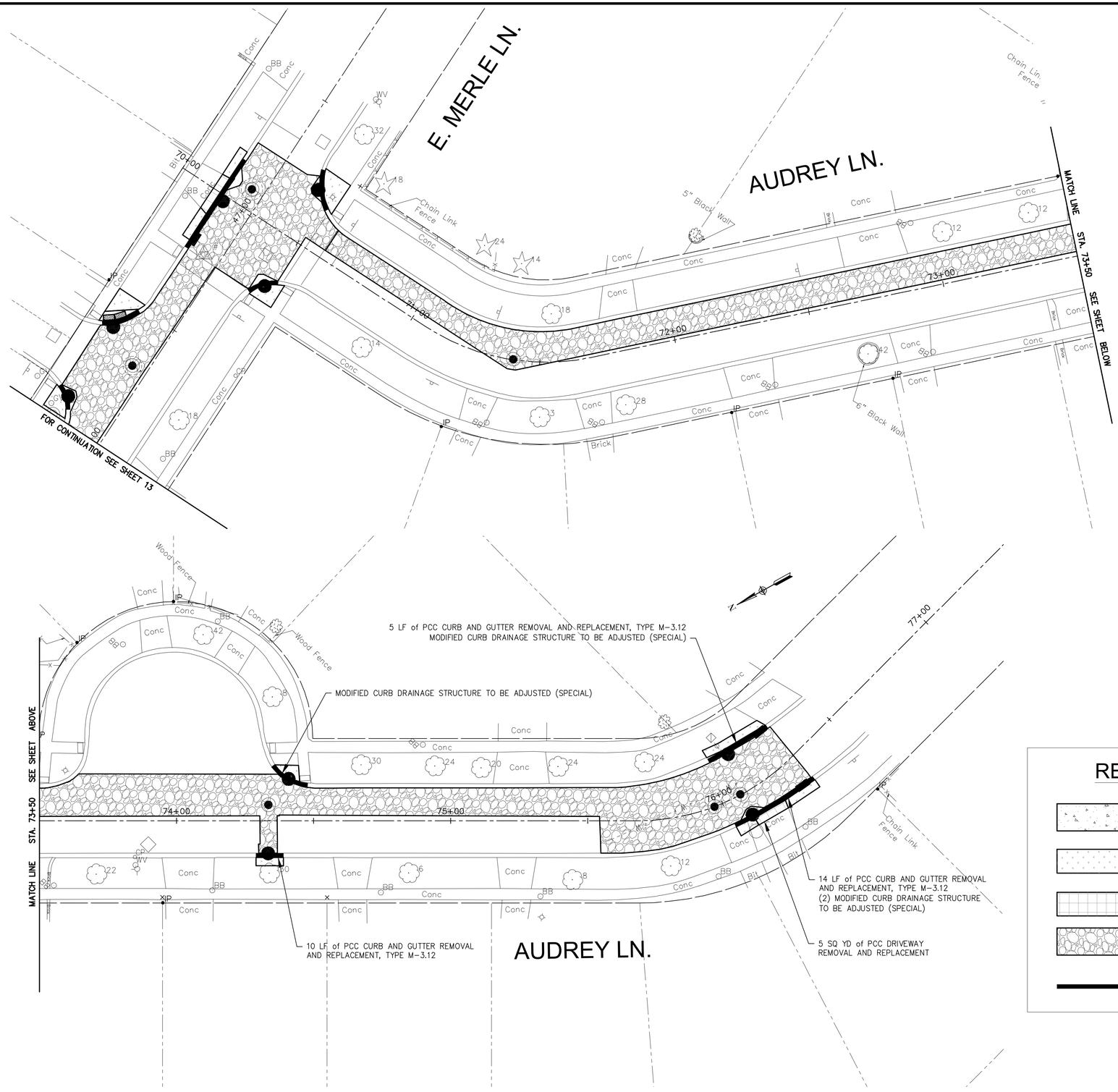
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	ISA DRIVE RESTORATION PLAN	DESIGNED – ML DRAWN – JJS CHECKED – MD DATE – 06/25/2025	TOTAL SHEETS 37	SHEET NO. 29
		REVISED –					
		REVISED –					
		REVISED –		SCALE: 1" = 20' PROJECT NO: 210838			



CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

RESTORATION LEGEND

- PCC SIDEWALK REMOVAL AND REPLACEMENT
- TOPSOIL FURNISH AND PLACE, 6" SODDING
- DRIVEWAY REMOVAL AND REPLACEMENT
- CLASS D PATCHES
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT

AS-BUILT

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2
		REVISED –	
		REVISED –	AUDREY LANE RESTORATION PLAN
		REVISED –	SCALE: 1" = 20' PROJECT NO: 210838

	TOTAL SHEETS	SHEET NO.
DESIGNED – ML	37	30
DRAWN – JJS		
CHECKED – MD		
DATE – 06/25/2025		

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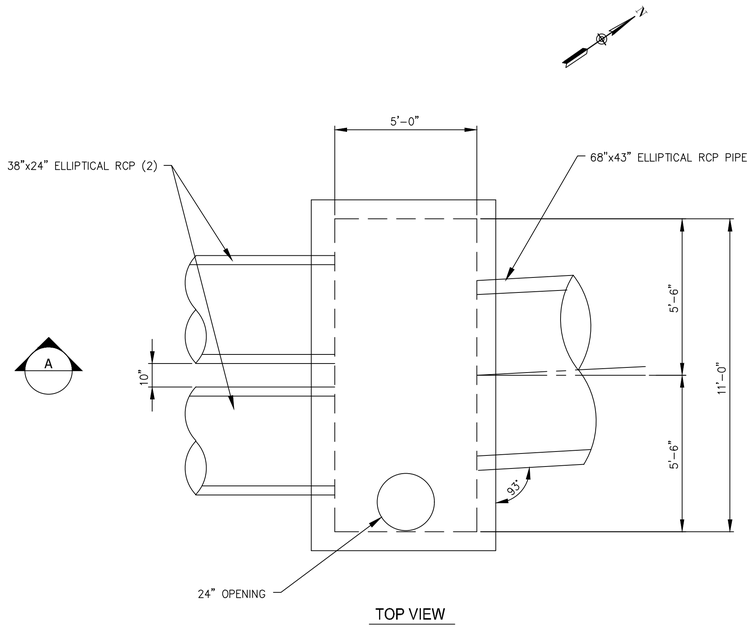
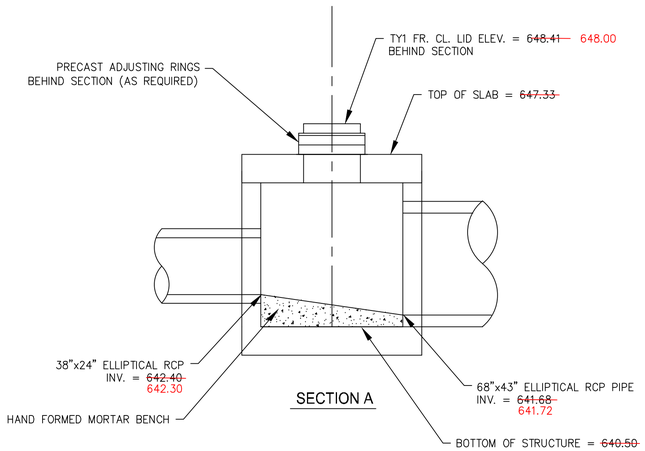


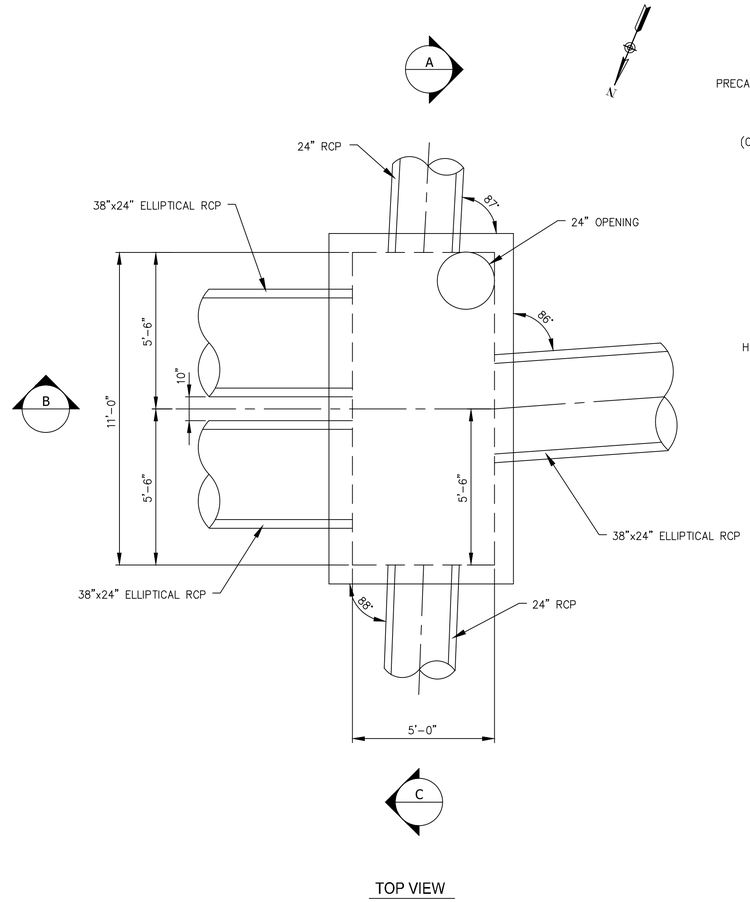
TOP VIEW



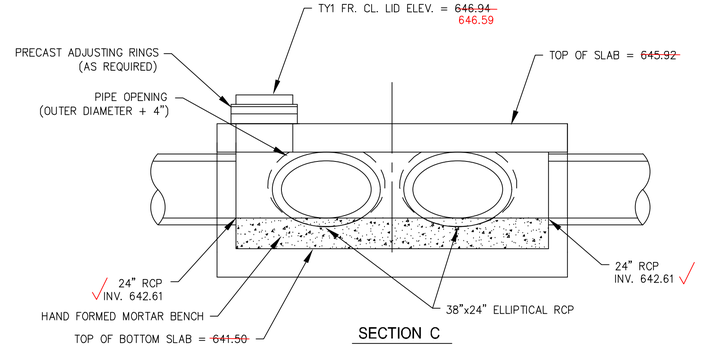
SECTION A

JUNCTION CHAMBER PR-ST-JC-01

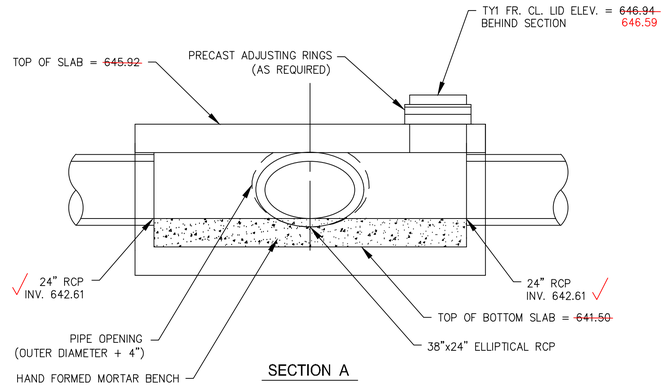
SCALE = 3/8"=1'-0"



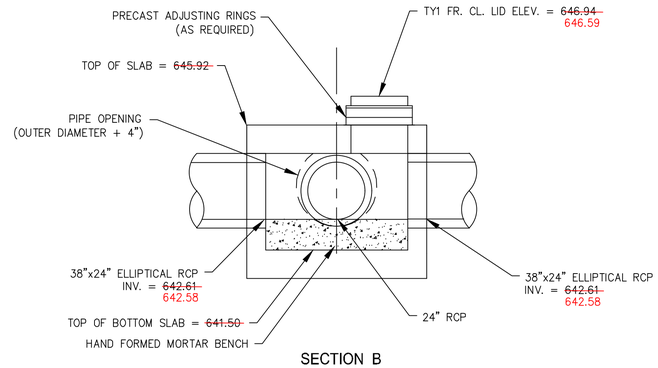
TOP VIEW



SECTION C



SECTION A



SECTION B

JUNCTION CHAMBER PR-ST-JC-02

SCALE = 3/8"=1'-0"

NOTE: PRECAST CONCRETE JUNCTION CHAMBERS ARE SHOP FABRICATED AND THE DESIGN IS THE RESPONSIBILITY OF THE PRECAST CONCRETE MANUFACTURER. THE CHAMBERS SHOWN ON THE DRAWINGS ARE FOR GENERAL ARRANGEMENT PURPOSES.

CONSTRUCTION
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BAXTER & WOODMAN consulting engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

PRECAST CONCRETE STRUCTURE DETAILS

SCALE: AS NOTED | PROJECT NO: 210838

		TOTAL SHEETS	SHEET NO.
DESIGNED – ML			
DRAWN – JJS		37	31
CHECKED – MD			
DATE – 2/6/26			

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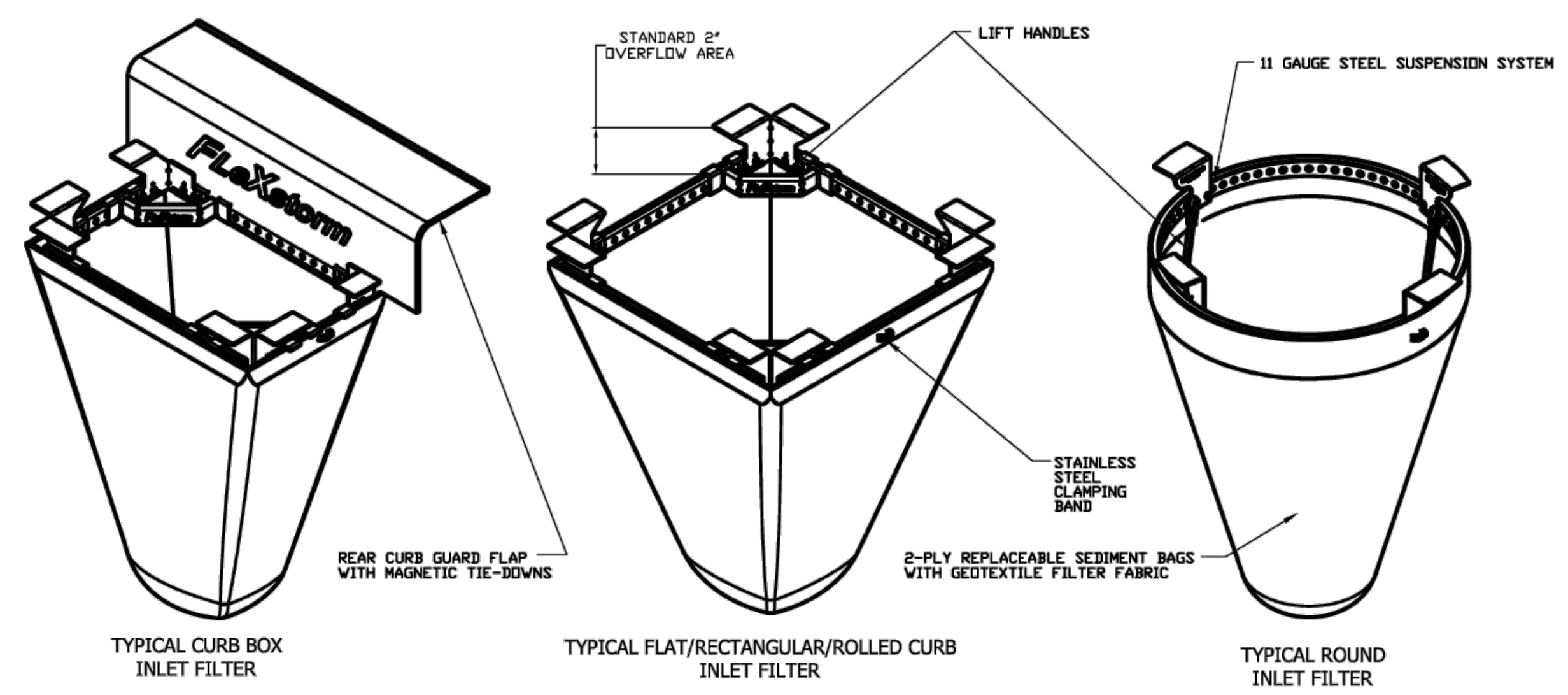
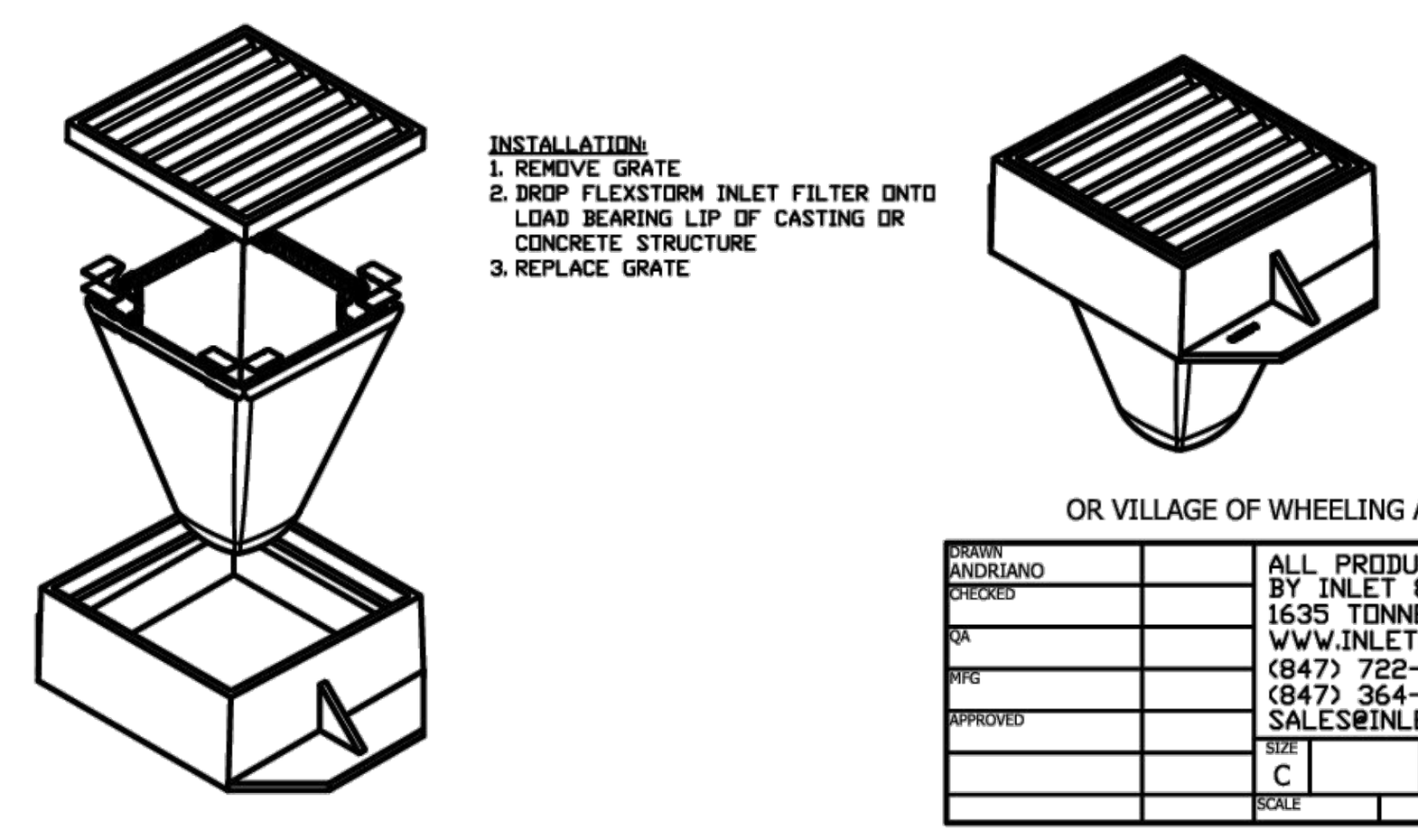
INLET AND FILTER PROTECTION STANDARD (ERO-1)



IPP *FLe* Xstorm Inlet Filter Specifications

Material Property	Test Method	Value (min ave)	
> Inner Filter Bag Specs (2 ft³ min vol)		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%
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0 /sec	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft	145 gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%	
Thickness	ASTM D 1777	.040 +/- .005	
> Frame Construction			
A36 Structural Steel; 11 Guage; Zinc Plated	ASTM A 576	*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

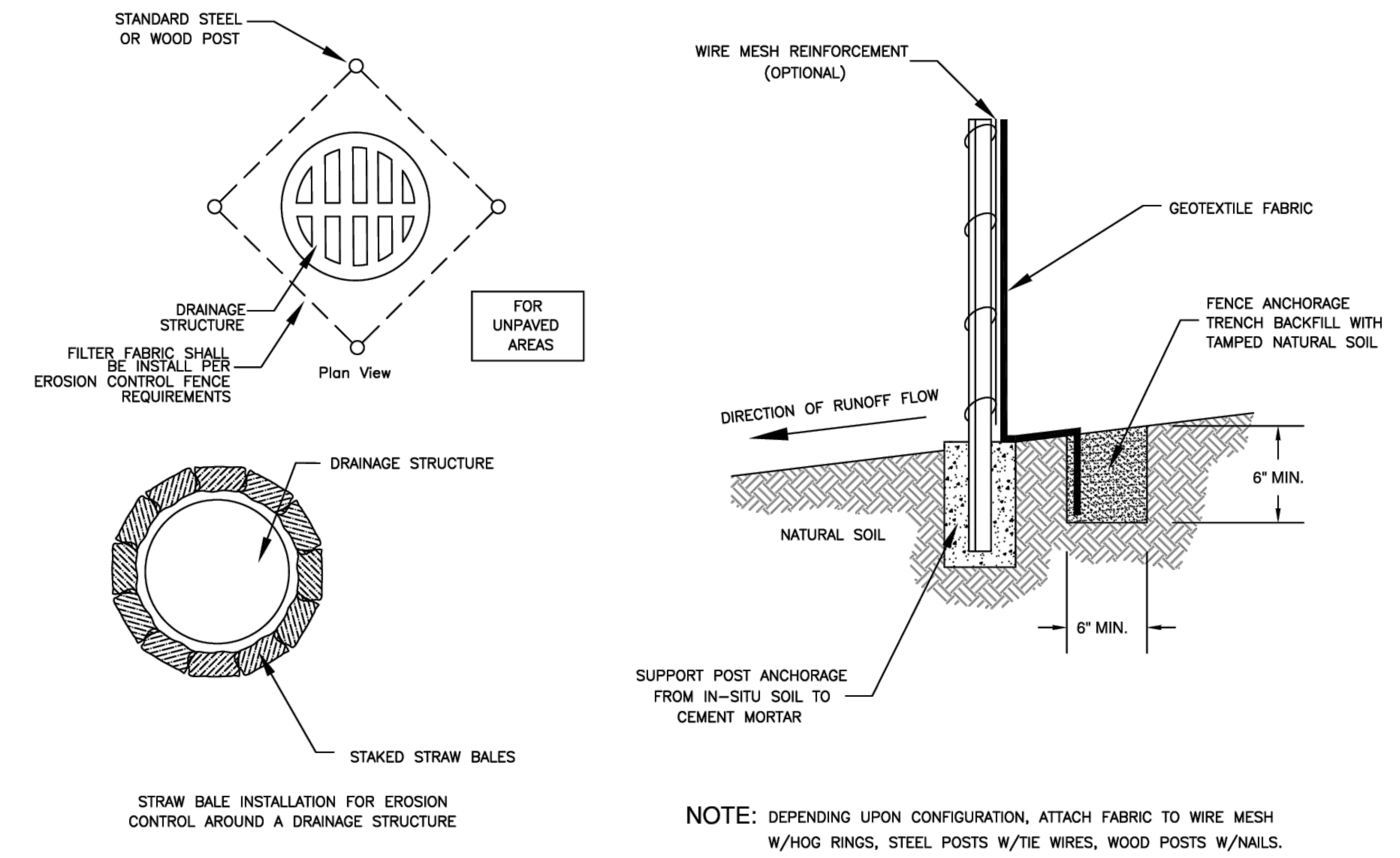
DRAWN ANDRIANO		ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC 1635 TONNE RD ELK GROVE, IL WWW.INLETFILTERS.COM (847) 722-0690 PH (847) 364-5262 FX SALES@INLETFILTERS.COM
CHECKED		
QA		
MFG		
APPROVED		
SIZE C	DWG NO IPP_FLEXSTORM_SPECS	REV
SCALE		SHEET 1 OF 1

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	

SILT FENCE INSTALLATION STANDARD (ERO-2)



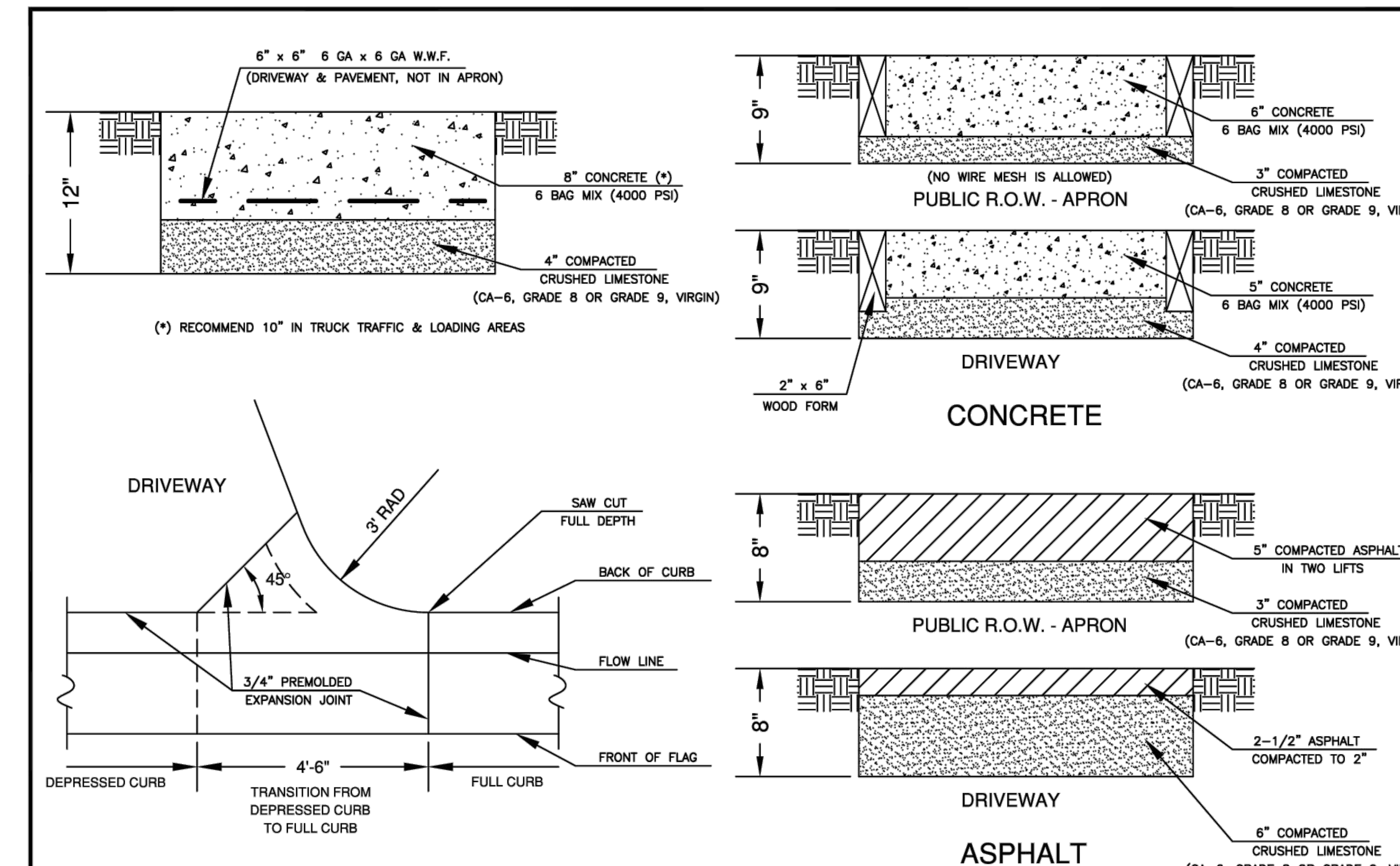
NOTE: DEPENDING UPON CONFIGURATION, ATTACH FABRIC TO WIRE MESH W/HOG RINGS, STEEL POSTS W/TIE WIRES, WOOD POSTS W/NAILS.

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.
	S.W.	05-01-00 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.	12-20-16 INLET PROTECTION	

DRIVEWAY STANDARD (R-1)



COMMERCIAL DRIVEWAY

SEE V.O.W. PUBLIC SIDEWALK & SIDEWALK RAMP STANDARD

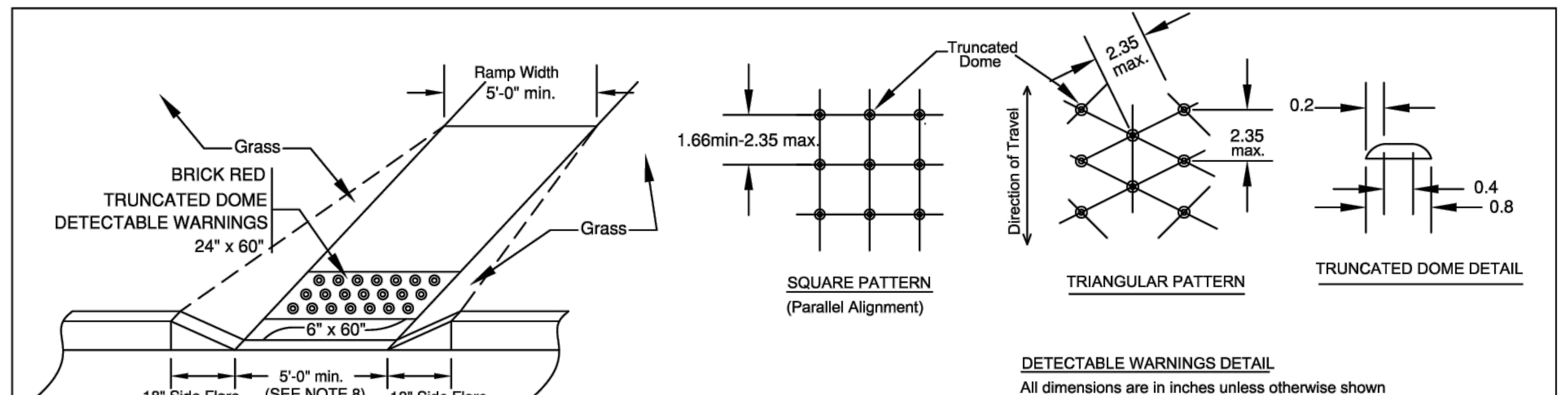
RESIDENTIAL DRIVEWAY

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

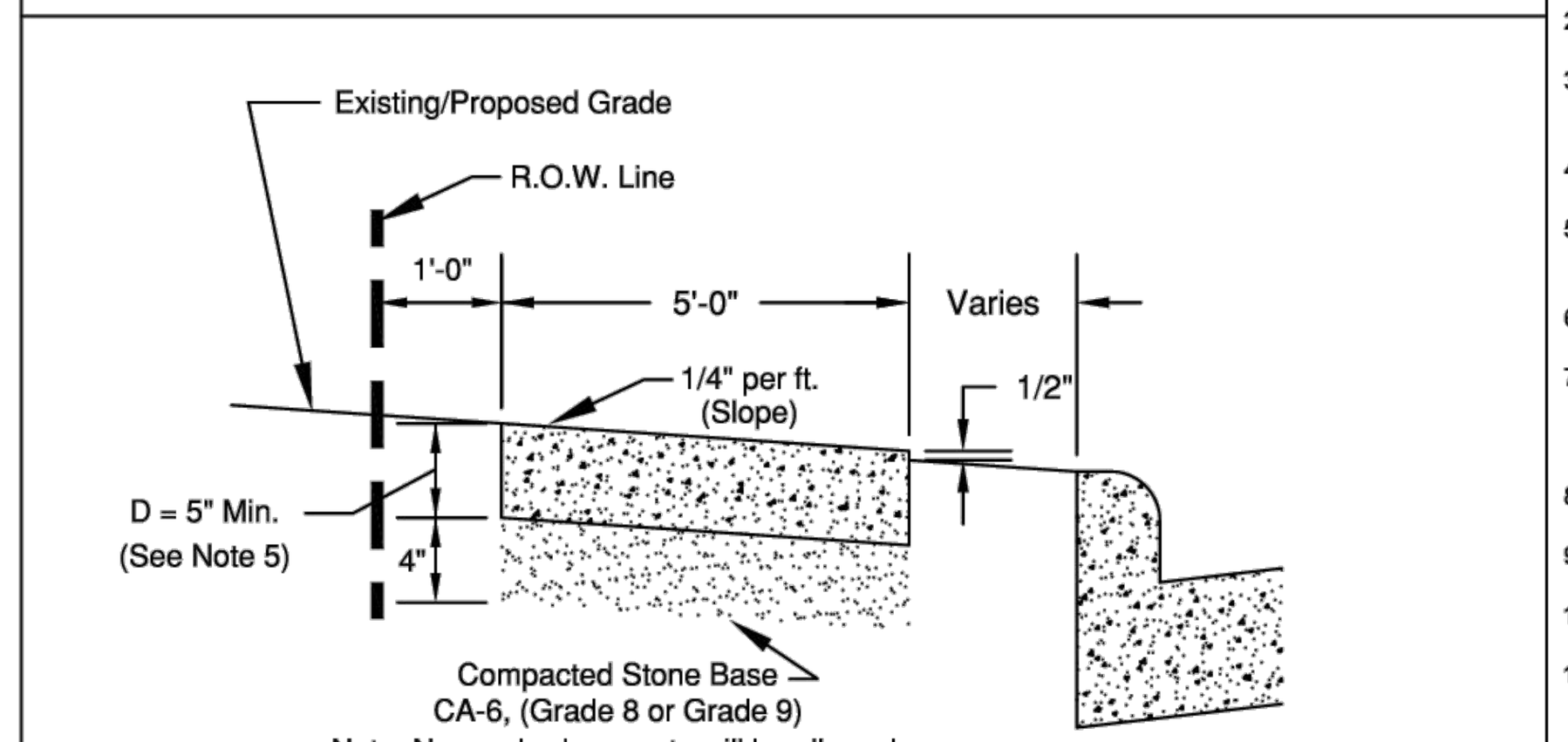
DRIVEWAY STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	02-09-06 REVISED PER RG	R-1
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.R.G.	12-17-08 APRON AGG. THICK	
	K.R.G.	03-29-10 REVISED GRADE 9	

PUBLIC SIDEWALK STANDARD (R-3)



SIDEWALK RAMP



PUBLIC SIDEWALK

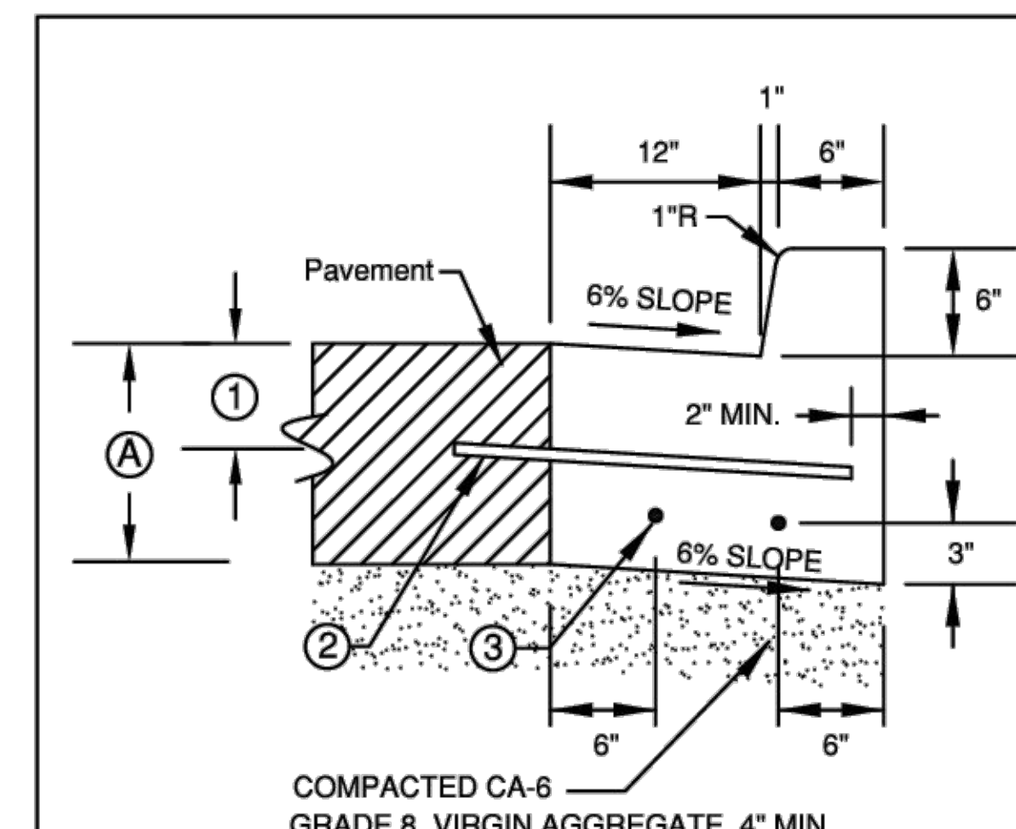
NOTE:
1. TO BE FORMED WITH 2" x 6" BOARDS OR BY 5" WIDE STEEL FORMS.
2. TOOLED JOINTS SHALL BE 1/2" AT 5' CENTERS.
3. EXPANSION JOINTS SHALL BE 3/4" THICK X 5 " WIDE BITUMINOUS IMPREGNATED FIBERBOARD AT 50' CENTERS, AT DRIVEWAYS AND OTHER CONCRETE JOINTS.
4. PROVIDE BROOM FINISH EXCEPT AT TRUNCATED DOME.
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.

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

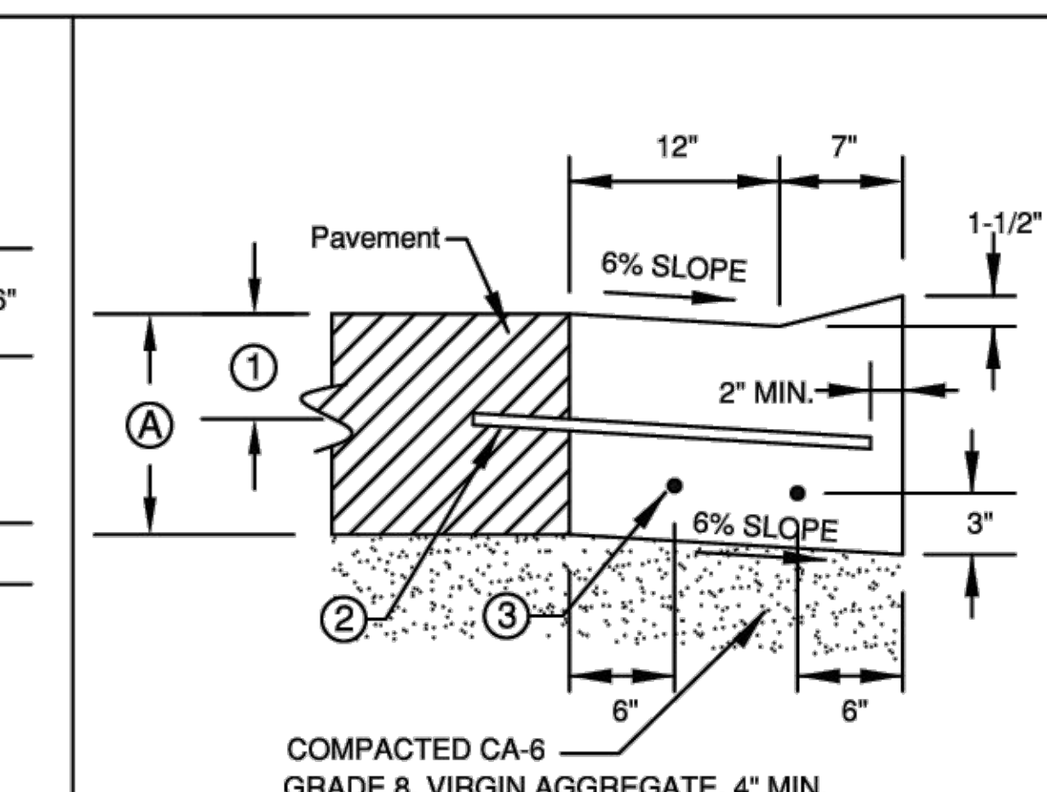
PUBLIC SIDEWALK STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	K.R.G.	9-11-06 AS PER T.W.M.	R-3
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	C.J.C.	08-08-08 AS PER K.R.G.	
	L.R.	04-04-14 AS PER J.T.	
	K.A.G.	12-21-16 AUTOCAD FILE	

CURB AND GUTTER STANDARD (R-12)



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.

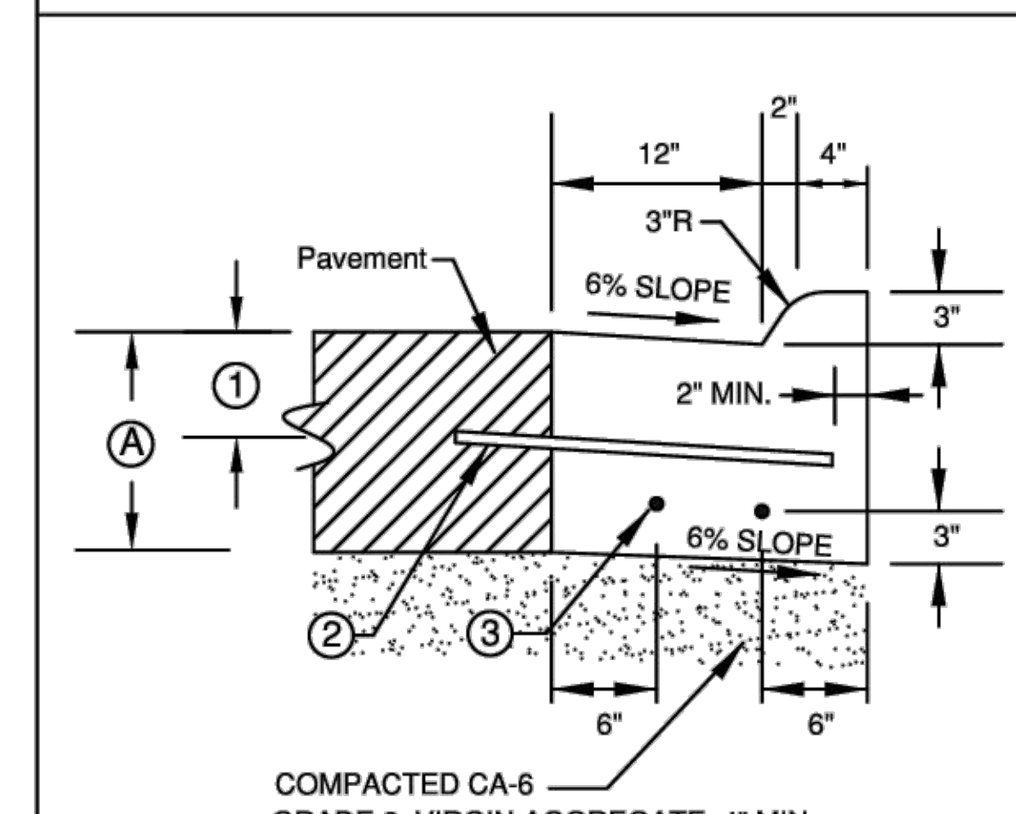
③ 5/8" DIA. STEEL REBAR CONTINUOUS (TYPICAL).

NOTES:

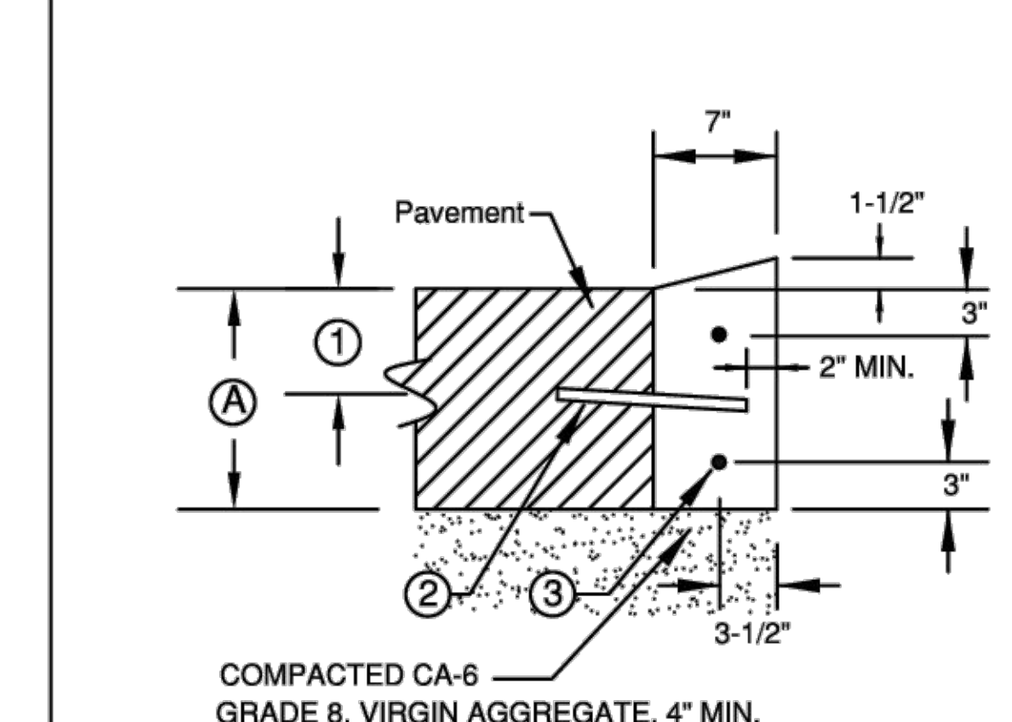
PROVIDE DEPRESSED CURBS AT DRIVEWAYS, CROSSWALKS, AND SIDEWALKS, ETC.

ALL CONCRETE SHALL HAVE 4,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.

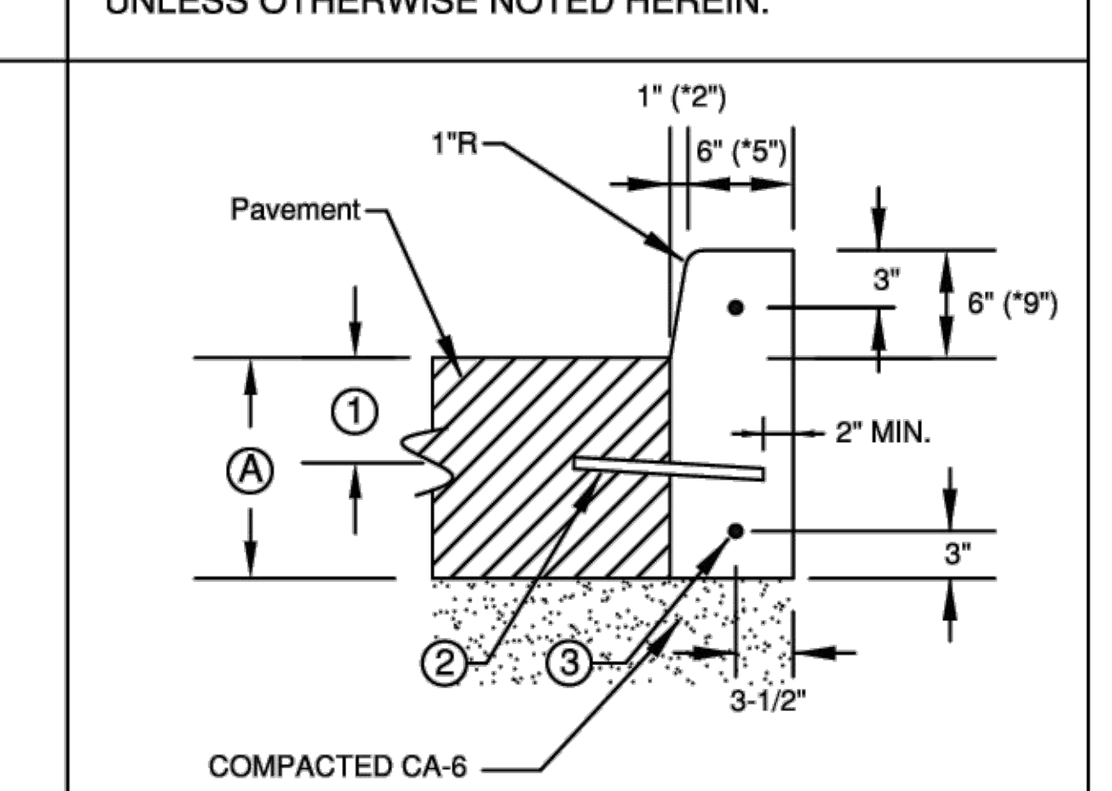
ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 606 UNLESS OTHERWISE NOTED HEREIN.



COMBINATION CURB & GUTTER TYPE M-3.12



DEPRESSED CURB (TYPE B)



* FOR 9" CURB, THESE SHALL BE 2" & 5".

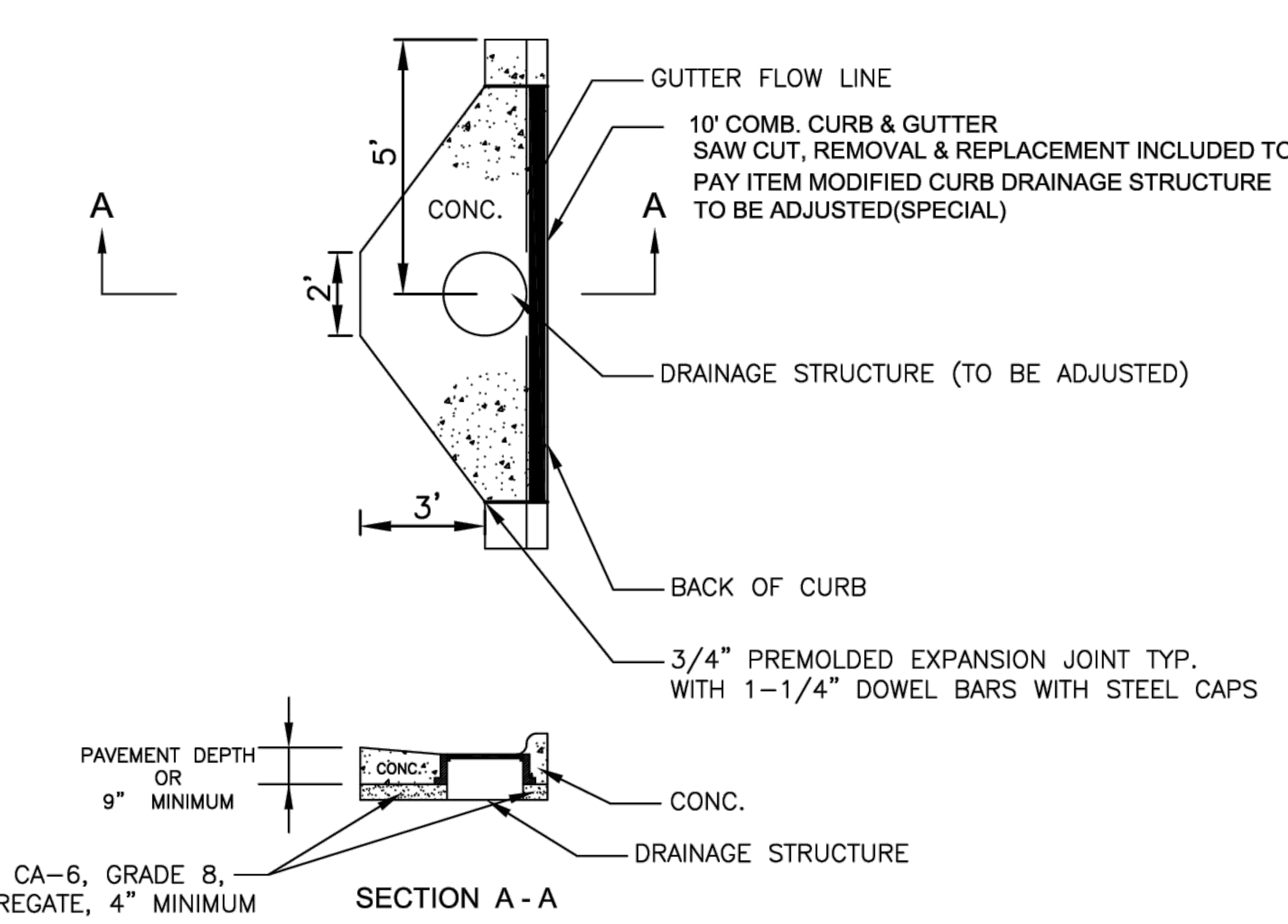
BARRIER CURB (TYPE B)

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

CURB AND GUTTER STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	06-16-00 AUTOCAD FILE	R-12
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.A.G	11-21-16 AUTOCAD FILE	

MODIFIED CURB DRAINAGE STRUCTURE STANDARD (R-15)



SECTION A - A

NOTE:
CONCRETE REPLACEMENT WILL BE MONOLITHIC POUR WITH EXPANSON MATERIAL AT CONSTRUCTION JOINT.
BACK FILL WEDGE AREA WITH CA-6 (GRADE 8), CRUSHED LIMESTONE OR AS DIRECTED BY ENGINEER.

VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

MODIFIED CURB DRAINAGE STRUCTURE STANDARD

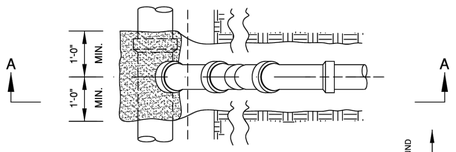
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	4-18-00 AUTO CAD FILE	R-15
FILE LOCATION	S.W.	9-18-01 PER COMMENTS	
T:\ENGINEERING\STANDARDS	J.S.	01-10-05 AS PER IDOT	
	K.R.G.	02-19-08 AGG. BASE	
	M.T.P	12-16-08 PER COMMENTS	

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED -	VILLAGE OF WHEELING, ILLINOIS SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2	CONSTRUCTION DETAILS	DESIGNED - ML	TOTAL SHEETS	SHEET NO.
		REVISED -			DRAWN - JJS	37	32
		REVISED -			CHECKED - MD		
		REVISED -		SCALE: AS NOTED PROJECT NO: 210838	DATE - 06/25/2025		

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB



PLAN

SECTION A - A

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.

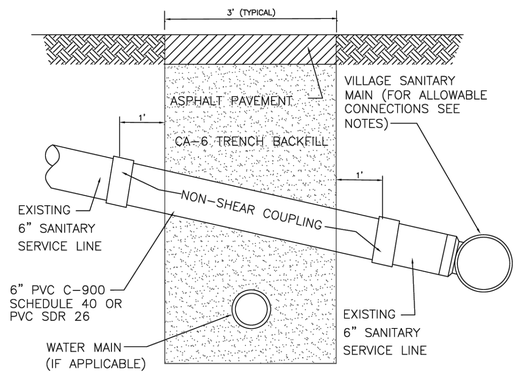
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

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. CIRCULAR SAW-CUT OF SEWER MAIN AND INSTALLATION OF HUB WYE SADDLE OR A HUB TEE SADDLE. CASECADE WATERWORKS CSWRY-0863-06RC, CSWRT-0863-06IG, OR VILLAGE APPROVED EQUAL.
2. IF DEPTH TO MAIN IS GREATER THAN 10 FEET, PLEASE REFER TO SERVICE RISER STANDARD DETAIL (SAN 5).

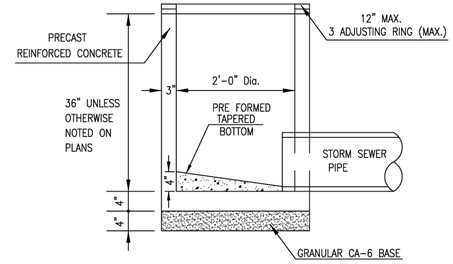
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS | FILE LOCATION: T:\ENGINEERING\STANDARDS

VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

6" SANITARY SEWER SERVICE LINE REPAIR DETAIL

REVISIONS		
K.A.G	1/30/2020 ADDED NOTES	

DETAIL NO. SAN-7



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

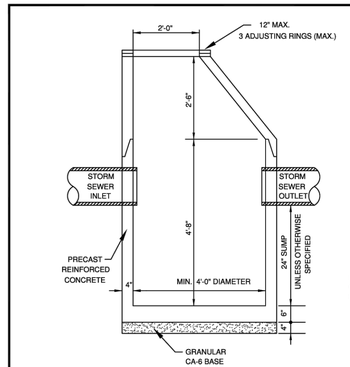
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

INLET STANDARD

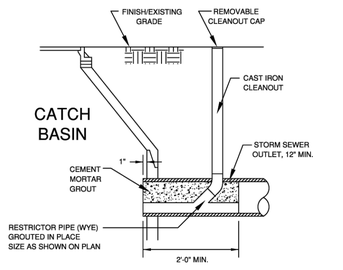
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS | FILE LOCATION: T:\ENGINEERING\STANDARDS

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



CATCH BASIN (TYPE A)



RESTRICTOR CLEANOUT DETAIL

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-SDR-26, 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. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER

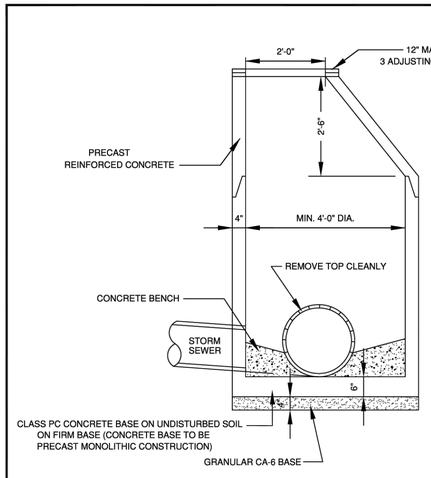
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

CATCH BASIN & RESTRICTOR CLEANOUT STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS | FILE LOCATION: T:\ENGINEERING\STANDARDS

REVISIONS		
S.W.	2-28-00 AUTOCAD FILE	
S.W.	2-27-03 PER COMMENTS	
K.R.G.	9-11-06 AUTOCAD FILE	
K.A.G.	12-11-18 SUMP DEPTH	

DETAIL NO. ST-2



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

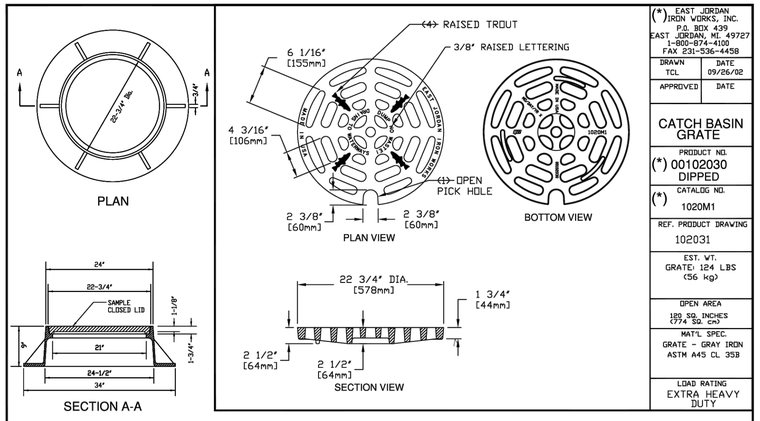
VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

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	DATE
TCL	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
185 SQ. INCHES (774 SQ. cm)

MAT'L SPEC.
GRATE - GRAY IRON ASTM A48 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 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

AS-BUILT

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED – ML
DRAWN – JJS
CHECKED – MD
DATE – 06/25/2025

TOTAL SHEETS: 37 | SHEET NO.: 33

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG CONSTRUCTION DETAILS - 2
Plotted: 2/6/2026 2:18 PM By: TBETTE
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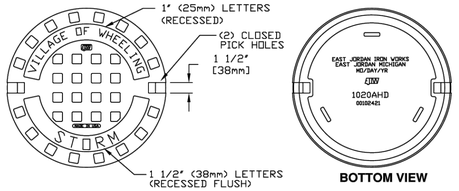
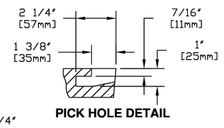
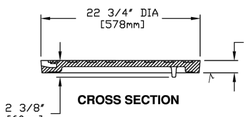
CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB







(*) 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	DATE
SMH	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

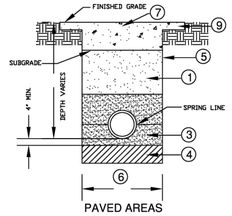
LOAD RATING
HEAVY DUTY

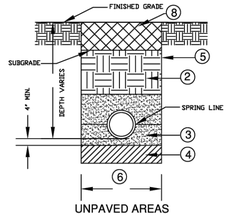
VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

FRAME AND CLOSE LID STORM MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS | FILE LOCATION: T:\ENGINEERING\STANDARDS | DETAIL NO. ST-7

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





NOTES:
1. BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE B OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK.
2. EXCAVATED MATERIAL MAY BE USED UP TO FINAL GRADE IN NON-PAVED AREAS
3. GRAD. NO. CA-7, 8, 11 OR 13 GRAVEL OR LIMESTONE. TO SPRING LINE FOR RIGID PIPE OR 12" ABOVE TOP OF PVC PIPE METHOD 1 COMPACTION PER I.D.O.T. ARTICLE 550.07
4. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" OF STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER
5. TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
6. MAXIMUM PAYABLE TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET
   = 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET
7. STREET CROSS SECTION MUST MATCH THE EXISTING ROADWAY OR THE VILLAGE OF WHEELING TYPICAL STREET CROSS SECTION, WHICHEVER IS GREATER.
   VILLAGE OF WHEELING TYPICAL STREET CROSS SECTIONS ARE OUTLINED BELOW:

ARTERIAL ROADWAY:
-6" AGGREGATE BASE COURSE, CA-6 GRADE B OR 9 VIRGIN STONE
-8" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)
-0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
-2" HOT MIX ASPHALT SURFACE COURSE. MIX "C", N50.

LOCAL ROADWAY:
-6" AGGREGATE BASE COURSE, CA-6 GRADE B OR 9 VIRGIN STONE
-5" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)
-0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
-2" HOT MIX ASPHALT SURFACE COURSE. MIX "C", N50.

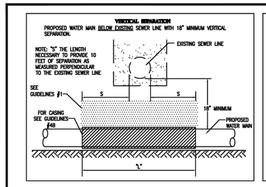
8. 6" OF COMPACTED TOP SOIL
9. SAW CUT BACK 12" FROM TRENCH LIMITS TO PROVIDE CONTINUOUS BUTT JOINT PRIOR TO PAVING.

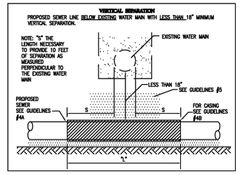
VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION, 2 COMMUNITY BOULEVARD, WHEELING, IL 60090, WWW.WHEELINGIL.GOV

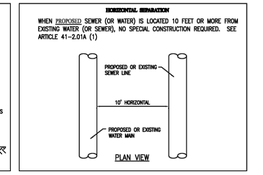
TRENCH BACKFILL STANDARD

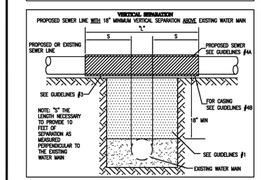
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS | FILE LOCATION: T:\ENGINEERING\STANDARDS | DETAIL NO. UTL-1

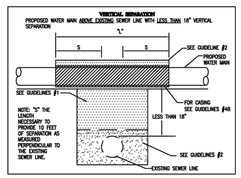
REVISIONS	
S.W.	11-19-04 NO POLY WRAP
C.J.C.	01-20-08 AUTOCAD FILE
K.A.G.	03-07-17 STREET SECTIONS
K.A.G.	1-08-18 BACKFILL MATERIAL
K.A.G.	1-21-20 ADDED NOTE 9

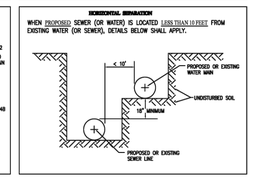


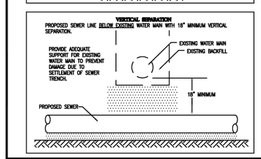












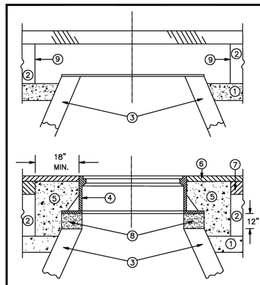
VERTICAL SEPARATION GUIDELINES
1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
2. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED 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 "L" 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 | DETAIL NO. UTL-4

REVISIONS	
S.W.	2-6-06 AUTOCAD FILE
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.

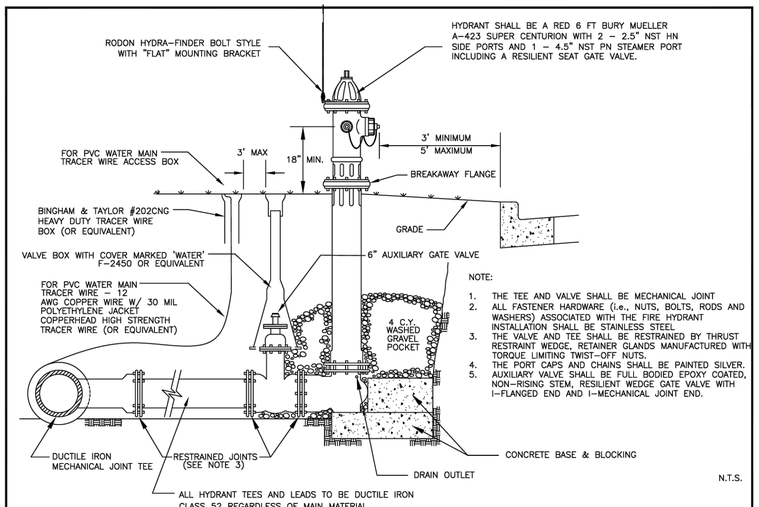
THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

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



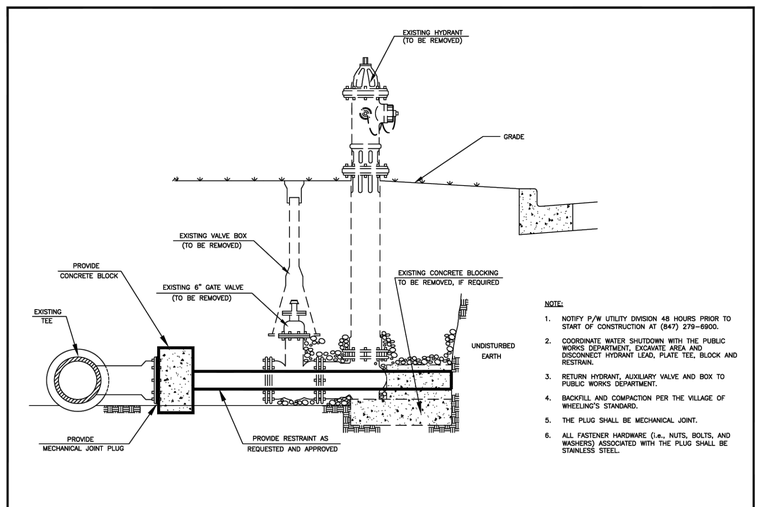
NOTE:
1. THE TEE AND VALVE SHALL BE MECHANICAL JOINT
2. ALL FASTENER HARDWARE (i.e., NUTS, BOLTS, RODS AND WASHERS) ASSOCIATED WITH THE FIRE HYDRANT INSTALLATION SHALL BE STAINLESS STEEL.
3. THE VALVE AND TEE SHALL BE RESTRAINED BY THRUST RESTRAINT WEDGE, RETAINER GLANDS MANUFACTURED WITH TORQUE LIMITING 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.

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 | DETAIL NO. W-1

REVISIONS	
C.C.	03-07-07 PER COMMENTS
S.W.	08-15-08 EJW Water Master
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.

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 | DETAIL NO. W-2

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.	11-21-18 CHANGE PHONE

AS-BUILT

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED – ML
DRAWN – JJS
CHECKED – MD
DATE – 06/25/2025

TOTAL SHEETS	SHEET NO.
37	34

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG CONSTRUCTION DETAILS - 3
Plotted: 2/6/2026 2:18 PM By: TBETTE
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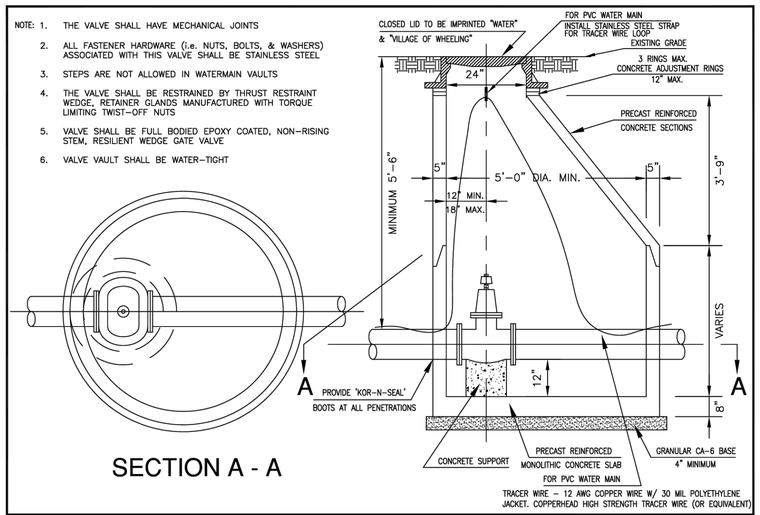
1" .5" 0 1" 2" 3"

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

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



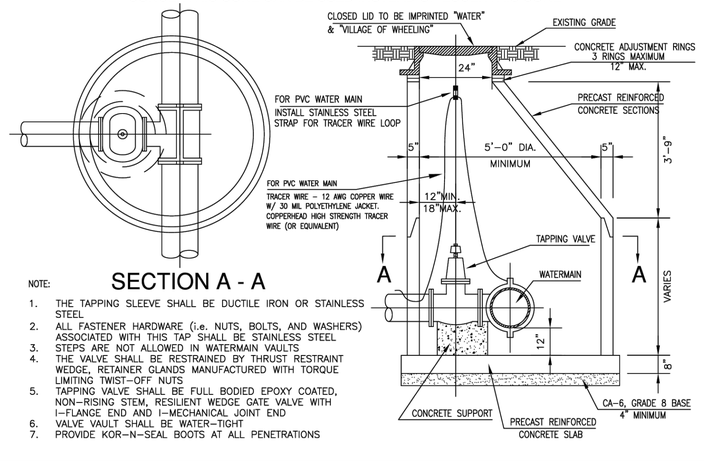
SECTION A - A

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	REVISIONS		DETAIL NO.
	S.W.	11-07-07 PER COMMENTS	W-3
FILE LOCATION	C.C.	03-07-07 PER COMMENTS	
T:\ENGINEERING\STANDARDS	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



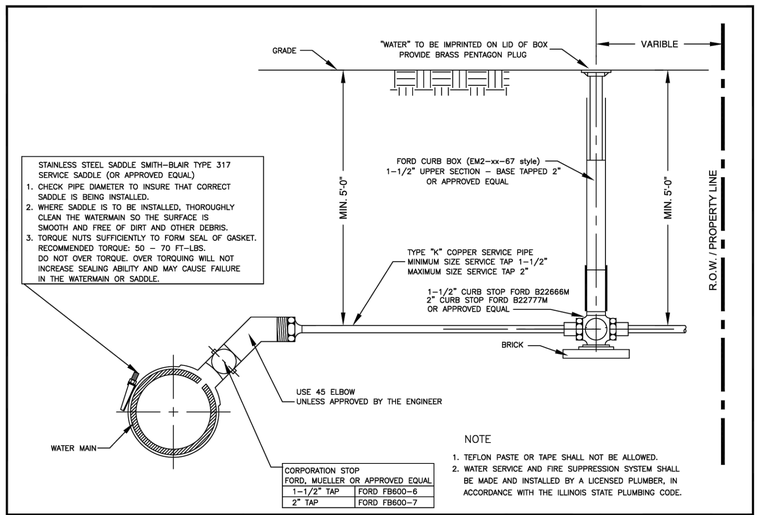
SECTION A - A

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	REVISIONS		DETAIL NO.
	S.W.	4-13-00 AUTOCAD FILE	W-4
FILE LOCATION	C.C.	03-07-07 PER COMMENTS	
T:\ENGINEERING\STANDARDS	S.W.	08-15-08 CONCENTRIC CONE	
	K.A.G.	01-03-18 TRACER WIRE	



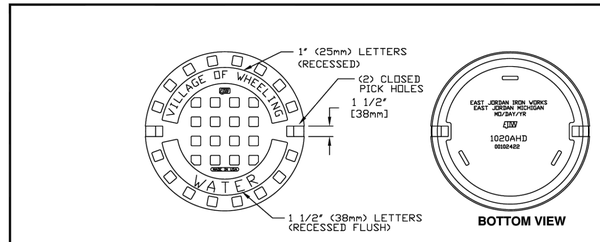
CORPORATION STOP FORD, MUELLER OR APPROVED EQUAL	
1-1/2" TAP	FORD FB600-6
2" TAP	FORD FB600-7

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.

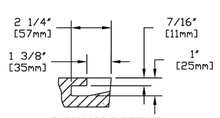
VILLAGE OF WHEELING ILLINOIS | VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

TYPICAL SERVICE TAP STANDARD

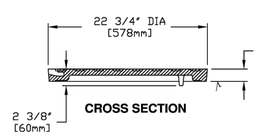
VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	5-12-06 PER COMMENTS	W-6
FILE LOCATION	K.R.G.	9-11-06 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	S.W.	8-15-08 ADDED 45 ELBOW	
	K.A.G.	12-11-18 TAPPING SLEEVE	



BOTTOM VIEW



PICK HOLE DETAIL



CROSS SECTION

(*) 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

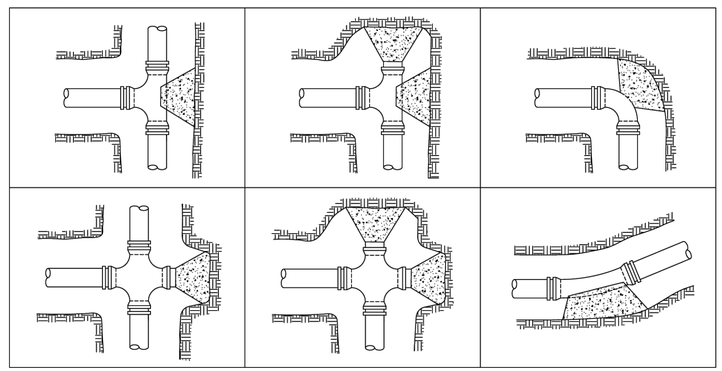
MAT'L SPEC. COVER - GRAY IRON ASTM A48 CL 35

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.
	S.W.	2-24-00 AUTOCAD FILE	W-7
FILE LOCATION	S.W.	9-19-01 PER COMMENTS	
T:\ENGINEERING\STANDARDS	S.W.	11-12-02 NPDES PHASE II	
	S.W.	02-07-03 ADDING NEENAH	
	C.J.C.	01-29-08 AUTOCAD FILE	

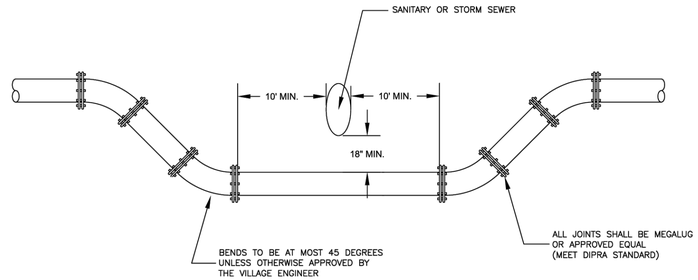


NOTE
1. ALL BLOCKING SHALL BE CONSTRUCTED WITH POURED CLASS SI CONCRETE AGAINST UNDISTURBED VERTICAL EARTH FACE WITH A MINIMUM WIDTH OF 12 INCHES.
2. RESTRAINED JOINTS AND THRUST BLOCKS TO BE USED AT ALL BENDS, AT TEES AND AT CROSSES AS SHOWN ABOVE, OR AS REQUIRED PER THE VILLAGE ENGINEER.
3. THE FITTINGS 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.
	S.W.	4-27-00 AUTOCAD FILE	W-8
FILE LOCATION	K.R.G.	9-11-06 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	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.
	S.W.	5-30-00 AUTO-CAD FILE	W-9
FILE LOCATION	S.W.	5-11-06 PER COMMENTS	
T:\ENGINEERING\STANDARDS	C.J.C.	01-20-08 AUTOCAD FILE	
	K.A.G.	01-21-20 NOTES	

AS-BUILT

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED - ML	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	37	35
CHECKED - MD		
DATE - 06/25/2025		

P:\WHELVA\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG CONSTRUCTION DETAILS - 4
Plotted: 2/6/2026 2:19 PM By: TBELTZ
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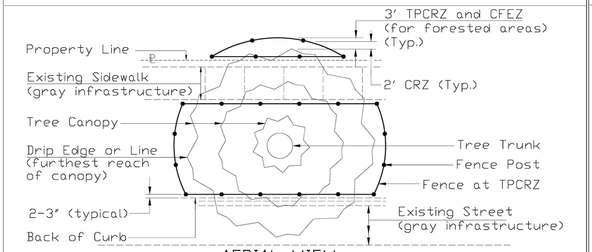
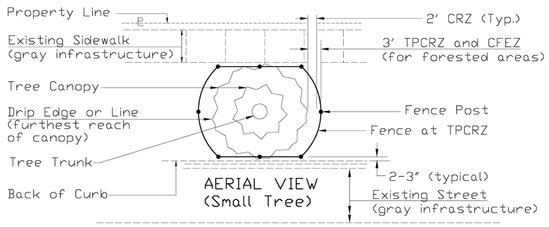
TREE PROTECTION - FENCING
(Highly Urbanized Areas)



AERIAL VIEW
(Large Tree)



AERIAL VIEW
(Small Tree)

Notes:

1. Call J.U.L.I.E. (800-892-0123) for the location of existing utilities 48 hours prior to commencement of work.
2. The CRZ is located 2' from the farthest outreaching branch (drip edge) or the distance as determined by the ISA trunk diameter method or whichever is greater.
3. On sides of the tree not constricted by gray infrastructure, the fence shall be located 1 foot from the Critical Root Zone (CRZ) of the protected tree, thus creating the Tree Protection Critical Root Zone (TPCRZ). The Critical Forest Edge Zone (CFEZ), for forested areas, shall also be located at the TPCRZ.

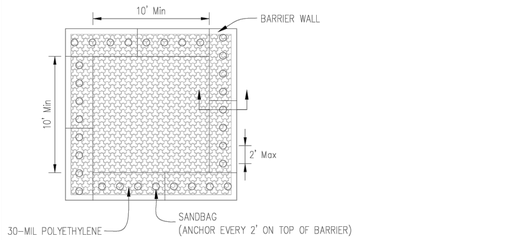
REFERENCE		STANDARD DWG. NO.
Project		IUM-690-B
Designed ____ Date ____		SHEET 1 OF 2
Checked ____ Date ____		DATE 09-14-2017
Approved ____ Date ____		

TREE PROTECTION - FENCING
(Highly Urbanized Areas)

Notes: (cont.)

4. On sides of the tree where there is gray infrastructure conflict the fence shall be 3 to 4 inches from the structure. Where the structure is a sidewalk and the CRZ goes beyond the sidewalk to the adjoining greenspace, the Tree Protection Fencing shall continue to the CRZ without impeding the flow of the traffic of the sidewalk.
5. Fence Posts shall be either 6' steel posts @ 1.33Lbs./Ft. or 2" x 2" nominal wood posts.
6. A chain link fence with Construction Specification Chain Link Fence IUM 91 or better (as approved by the local Forester per local ordinances singularly or in tandem with the project Engineer) shall be used. Fencing shall be a minimum height of 4'. Metal posts shall be placed 6' on center (OC) and fencing is securely anchored to the ground.
7. Outside the TPCRZ, erosion and sediment control measures shall be installed to prevent sediment reaching the TPCRZ. These measures shall extend out from the fence 10' and shall be continuous around the perimeter of the fence. These measures include, but are not limited to vegetative filter strip, rolled excelsior blankets and woodchip mulch with a 3" to 5" depth. Other methods may be used if approved by the Professional Forester, Certified Arborist or Horticulturalist. Installation shall cause no disturbance to soils.

REFERENCE		STANDARD DWG. NO.
Project		IUM-690-B
Designed ____ Date ____		SHEET 2 OF 2
Checked ____ Date ____		DATE 09-14-2017
Approved ____ Date ____		

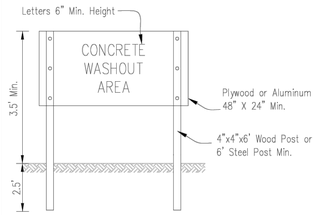


PLAN VIEW



Sandbag Anchor

BARRIER WALL ANCHOR SECTION



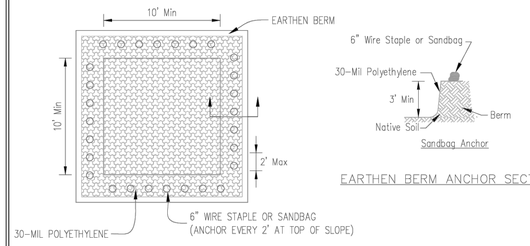
SIGN DETAIL

NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Sheet 1 of 2 Sheets	Rev. Drawing No. IUM-690-B	Rev. No.	TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

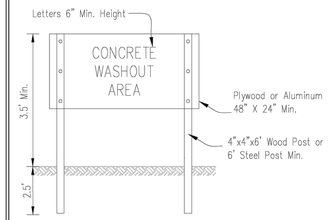
Designed ____ Date ____
Drawn B. JOHNSON 6/08
Checked ____
Approved ____



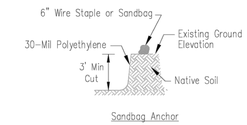
PLAN VIEW

Sandbag Anchor

EARTHEN BERM ANCHOR SECTIONS



SIGN DETAIL



Sandbag Anchor

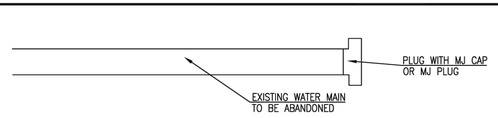
SUBGRADE ANCHOR SECTIONS

NOTES:

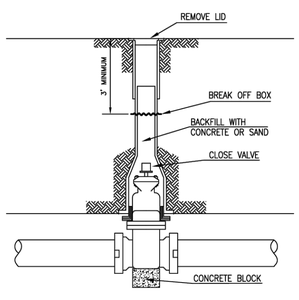
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Sheet 2 of 2 Sheets	Rev. Drawing No. IUM-690-B	Rev. No.	TEMPORARY CONCRETE WASHOUT FACILITY - EARTHEN TYPE

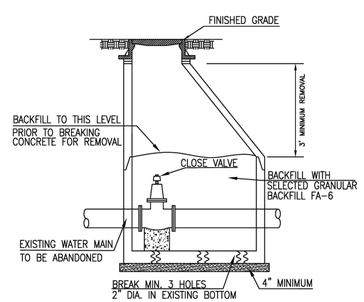
Designed ____ Date ____
Drawn B. JOHNSON 6/08
Checked ____
Approved ____



WATER MAIN ABANDONMENT DETAIL

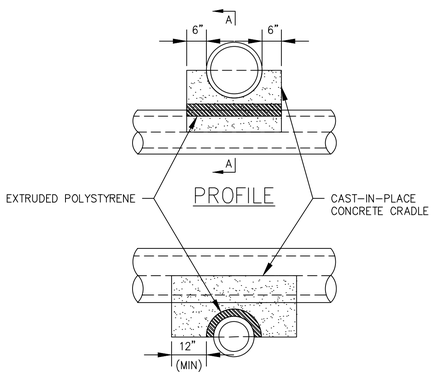


VALVE BOX ABANDONMENT DETAIL



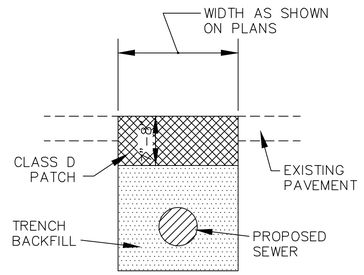
VALVE VAULT ABANDONMENT DETAIL

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 FILE LOCATION T:\ENGINEERING\STANDARDS	REVISIONS DETAIL NO. W-11



SECTION A-A

CONCRETE CRADLE
FOR PIPE SUPPORT
NO SCALE



PAVEMENT PATCHING
FULL DEPTH - DETAIL
NO SCALE

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

BAXTER & WOODMAN consulting engineers	CONSULTANTS	REVISED -
		REVISED -
		REVISED -
		REVISED -

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED - ML	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	37	36
CHECKED - MD		
DATE - 06/25/2025		

P:\WHEL\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG CONSTRUCTION DETAILS - 5
Plotted: 2/6/2026 2:19 PM By: TBETTE
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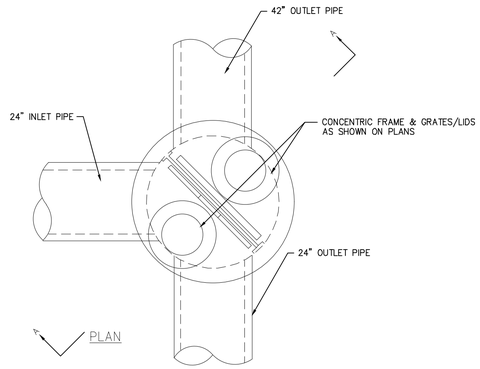
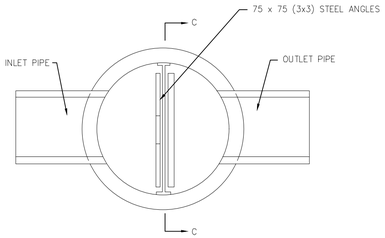
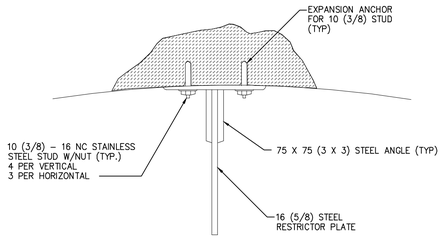
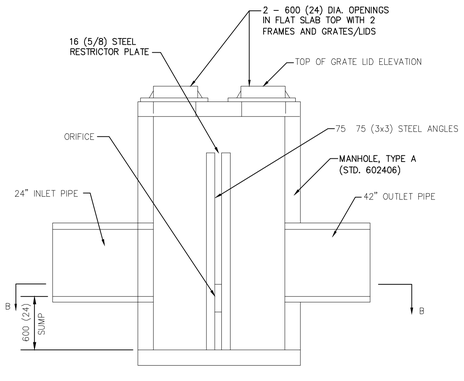




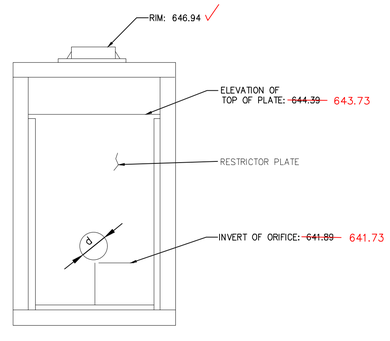
SECTION B–B



ANGLE FASTENER DETAIL



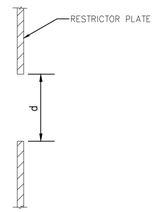
SECTION A–A



SECTION C–C

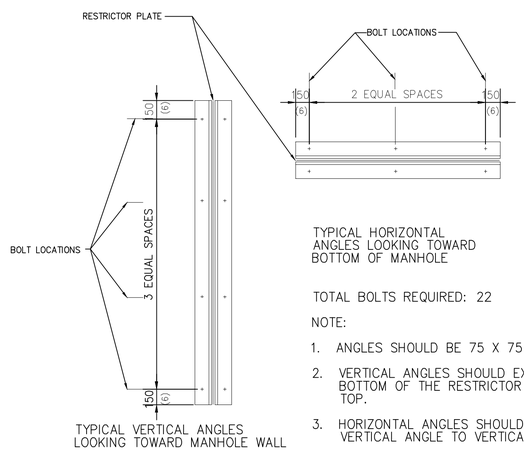
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.



INLET DETAIL ORIFICE

STR. NO.	STATION LOCATION OFFSET	MANHOLE DIAMETER	FRAME AND GRATE	ORIFICE	INVERT OF ORIFICE	ELEVATION OF TOP OF PLATE OVERFLOW
P-ST-MH-15	SEE SHEET 19	7'	TY 1 FRAME, CL	3'	~~641.89~~	~~643.89~~
					641.73	643.73



TYPICAL VERTICAL ANGLES LOOKING TOWARD MANHOLE WALL

TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 75 X 75 X 10 (3X3X3/8)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAIL

RESTRICTOR TYPE	
2	6
SHARP EDGED	ROUNDED
C=.61	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

RESTRICTOR MANHOLE DETAIL

CONSTRUCTION
RECORD DRAWING PREPARED FROM INFORMATION PROVIDED BY MARTAM CONSTRUCTION
DATE 1-15-26 BY LFG/TB

AS-BUILT

BAXTER & WOODMAN consulting engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

VILLAGE OF WHEELING, ILLINOIS
SOUTH DUNHURST STORMWATER IMPROVEMENTS PHASE 2

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 210838

DESIGNED – ML
DRAWN – JJS
CHECKED – MD
DATE – 06/25/2025

TOTAL SHEETS	SHEET NO.
37	37

P:\WHELV\210838-SOUTH DUNHURST STORM\CAD\PHASE_2\01_CIVIL 3D\01_SHTS-PLANS\210838-DUNHURST-COVER_GEN_DETS_PHASE 2.DWG CONSTRUCTION DETAILS - 6
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VILLAGE OF WHEELING

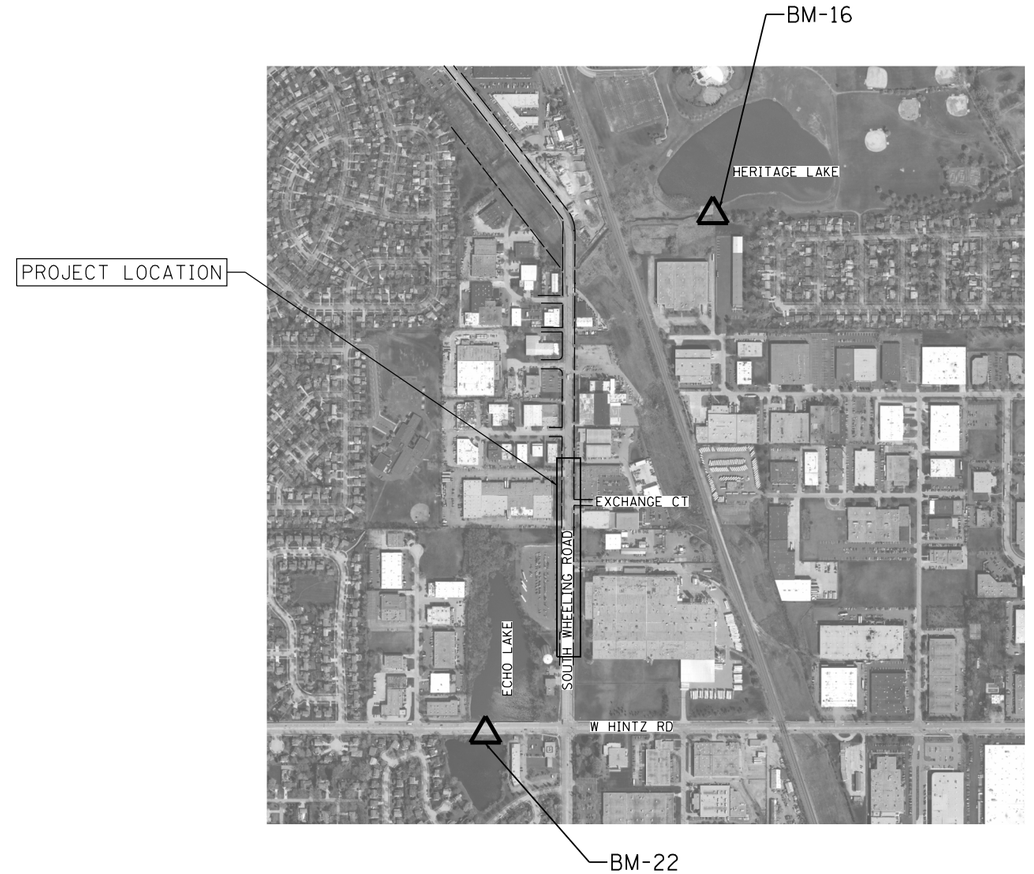
SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS

INDEX OF SHEETS

1	COVER SHEET
2 – 3	GENERAL NOTES
4	MWRD GENERAL NOTES
5	SUMMARY OF QUANTITIES
6	EXISTING UTILITY AND REMOVAL PLAN
7	PROPOSED EROSION CONTROL & RESTORATION PLAN
8 – 10	PROPOSED DRAINAGE PLAN AND PROFILE
11 – 15	DETAILS

STATE STANDARDS

000001–06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001–07	TEMPORARY EROSION CONTROL SYSTEMS
442201–03	CLASS C AND D PATCHES
542001–06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA
602001–02	CATCH BASIN TYPE A
602421–05	MANHOLE TYPE A 9' DIAMETER
602601–02	MANHOLE STEPS
602701–02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604011–05	FRAME AND GRATE TYPE 3V.
604036–03	GRATE TYPE 8
606001–06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006–05	OFF–RD OPERATIONS, 2L, 2W, 15'(4.5 M) TO 24"(600 MM) FROM PAVEMENT EDGE
701101–05	OFF–RD OPERATIONS, MULTILANE, 15'(4.5 M) TP 24"(600 MM) FROM PAVEMENT EDGE
701301–04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311–03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS – DAY ONLY
701427–05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < =40 MPH
701606–10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611–01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701–10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801–06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901–01	TRAFFIC CONTROL DEVICES



PROJECT LOCATION MAP

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT J.U.L.I.E. AND THE VILLAGE OF WHEELING PUBLIC WORKS DEPARTMENT TO ARRANGE FOR A JOINT MEET IN ORDER TO LOCATE ALL UNDERGROUND UTILITIES. THIS MUST BE DONE AT LEAST 48 HOURS IN ADVANCE OF ANY PLANNED EXCAVATION. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF THE TIME AND PLACE OF SAID JOINT UTILITY MEET.

FOR UNDERGROUND UTILITY LOCATIONS CALL J.U.L.I.E. AT 811 OR 1–800–892–0123 AND CALL VILLAGE OF WHEELING ENGINEERING DIVISION AT 1–847–459–2620

PLANS PREPARED BY:

Ciorba Group, Inc.
DESIGN FIRM
REGISTRATION NUMBER
184–001016
CONSULTING ENGINEERS
5507 NORTH CUMBERLAND AVENUE
CHICAGO ILLINOIS (773) 775–4009

JIAN XI
062-058208
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

DATE: 7/23/2018
SEAL EXPIRES: 11/30/2019

BENCHMARK (NAVD 88)

VILLAGE BENCHMARK 16
2.5" ALUMINUM DISK STAMPED
VILLAGE OF WHEELING - SURVEY MARKER
60" STORM SEWER CONTROL STRUCTURE,
S OF HERITAGE LAKE
ELEVATION: 639.55 FT

VILLAGE BENCHMARK 22
2.5" ALUMINUM DISK STAMPED
VILLAGE OF WHEELING - SURVEY MARKER
S. SIDE OF HINTZ RD. BRIDGE, 500' W.
OF WHEELING RD
ELEVATION: 649.12 FT

DATE PLOTTED = 7/23/2018 11:58:45 AM
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PLOT STYLES = $PLOTSTYLE$
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ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = $USER$	DESIGNED - JX	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - TW	REVISED -
PLOT DATE = 7/23/2018	DATE - 7/23/2018	REVISED -

VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
COVER SHEET

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	1
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

A. GENERAL

1. IT SHALL BE THE RESPONSIBILITY OF 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. THE CONCTRACTOR SHALL MEET ALL THE SPECIAL CONDITIONS IN USACE PERMIT LRC-2017-0035 PRIOR TO ANY WORK WITHIN WATERS OF THE U.S. (SHOWN ON PLAN).

3. 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.

4. 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.

5. 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. THE CONTRACTOR SHALL COORDINATE WITH AT&T AND NICOR UTILITY RELOCATION SCHEDULE PRIOR TO CONSTRUCTION TO AVOID POTENTIAL CONFLICT AND DAMAGE TO EXISTING UTILITIES.

6. 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.

7. 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.

8. 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.

9. 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.

10. ONE SET OF STAMPED APPROVED PLANS SHALL BE ON SITE AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

11. 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 THREE (3) 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.

12. 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 CLEANOUTS MUST BE SHOWN WITH TIED DIMENSIONS. THE ELEVATION OF ALL RIMS AND INVERTS SHALL BE VERIFIED BY THE CONTRACTOR AND SHOWN ON THE "RECORD DRAWINGS".

13. OSHA RULES, REGULATIONS AND REQUIREMENTS SHALL BE STRICTLY ADHERED TO DURING THE EXECUTION OF ALL WORK TO BE PERFORMED UNDER THE APPROVED DRAWINGS.

14. THE CONTRACTOR SHALL PROVIDE VIDEO TAPE(S) OR STILL PICTURES AS REQUIRED BY THE VILLAGE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

15. THE CONTRACTOR SHALL RESTORE ALL DISTURBED OFF-SITE AREAS, INCLUDING THE TEMPORARY CONSTRUCTION EASEMENT AREA, TO AT LEAST A CONDITION THAT EXISTED PRIOR TO CONSTRUCTION AT NO ADDITIONAL COSTS TO THE VILLAGE. ⚠1

16. ALL UNPAVED AREAS OF THE RIGHT-OF-WAY ARE TO BE SODDED. RESTORE RIGHT-OF-WAY WITH SIX (6) INCHES OF TOPSOIL AND SOD, EXCEPT THE PROPOSED SWALE WILL USE IDOT CLASS 4A SEED MIXTURE WITH EROSION CONTROL BLANKET.

17. ALL OBSTRUCTIONS THAT ARE NOT APPROVED BY THE VILLAGE AND WHICH CURRENTLY EXIST IN THE RIGHT-OF-WAY SHALL BE REMOVED, WHICH INCLUDE ALL ROCKS AND BOULDERS.

18. ALL ELEVATIONS ARE BASED UPON NAVD 88 DATUM.

B. EARTHWORK/EROSION & SEDIMENTATION CONTROL

1. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL ITEMS PRIOR TO COMMENCEMENT OF ANY WORK.

2. THE CONTRACTOR SHALL MAINTAIN EXISTING POSITIVE DRAINAGE FROM OFF-SITE AT ALL TIMES DURING CONSTRUCTION.

3. WITHIN THE LIMITS OF PROPOSED GRADING THE SOIL SHALL BE COMPACTED TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MODIFIED PROCTOR DRY DENSITY IN ACCORDANCE WITH ASTM D 1557-78:
   - A) UNDER STRUCTURES. BUILDING SLABS, STEPS AND PAVEMENTS. COMPACT SIX (6) INCH MAXIMUM LIFTS OF SUB-GRADE. BACKFILL OR FILL MATERIAL AT 95% MODIFIED PROCTOR DRY DENSITY.
   - B) UNDER WALKWAYS. COMPACT SIX (6) INCH MAXIMUM LIFTS OF DRY SUB-GRADE, BACKFILL, OR FILL MATERIAL AT 95% MODIFIED PROCTOR DRY DENSITY.
   - C) UNDER LAWN OR UNPAVED AREAS. COMPACT SIX (6) INCH MAXIMUM LIFTS OF SUB-GRADE, BACKFILL, OR FILL MATERIAL AT 85% MODIFIED PROCTOR DRY DENSITY.

4. ALL EROSION CONTROL WORK SHALL COMPLY WITH "ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL."

5. STRIPPING OF VEGETATION, GRADING OR OTHER SOIL DISTURBANCE, ESPECIALLY IN DESIGNATED WETLAND AREAS, SHALL BE DONE IN A MANNER WHICH WILL MINIMIZE SOIL EROSION, AND SHALL BE IN ACCORDANCE WITH THE APPROVED DRAWINGS, MITIGATION AND PERMIT REQUIREMENTS.

6. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO MINIMIZE EARTHWORK IN AREAS WHERE TREES ARE TO BE SAVED AS SHOWN ON THE PLANS OR DETERMINED IN THE FIELD.

7. THE EXTENT OF THE AREA WHICH IS EXPOSED AND FREE OF VEGETATION AND THE DURATION OF ITS EXPOSURE SHALL BE KEPT WITHIN PRACTICAL LIMITS AS DIRECTED BY THE VILLAGE OF WHEELING.

8. SEDIMENTATION SHALL BE RETAINED ON SITE. SEDIMENT FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF ALL RE-GRADED AREAS OR AS REQUIRED TO PREVENT SEDIMENT FROM ENTERING AND/OR LEAVING THE SITE.

9. DUST PRODUCED FROM THE SITE SHALL BE KEPT TO A MINIMUM DURING DRY PERIODS BY SPRAYING WATER AS REQUIRED TO THE VILLAGE OF WHEELING ENGINEERING INSPECTOR'S SATISFACTION AND IS TO BE CONSIDERED INCLUDED IN THE CONTRACT.

10. ALL MUD SHALL BE REMOVED FROM ALL TIRES BEFORE LEAVING THE SITE AND THE ROADS SHALL BE KEPT CLEAN AND CLEAR OF MUD AND DEBRIS AT ALL TIMES.

11. CULVERTS AND DRAINAGE DITCHES SHALL BE KEPT CLEAN AND CLEAR OF OBSTRUCTIONS DURING THE CONSTRUCTION PERIOD.

12. SILT FENCES SHALL BE INSPECTED FREQUENTLY AND MAINTAINED OR REPLACED AS REQUIRED TO MAINTAIN BOTH THEIR EFFECTIVENESS AND INTEGRITY. THE UNDERSIDE OF BALES SHALL BE KEPT IN CLOSE CONTACT WITH THE EARTH BELOW AT ALL TIMES TO PREVENT WATER FROM WASHING BENEATH THEM.

13. WATER COURSES AND DRAINAGE SWALES ADJACENT TO CONSTRUCTION ACTIVITIES SHALL BE MONITORED AS NECESSARY, FOR EVIDENCE OF SILT INTRUSION AND OTHER ADVERSE ENVIRONMENTAL IMPACTS. ANY PROBLEMS OR DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY UPON THEIR DISCOVERY.

14. THE CONTRACTOR SHALL INSTALL TEMPORARY ORANGE FENCE AROUND ALL TREES TO REMAIN AS WELL AS WETLAND AREAS THAT ARE TO BE MITIGATED.

C. GENERAL UNDERGROUND UTILITIES

1. ALL SEWER CONSTRUCTION SHALL CONFORM TO THE APPROVED PERMIT PLANS UNLESS REVISIONS HAVE BEEN APPROVED BY THE VILLAGE, AS WELL AS ANY AND ALL OTHER AGENCIES.

2. TRENCH BACKFILL SHALL BE PROVIDED UNDER AND WITHIN TWO FEET (2') OF ALL EXISTING AND PROPOSED PAVEMENT. CONCRETE CURB & GUTTER SHALL BE CONSIDERED A PART OF THE EXISTING AND PROPOSED PAVEMENT. TRENCH BACKFILL MATERIAL SHALL BE CA-6, GRADE 8, CRUSHED LIMESTONE, VIRGIN MATERIAL UNLESS OTHERWISE APPROVED.

3. ALL MANHOLES AND CATCH BASIN STRUCTURES MUST BE A MINIMUM OF 48" IN DIAMETER, VALVE VAULTS MUST BE A MINIMUM OF 60" DIAMETER, UNLESS APPROVED OTHERWISE.

4. ALL SEWER CONSTRUCTION REQUIRES STONE BEDDING 1/4" TO 1" IN SIZE, (I.D.O.T. EQUIVALENT CA-11, CA-13) WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES, NOR GREATER THAN EIGHT (8) INCHES.

5. IF REQUIRED, ALL TRENCHES SHALL BE DEWATERED PRIOR TO LAYING ANY PIPE OR JOINTING. TRENCHES SHALL BE DEWATERED TO MAINTAIN THE WATER LEVEL BELOW THE BASE OF THE BEDDING.

6. STRUCTURES SHALL HAVE A MAXIMUM OF TWELVE INCHES (12") OF ADJUSTMENT RINGS WITH ANY COMBINATION UP TO A MAXIMUM OF THREE (3) RINGS.

7. CONCENTRIC CONE SECTIONS SHALL BE USED ON ALL MANHOLES, CATCH BASINS, VAULTS, ETC. UNLESS IT IS DEPTH PROHIBITED OR APPROVED OTHERWISE BY THE VILLAGE ENGINEER.

8. A MINIMUM TEN FEET (10') HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATERMAIN AND SEWER OR DRAIN LINES UNLESS PRECLUDED BY LOCAL CONDITIONS. WHEN THE WATERMAIN IS LOCATED CLOSER THAN TEN FEET (10') HORIZONTALLY OR THE INVERT OF THE WATERMAIN IS LOCATED CLOSER THAN EIGHTEEN INCHES (18") VERTICALLY ABOVE THE CROWN OF ANY SEWER OR DRAIN LINE, REFER TO ITEM 9.

9. THE SEWER OR DRAIN LINE SHALL BE CONSTRUCTED OF WATER MAIN QUALITY PIPES COMPLYING WITH SPECIAL PROVISIONS AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS IN ACCORDANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (I.E.P.A.) REQUIREMENTS.

10. WHEN A WATERMAIN IS CROSSING OVER A SEWER OR DRAIN LINE CLOSER THAN EIGHTEEN INCHES (18") VERTICALLY ABOVE THE CROWN OF THAT SEWER OR DRAIN LINE, THEN THAT SEWER OR DRAIN LINE SHALL BE CONSTRUCTED ACCORDING TO THE REQUIREMENTS LISTED IN ITEM 9 ABOVE.

11. IF THE WATERMAIN PASSES UNDER A SEWER OR DRAIN LINE, THE FOLLOWING CONDITIONS SHALL BE MET: A VERTICAL SEPARATION OF EIGHTEEN INCHES (18") BETWEEN THE INVERT OF THE SEWER OR DRAIN LINE AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WITH SUPPORT PROVIDED FOR THE SEWER OR DRAIN LINE(S) TO PREVENT ANY MOVING OR SETTLING, RUPTURE OR BREAKING, AND SEWER OR DRAIN LINE SHALL BE CONSTRUCTED AS DESCRIBED IN ITEM 9 ABOVE.

12. THE COST OF ALL REQUIRED TESTING OF UNDERGROUND UTILITIES SHALL BE CONSIDERED INCLUDED IN THE CONSTRUCTION COST OF THE SAME.

13. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE. THE SEWER SHALL BE CIRCULAR SAW-CUT BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.

14. SEWER CONNECTIONS TO AN EXISTING STRUCTURE SHALL BE MACHINE CORED.

GENERAL NOTES

C. GENERAL UNDERGROUND UTILITIES (CONT.)

15. A FLEXIBLE RUBBER BOOT SHALL BE USED AT ALL SANITARY SEWER MANHOLE PENETRATION CONNECTIONS.

16. PROTECT AND/OR COVER ALL PIPES AND UNDERGROUND STRUCTURES UNTIL FINAL GRADING, PAVING AND LANDSCAPING ARE COMPLETE.

17. FOR MODIFICATION OR REPAIR OF ALL SEWERS; ADDITION OF, OR REPAIR OF, SEWER CLEAN OUTS, NON SHEAR COUPLINGS SHALL BE USED IN CONNECTION OF SEWER PIPES WITH PRIOR APPROVAL FROM VILLAGE ENGINEERING DIVISION OF THE DEPARTMENT OF PUBLIC WORKS.

D. STORM SEWER

1. ALL STORM SEWER PIPES IN THE PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76 CLASS IV WITH CONFINED O-RING GASKET JOINTS IN COMPLIANCE WITH ASTM C-361 OR TYLOX SUPER SEAL GASKET CONFORMING TO ASTM C-361.

2. MINIMUM DIAMETER OF STORM SEWER SHALL BE 12" UNLESS APPROVED OTHERWISE.

3. NO STORM WATER SHALL BE DISCHARGED TO THE SANITARY SEWER SYSTEM.

4. ALL STORM STRUCTURES ARE TO HAVE OPEN (GRATE) LIDS UNLESS SPECIFIED AS HAVING CLOSED LIDS (C.L.). ALL CLOSED LIDS SHALL HAVE THE WORDS "VILLAGE OF WHEELING - STORM" CASTED IN IT.

5. RIM GRADES FOR STORM SEWER STRUCTURES LOCATED WITHIN THE CURB AND GUTTER ARE FLOW LINE ELEVATIONS. ELEVATIONS OF FLARED END SECTIONS SHALL BE INTERPRETED AT THE INVERT OF THE FLARED END SECTION.

6. INLETS SHALL BE CONNECTED TO A STORM SEWER AFTER FLOWING THROUGH A CATCH BASIN AND SHALL NOT DISCHARGE DIRECTLY TO THE STORM SEWER.

7. ALL MANHOLES SHALL BE TYPE A WITH A MINIMUM INSIDE DIAMETER OF 48 INCHES.

8. ALL DOWNSPOUTS, FOOTING DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER OR OVER GROUND AS APPROVED BY THE VILLAGE OF WHEELING.

E. PAVEMENT REPLACEMENT/REPAIR

1. ASPHALT AND CONCRETE PAVEMENTS SHALL BE SAWCUT FULL-DEPTH PRIOR TO EXCAVATION. ALL SAWCUTS SHALL BE INCLUDED IN THE COST OF VARIOUS REMOVAL ITEMS. DAMEGED PAVEMENT EDGES SHALL BE SAWCUT AND REMOVED PRIOR TO INSTALLING NEW PAVEMENT.

2. IN THE REMOVAL OF SIDEWALKS, CURB, GUTTER OR PAVEMENT, THE USE OF ANY TYPE OF CONCRETE BREAKER THAT WILL DAMAGE THE UNDERGROUND STRUCTURES WILL NOT BE PERMITTED.

3. REPLACEMENT MATERIAL TYPES AND THICKNESS SHALL BE AS INDICATED ON THE PLANS OR IN THE SPECIAL PROVISIONS.

4. PAVEMENT REPAIR LIMITS SHALL BE AS INDICATED ON THE PLANS OR IN THE SPECIAL PROVISIONS. PAVEMENT REPAIRS OUTSIDE OF THESE LIMITS SHALL BE AT THE CONTRACTOR'S EXPENSE.

5. ALL PAVEMENT REPLACEMENT/REPAIR WORK WILL BE IN ACCORDANCE WITH THE VILLAGE STANDARDS AND SPECIFICATIONS.

F. MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROL ON WHEELING ROAD IS PER IDOT HIGHWAY STANDARDS 701006, 701101, 701301, 701311, 701427, 701606, 701611, 701701, 701801, AND 701901 MAINTAINING BI-DIRECTIONAL TRAFFIC WITH TEMPORARY DAY TIME LANE CLOSURES.

LEGEND

EXISTING		PROPOSED
	SANITARY SEWER	
	STORM SEWER	
	COMBINED SEWER	
W	WATER LINE	
	R.O.W.	
A	ABOVE GROUND POWER LINE (OE)	
X X	FENCE LINE	
635	CONTOUR	635
	ATT DUCT	
	ATT BURIED CABLE	
	STORM SEWER REMOVAL	
	SILT FENCE	
	ATT PEDESTAL	
	FIRE HYDRANT	
	LIGHT POLE	
	B-BOX	
	MANHOLE	
	CATCH BASIN	
	END SECTION	
	INLET/2' CATCH BASIN	
	INLET FILTER	
	INLET PROTECTION	
	OUTLET PROTECTION	
	TREE	
	TREE PROTECTION (TEMPORARY FENCE)	
	ITEM REMOVAL	
	WETLAND	
	DRIVEWAY PAVEMENT REMOVAL	
	SIDEWALK REMOVAL	
	CURB REMOVAL	
	PAVEMENT PATCHING	
	TRENCH BACKFILL	
	CURB REPLACEMENT	
	PCC SIDEWALK, 5"	
	DRIVEWAY PATCHING	
	STABILIZED CONSTRUCTION ENTRANCE	
	SEEDING, CLASS 1 WITH EROSION CONTROL BLANKET	
	SEEDING, CLASS 4A WITH EROSION CONTROL BLANKET	
	6" TOPSOIL AND SOD	
	ASPHALT SURFACE COURSE REMOVAL & REPLACEMENT (1.5")	
	PERMANENT DRAINAGE EASEMENT	
	TEMPORARY CONSTRUCTION EASEMENT	
	EXISTING SPOT ELEVATION	XXX.XXX

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@clorba.com

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VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
GENERAL NOTES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	3
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

MWRD GENERAL NOTES

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:

- THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;

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).

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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 UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

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. 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.

9. 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.

10. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

11. 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.

12. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

13. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

14. 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.

15. 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.

16. 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 OR FILTER BAG. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGED TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

E. EROSION AND SEDIMENT CONTROL (CONT.)

17. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

18. 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.

19. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

20. 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.

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@clorba.com

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VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
MWRD GENERAL NOTES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	4
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

ITEM #	DESCRIPTION	UNIT	TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	28
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	99
20101100	TREE TRUNK PROTECTION	EACH	4
20200100	EARTH EXCAVATION	CU YD	71
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50
20800150	TRENCH BACKFILL	CU YD	318
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	2,783
25000100	SEEDING, CLASS 1	ACRE	0.50
25000312	SEEDING, CLASS 4A	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	35
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	35
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	35
25100630	EROSION CONTROL BLANKET	SQ YD	2,417
25200100	SODDING	SQ YD	366
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	68 ⚠1
28000400	PERIMETER EROSION BARRIER	FOOT	2,161
28000510	INLET FILTERS	EACH	26
28100107	STONE RIPRAP, CLASS A4	SQ YD	32
28200200	FILTER FABRIC	SQ YD	32
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	27
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	151
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	310
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	79
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	592
44000600	SIDEWALK REMOVAL	SQ FT	151
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	7
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	82
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	43
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	208
54213501	END SECTIONS 66"	EACH	1
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	99
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	34
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	8
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	196
550A0180	STORM SEWERS, CLASS A, TYPE 1 42"	FOOT	98
550A0190	STORM SEWERS, CLASS A, TYPE 1 48"	FOOT	42
550A0220	STORM SEWERS, CLASS A, TYPE 1 66"	FOOT	261
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	91
550A0510	STORM SEWERS, CLASS A, TYPE 2 66"	FOOT	294
55100500	STORM SEWER REMOVAL 12"	FOOT	190 ⚠2
55100700	STORM SEWER REMOVAL 15"	FOOT	170
55100900	STORM SEWER REMOVAL 18"	FOOT	211
55101100	STORM SEWER REMOVAL 21"	FOOT	27

ITEM #	DESCRIPTION	UNIT	TOTAL
55101200	STORM SEWER REMOVAL 24"	FOOT	210
56106400	ADJUSTING WATER MAIN 8"	FOOT	24
56106600	ADJUSTING WATER MAIN 12"	FOOT	22
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	2 ⚠1
60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1 ⚠1
60200310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	7 ⚠1
60204505	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	3 ⚠2
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1
60224448	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 8 GRATE	EACH	1
60224468	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 8 GRATE	EACH	1
60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
60250620	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 3V FRAME AND GRATE	EACH	3
60500040	REMOVING MANHOLES	EACH	6
60500050	REMOVING CATCH BASINS	EACH	2
60500060	REMOVING INLETS	EACH	5
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	411
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	181
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	10 ⚠2
67100100	MOBILIZATION	LSUM	1
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	200 ⚠2
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	2
X0327680	TRENCH DRAIN	FOOT	40
X2800500	INLET PROTECTION, SPECIAL	EACH	7
X0322792	BEDDING MATERIAL, SPECIAL	CU YD	10 ⚠2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
XX008195	EXPLORATION EXCAVATION (UTILITY)	FOOT	50 ⚠2
Z0004518	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5"	SQ YD	79
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	85
Z0013798	CONSTRUCTION LAYOUT	LSUM	1
Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	127
Z0056650	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 15"	FOOT	49
Z0056654	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 24"	FOOT	44
Z0056675	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 30"	FOOT	291
XXXXXXX1	MANHOLE, TYPE A, 4' DIA,NEENAH R-2557-A4 FRAME AND GRATE	EACH	2
XXXXXXX2	INLET, TYPE A, 2' DIA, WITH TYPE 3V FRAME AND GRATE	EACH	6
XXXXXXX3	STORM SEWER WYE CONNECTION	EACH	4
XXXXXXX4	SIGN REMOVAL AND REPLACEMENT	EACH	5
XXXXXXX5	STORM SEWER INSERTA TEE CONNECTION	EACH	1
XXXXXXX6	IN-STREAM WORK	LSUM	1
XXXXXXX7	CONSTRUCTION CONTINGENCY	LSUM	1

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ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
2500 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = $USER$
PLOT SCALE = $SCALE$
PLOT DATE = 8/15/2018

DESIGNED - JX
DRAWN - JS
CHECKED - TW
DATE - 7/23/2018

REVISED - 8/14/2018 ⚠1
REVISED - 8/15/2018 ⚠2
REVISED -
REVISED -

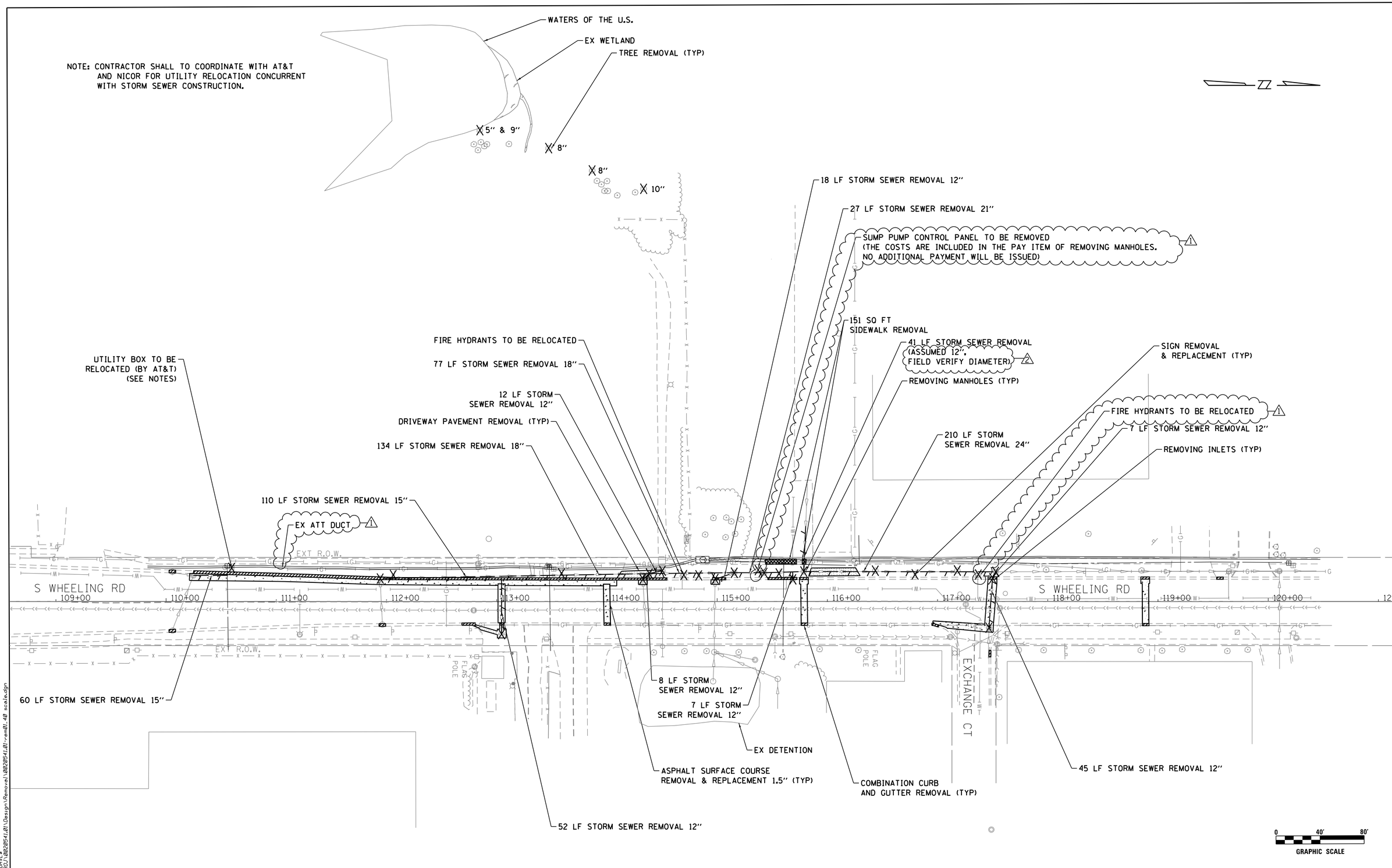
VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	5
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

NOTE: CONTRACTOR SHALL TO COORDINATE WITH AT&T AND NICOR FOR UTILITY RELOCATION CONCURRENT WITH STORM SEWER CONSTRUCTION.



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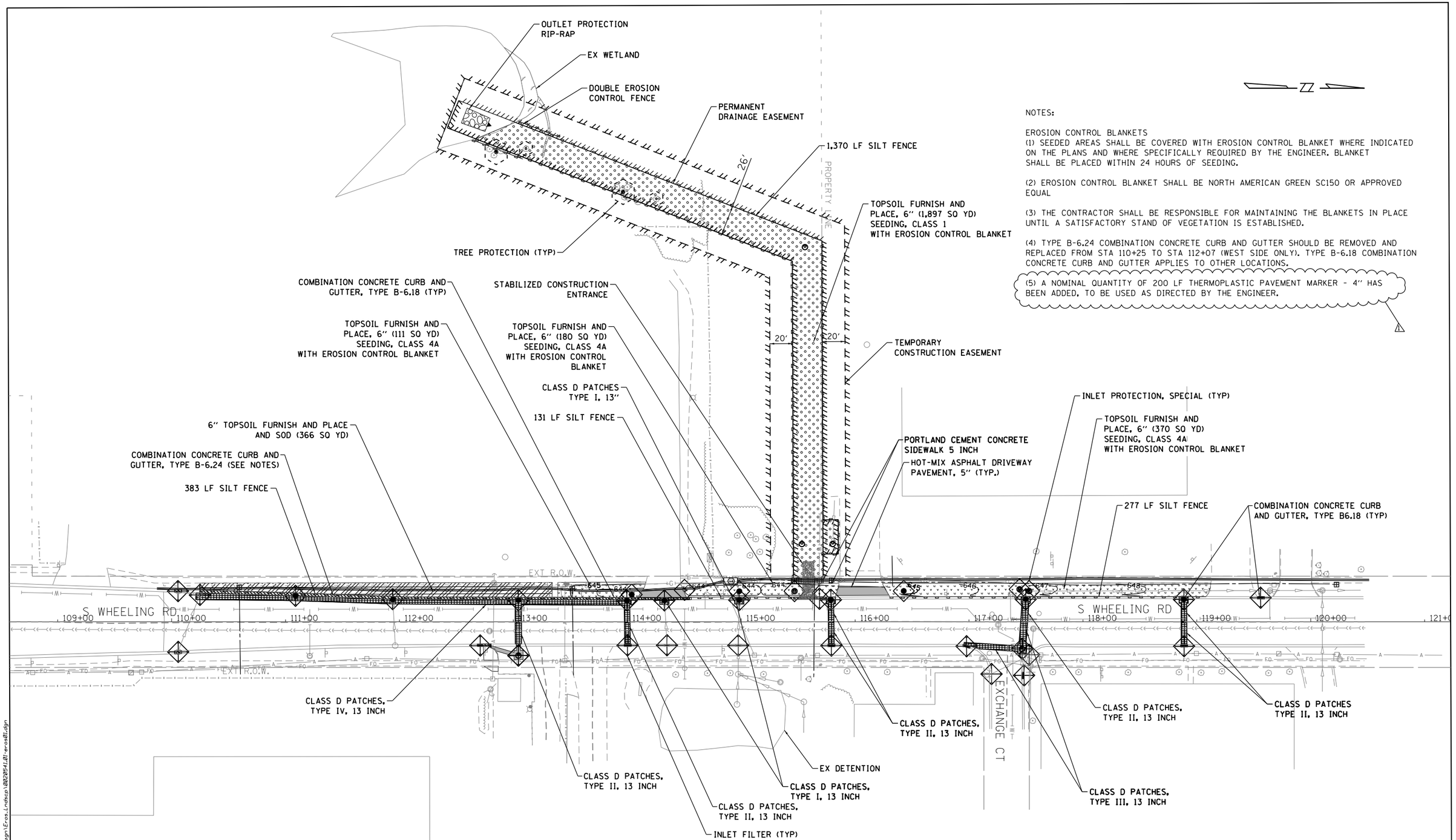
ENGINEERING CONSULTANT Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com	USER NAME = $USER$ PLOT SCALE = $SCALE$ PLOT DATE = 8/15/2018	DESIGNED - JX DRAWN - JS CHECKED - TW DATE - 7/23/2018	REVISED - 8/14/2018 1 REVISED - 8/15/2018 2 REVISED - REVISED -	VILLAGE OF WHEELING	SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS EXISTING UTILITY AND REMOVAL PLAN SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	6
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



NOTES:

EROSION CONTROL BLANKETS

(1) SEEDED AREAS SHALL BE COVERED WITH EROSION CONTROL BLANKET WHERE INDICATED ON THE PLANS AND WHERE SPECIFICALLY REQUIRED BY THE ENGINEER. BLANKET SHALL BE PLACED WITHIN 24 HOURS OF SEEDING.

(2) EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BLANKETS IN PLACE UNTIL A SATISFACTORY STAND OF VEGETATION IS ESTABLISHED.

(4) TYPE B-6.24 COMBINATION CONCRETE CURB AND GUTTER SHOULD BE REMOVED AND REPLACED FROM STA 110+25 TO STA 112+07 (WEST SIDE ONLY). TYPE B-6.18 COMBINATION CONCRETE CURB AND GUTTER APPLIES TO OTHER LOCATIONS.

(5) A NOMINAL QUANTITY OF 200 LF THERMOPLASTIC PAVEMENT MARKER - 4" HAS BEEN ADDED, TO BE USED AS DIRECTED BY THE ENGINEER.

1

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ENGINEERING CONSULTANT Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com	USER NAME = $USER$ PLOT SCALE = $SCALE$ PLOT DATE = 8/14/2018	DESIGNED - JX DRAWN - JS CHECKED - TW DATE - 7/23/2018	REVISED - 8/02/2018 1 REVISED - REVISED - REVISED -	VILLAGE OF WHEELING	SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS PROPOSED EROSION CONTROL AND RESTORATION PLAN SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.	F.A.U. RTE.	SECTION	COUNTY COOK CONTRACT NO. ILLINOIS FED. AID PROJECT	TOTAL SHEETS 15	SHEET NO. 7

S-102
PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE
INV = 642.50 (N)

S-101
EX CB TO BE ADJUSTED WITH TYPE 3V FRAME AND GRATE
RIM = 651.73

S-103
STA 111+09 O/S 24.8 LT
CB, TYPE A, 4' DIA
TYPE 3V FRAME AND GRATE
RIM = 649.70
INV = 641.37 (N)(S)

84 LF-30" RCP TY 2 @ 1.35%

S-104
STA 111+94 O/S 21.8 LT
CB, TYPE A, 4' DIA
TYPE 3V FRAME AND GRATE
RIM = 647.46
INV = 640.36 (N)(S)
EAST INLET MATCH EX. INV

86 LF-30" W.M. QUALITY PIPE TY 2 @ 1.17%

EX ATT DUCT

S-105
STA 113+04 O/S 21.0 LT
CB, TYPE A, 4' DIA
TYPE 3V FRAME AND GRATE
RIM = 645.53
INV = 639.22 (N)(S)
INV = 641.81 (E)

110 LF-30" W.M. QUALITY PIPE TY 2 @ 1.04%

S-106
STA 114+04 O/S 23.9 LT
CB, TYPE A, 5' DIA
TYPE 8 GRATE
RIM = 643.50
INV = 638.12 (SE)(N)

7 LF-30" WATER QUALITY PIPE TY 2 @ 1.5%

STORM SEWER INSERTA TEE CONNECTION (SEE DETAIL)
INV = 639.28

S-128
STA 114+00 O/S 20.8 LT
CB, TYPE A, 4' DIA
TYPE 3 FRAME AND GRATE
RIM = 643.31
INV = 638.22 (NW)(S)
INV = 639.51 (E)

95 LF-30" W.M. QUALITY PIPE TY 2 @ 1.05%

EXT R.O.W.

S-123
STA 114+98 O/S 21.1 LT
CB, TYPE A, 4' DIA
TYPE 3V FRAME AND GRATE
RIM = 643.38
INV = 639.52 (W)(E)

S-108
STA 114+98 O/S 26.4 LT
CB, TYPE A, 5' DIA
TYPE 8 GRATE
RIM = 643.50
INV = 638.00 (N)(S)
INV = 639.46 (E)

94 LF-36" RCP TY 1 @ 0.13%

6 LF-12" RCP TY 1 @ 1.00%

STORM SEWER WYE CONNECTION
INV = 639.25
(SEE DETAIL)

20 LF-12" WIDTH ACO POWER DRAIN S300K (OR APPROVED EQUAL)

S-134
EX CB TO BE ADJUSTED WITH TYPE 3V FRAME AND GRATE
RIM = 651.44

12" DIP

S WHEELING ROAD

49 LF-15" RCP TY 1 @ 1.00% (W.M. QUALITY)

39 LF-12" RCP TY 1 @ 1.26% (W.M. QUALITY)

34 LF-15" RCP TY 1 @ 1.00%

INV=642.39

20 LF-12" WIDTH ACO POWER DRAIN S300K (OR APPROVED EQUAL)

7 LF-12" RCP TY 1 @ 0.7%

3 LF-8" SDR 26 PVC PIPE (BOTTOM CONNECTION TO TRENCH DRAIN)

S-126
STA 114+33 O/S 20.8 LT
MH, TYPE A, 4' DIA
NEENAH R-2557-A4 FRAME AND GRATE (OR APPROVED EQUAL)
RIM = 643.25
INV = 639.15 (NW)(E)
INV = 640.50 (N)

S-133
EX CB TO BE ADJUSTED WITH TYPE 3V FRAME AND GRATE
RIM = 647.38

S-131
STA 112+71 O/S 21.6 RT
INLET, TYPE A, 2' DIA
TYPE 3V FRAME AND GRATE
RIM = 645.99
INV = 642.64 (NE)

S-130
STA 113+04 O/S 29.6 RT
MH, TYPE A, 4' DIA
NEENAH R-2557-A4 FRAME AND GRATE (OR APPROVED EQUAL)
RIM = 645.45
INV = 642.30 (W)(SW)

S-129
STA 114+00 O/S 21.5 RT
INLET, TYPE A, 2' DIA
TYPE 3 FRAME AND GRATE
RIM = 643.14
INV = 640.00 (W)

3 LF-8" SDR 26 PVC PIPE (BOTTOMCONNECTION TO TRENCH DRAIN)

INV=642.28

STORM SEWER CROSSING TABLE				
CROSSING	PR. ST	EX. W.M.	EX. C.S.	CLEARANCE (FT)
A	BOT = 641.87		T/P = 629.8	11.99
B	BOT = 641.68	T/P = 640.18		1.50
C	BOT = 639.68		T/P = 630.0	9.67
D	BOT = 639.45	T/P = 637.93		1.52

MATCHLINE STA. 115+00
SEE SHEET 9

0 20' 40'
GRAPHIC SCALE

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
R.O.W. CHECKED
CADD FILE NAME
DATE
BY

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
B.M. NOTED
STRUCTURE NOTATNS CHKD
DATE
BY

654 652 650 648 646 644 642 640 638

S-101 S-102 S-103 S-104 S-105 S-128 S-106 S-108

30" RCP @ 1.35%
30" W.M. QUALITY PIPE @ 1.17%
30" W.M. QUALITY PIPE @ 1.04%
30" W.M. QUALITY PIPE @ 1.05%
36" RCP @ 0.13%
EX PGL

109+00 110+00 111+00 112+00 113+00 114+00 115+00

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Clorba Group, Inc.
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5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@clorba.com

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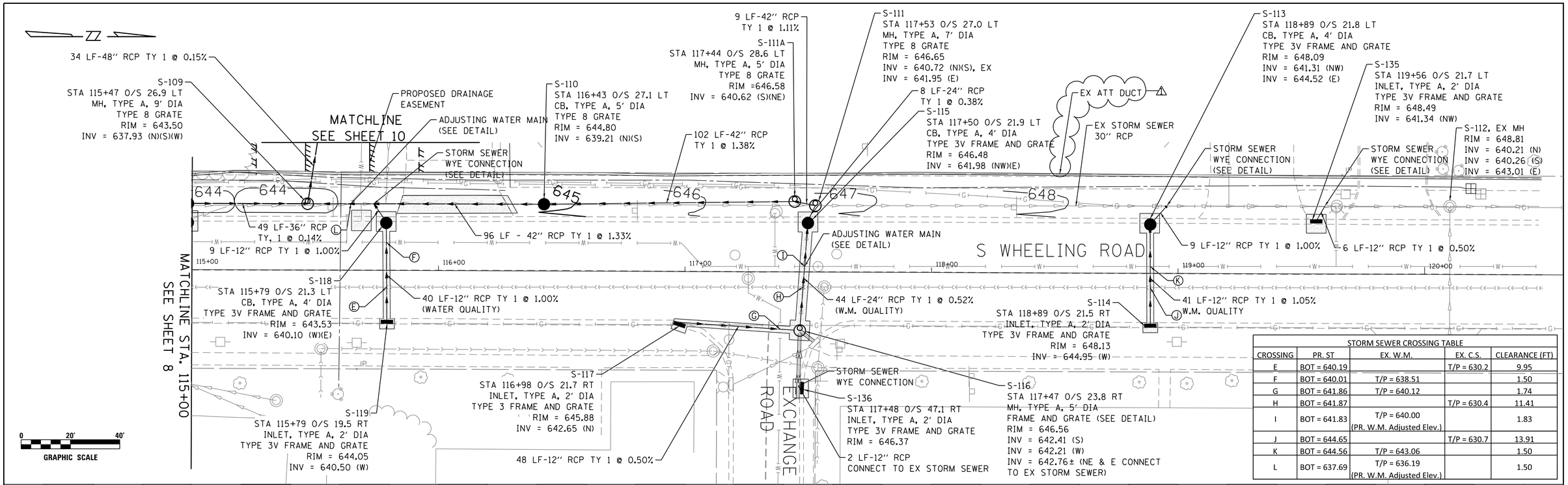
VILLAGE OF WHEELING

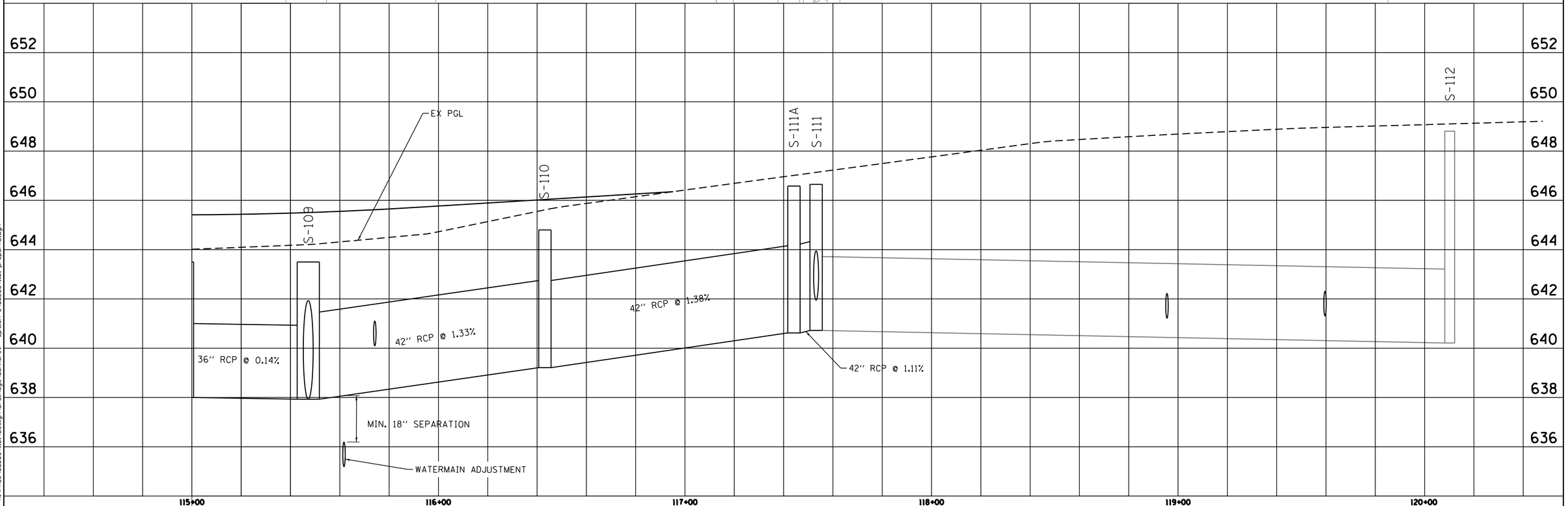
SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	8
		CONTRACT NO. _____		
	ILLINOIS FED. AID PROJECT			



STORM SEWER CROSSING TABLE				
CROSSING	PR. ST	EX. W.M.	EX. C.S.	CLEARANCE (FT)
E	BOT = 640.19		T/P = 630.2	9.95
F	BOT = 640.01	T/P = 638.51		1.50
G	BOT = 641.86	T/P = 640.12		1.74
H	BOT = 641.87		T/P = 630.4	11.41
I	BOT = 641.83	T/P = 640.00 (PR. W.M. Adjusted Elev.)		1.83
J	BOT = 644.65		T/P = 630.7	13.91
K	BOT = 644.56	T/P = 643.06		1.50
L	BOT = 637.69	T/P = 636.19 (PR. W.M. Adjusted Elev.)		1.50



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PROFILE — SURVEYED; PLOTTED; CHECKED; B.M. NOTED; STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.; BY; DATE

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4099 Fax 773.775.4014
Email chicago@clorba.com

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	DRAWN - JS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - TW	REVISED -
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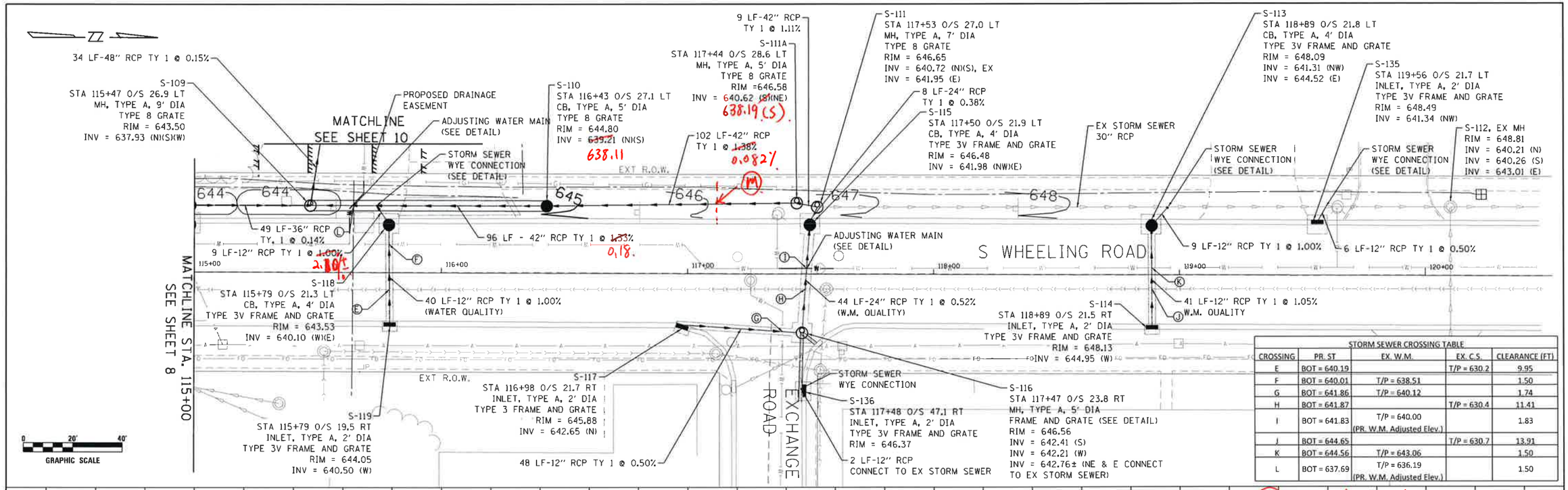
VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
PROPOSED DRAINAGE PLAN AND PROFILE

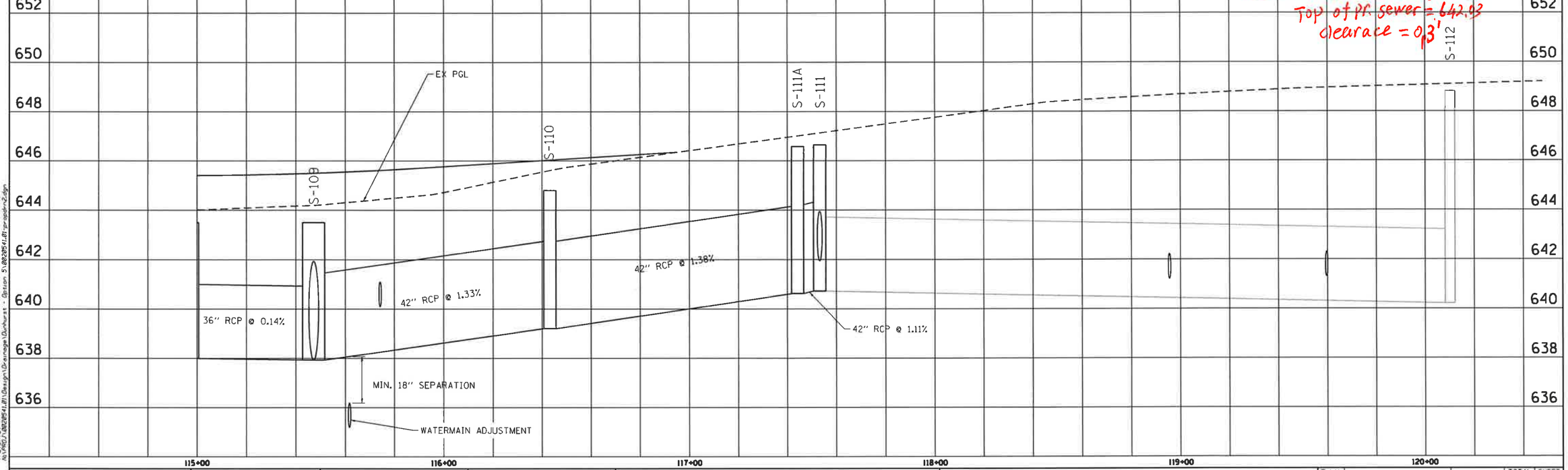
SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	9
		CONTRACT NO. _____		
		ILLINOIS FED. AID PROJECT		



STORM SEWER CROSSING TABLE				
CROSSING	PR. ST	EX. W.M.	EX. C.S.	CLEARANCE (FT)
E	BOT = 640.19		T/P = 630.2	9.95
F	BOT = 640.01	T/P = 638.51		1.50
G	BOT = 641.86	T/P = 640.12		1.74
H	BOT = 641.87		T/P = 630.4	11.41
I	BOT = 641.83	T/P = 640.00 (PR. W.M. Adjusted Elev.)		1.83
J	BOT = 644.65		T/P = 630.7	13.91
K	BOT = 644.56	T/P = 643.06		1.50
L	BOT = 637.69	T/P = 636.19 (PR. W.M. Adjusted Elev.)		1.50

(M) Top of W. service
Bottom of EX. DIP = 642.33
Top of pr. sewer = 642.03
clearace = 0.3'



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Ciorba Group, Inc.
CONSULTING ENGINEERS
2007 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel: 773.775.4014 • FX: 773.775.4014
Email: chicago@ciorba.com

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VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	9
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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MATCHLINE
SEE SHEET 9

42 LF - 48" RCP TY.1 @ 0.15%

S-120
STA 115+53 O/S 68.3 LT
MH, TYPE A, 9' DIA
FRAME AND CLOSE LID (SEE DETAIL)
RIM = 645.76
INV = 637.87 (E)(W)
N INVERT TBD IN FIELD

261 LF - 66" RCP TY.1 @ 0.05%

27 LF - 12" RCP TY.1 @ 0.5%

S-120A
STA 115+80 O/S 68.4 LT
MH. TYPE A, 4' DIA
FRAME AND CLOSE LID (SEE DETAIL)
RIM = 646.01
MATCH EXT. SEWER INV. (TBD ON SITE)

TEMPORARY
CONSTRUCTION EASEMENT

PROPOSED
DRAINAGE EASEMENT

ECHO LAKE
NWL = 640.80±

638.563
638.307
637.098
637.783
638.756
638.882
639.350

WETLAND

66" DIA. END SECTION
STA 112+81 O/S 435.2 LT
INV = 637.59
(GRADING TO DRAIN)

WATERS OF THE U.S. BOUNDARY

294 LF - 66" RCP TY.2 @ 0.05%

S-121
STA 115+56 O/S 328.9 LT
MH, TYPE A, 9' DIA
FRAME AND CLOSE LID (SEE DETAIL)
RIM = 652.97
INV = 637.74 (E)(SW)

0 20' 40'
GRAPHIC SCALE

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Clorba Group, Inc.
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5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4099 Fax 773.775.4014
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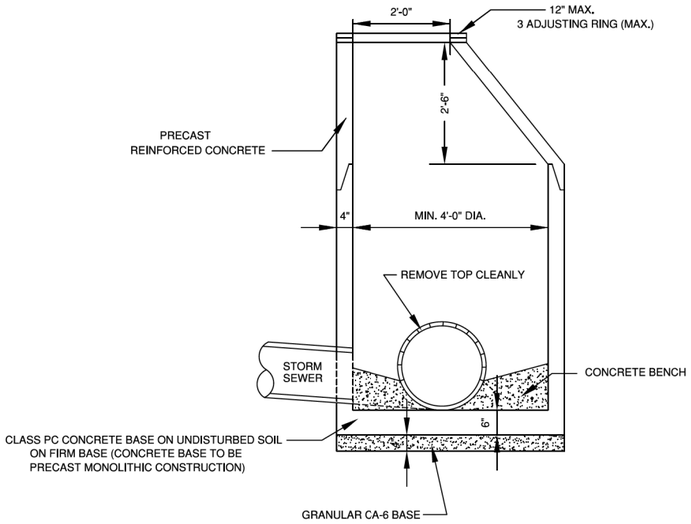
VILLAGE OF WHEELING

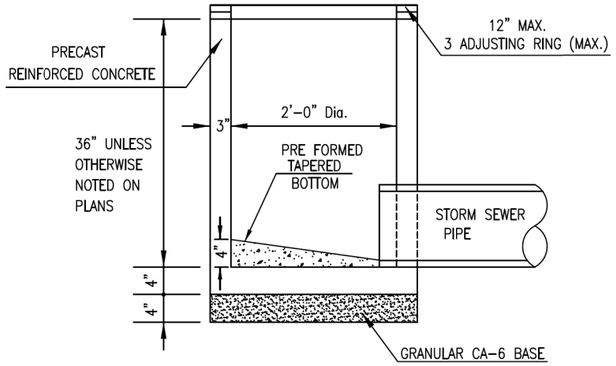
SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	10
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



A. STORM MANHOLE STANDARD



B. INLET (TYPE A)

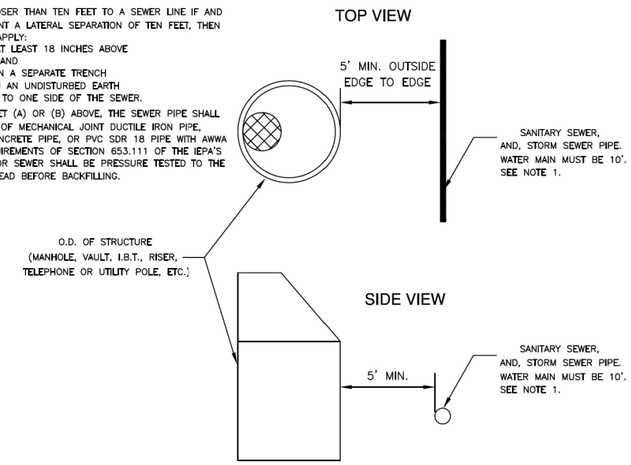
NOTE 1:

A) WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY, OUTER EDGE OF WATER MAIN AND NEAREST OUTER EDGE OF OTHER SEWER PIPE, FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICE CONNECTION.

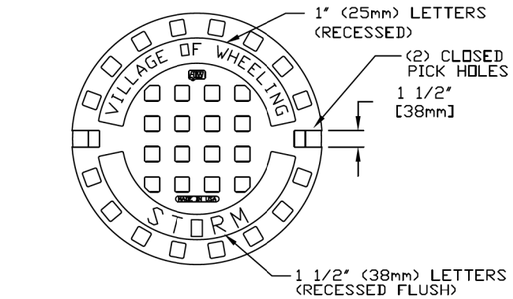
B) WATER MAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE IF AND ONLY IF LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET, THEN THE FOLLOWING CONDITIONS WILL APPLY:

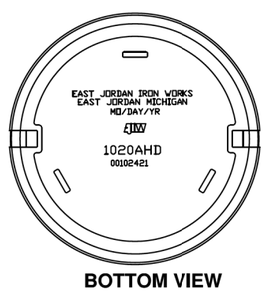
- –THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND
- –THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED COMPLETELY TO ONE SIDE OF THE SEWER.

C) WHEN IS IT IMPOSSIBLE TO MEET (A) OR (B) ABOVE, THE SEWER PIPE SHALL BE CONSTRUCTED OF PUSH JOINT OF MECHANICAL JOINT DUCTILE IRON PIPE, PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC SDR 18 PIPE WITH AWWA C-900 JOINTS, MEETING THE REQUIREMENTS OF SECTION 653.111 OF THE IEPA'S TITLE 35 SUBTITLE F. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

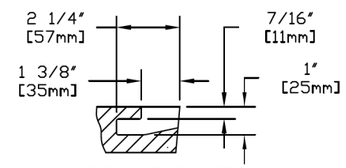


C. UTILITY CLEARANCE STANDARD

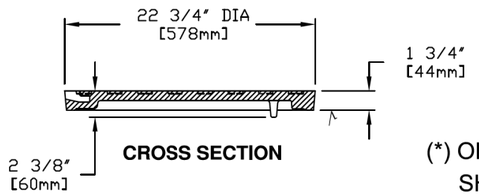




BOTTOM VIEW



PICK HOLE DETAIL

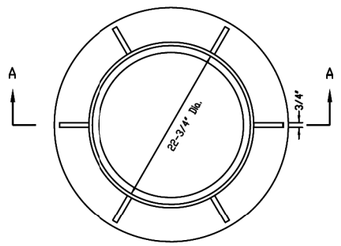


CROSS SECTION

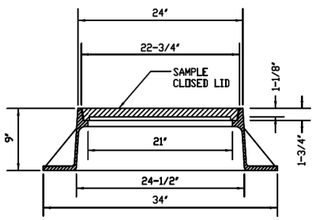
(*) OR NEENAH CATALOG R-1713
SHOP DRAWING NF-1015 T45

√ MACHINED SURFACE

D. FRAME AND CLOSE LID STORM MANHOLE STANDARD

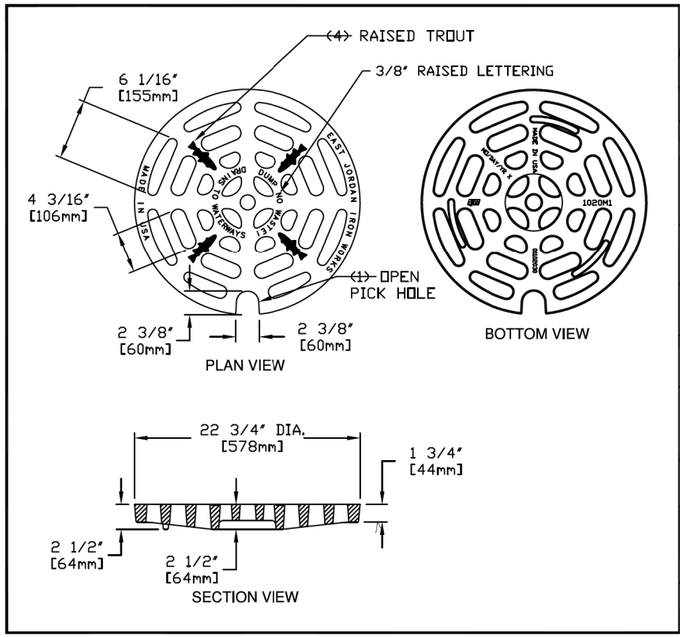


PLAN



SECTION A-A

FURNISH HEAVY DUTY CASTING
AS REQUIRED BY THE VILLAGE ENGINEER



(*) or NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17

E. FRAME AND OPEN LID STORM MANHOLE STANDARD

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
E-mail: chicago@clorba.com

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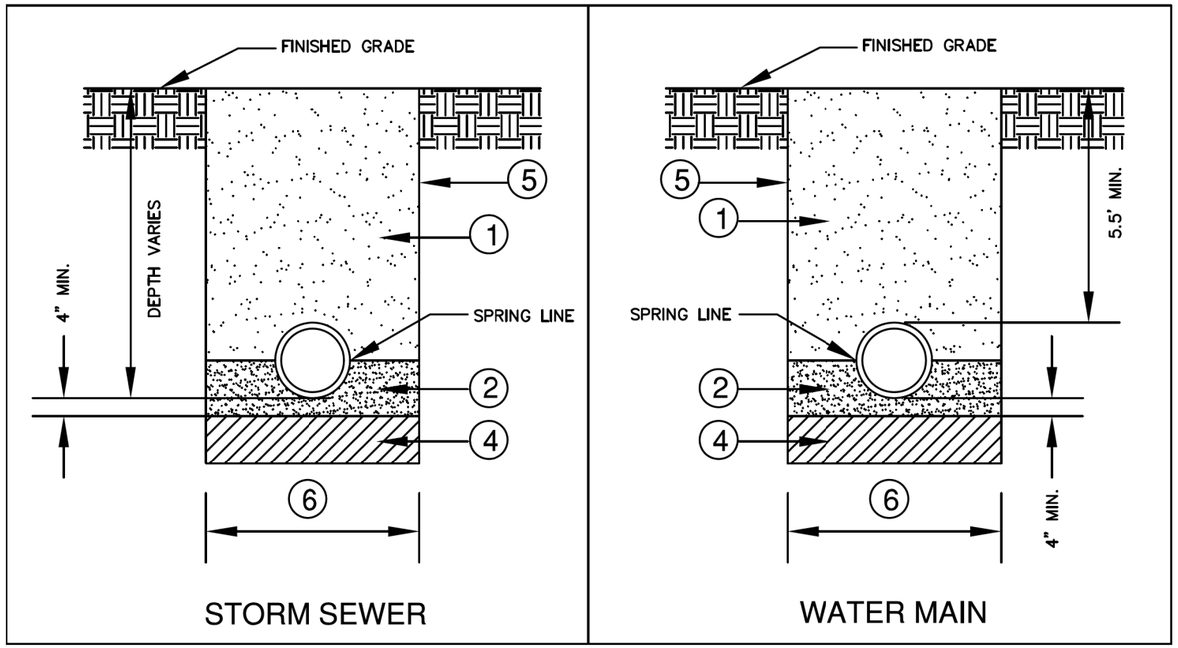
VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

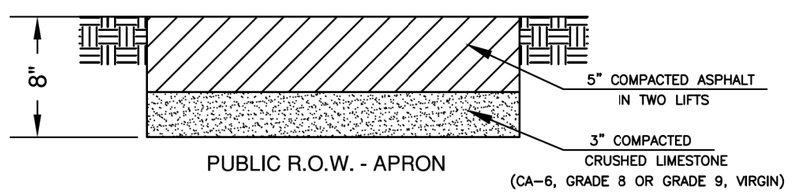
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	11
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



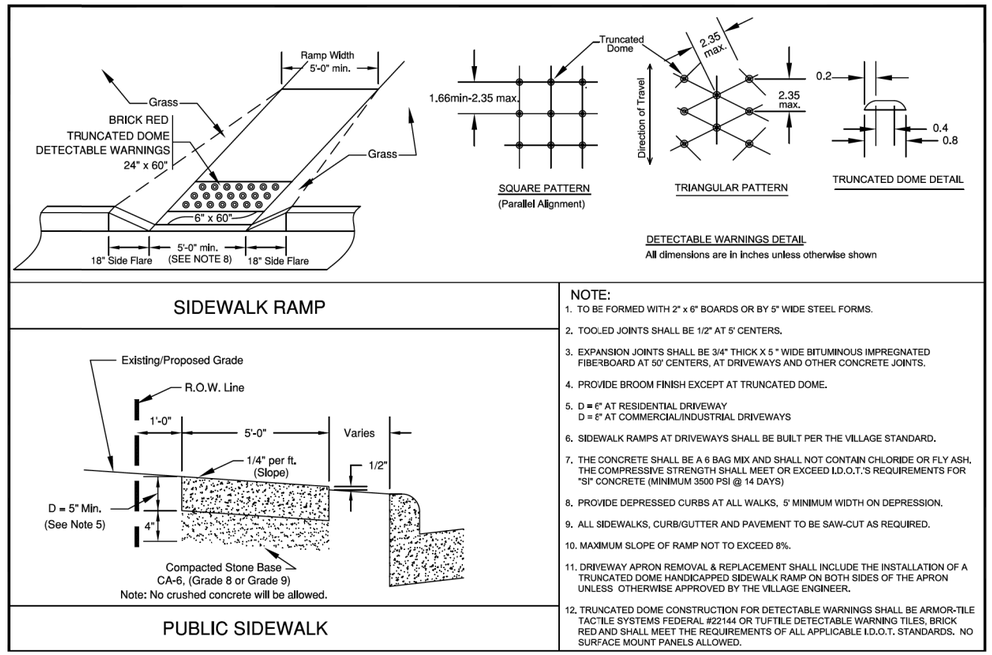
NOTES:

1. BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA–6, GRADE 8 OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK EXCAVATED MATERIAL MAY BE USED IN NON–PAVED AREAS
2. CA–11 OR CA–13 STONE OR OTHER APPROVED SELECT BACKFILL. TAMPED INTO PLACE TO SPRING LINE OF PIPE.
3. CA–11 OR CA–13 STONE OR OTHER APPROVED SELECT BACKFILL. TAMPED TO 12" MINIMUM ABOVE TOP OF PIPE.
4. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER
5. TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
6. MAXIMUM TRENCH WIDTH = 18" (1'–6") + O.D. WHEN TRENCH < 5 FEET
   = 36" (3'–0") + O.D. WHEN TRENCH > 5 FEET

TRENCH BACKFILL STANDARD

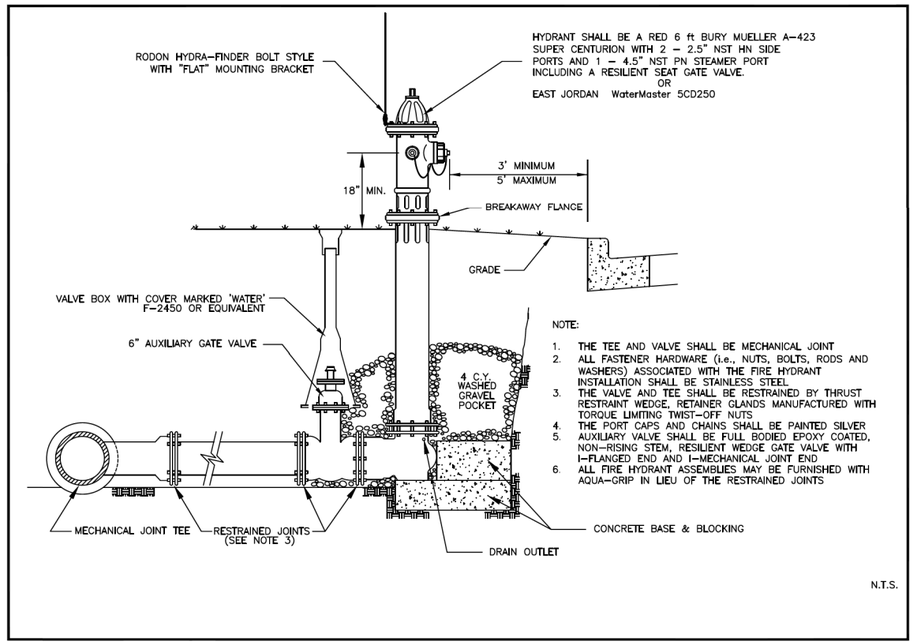


ASPHALT DRIVEWAY



NOTE:
1. TO BE FORMED WITH 2" x 6" BOARDS OR BY 5" WIDE STEEL FORMS.
2. TOO..ED 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 STANDARDS



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Clorba Group, Inc. CONSULTING ENGINEERS 8507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4099 Fax 773.775.4014 Email chicago@clorba.com		DRAWN - JS	REVISED -
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VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	12
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

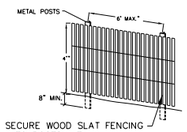
INSTALL & MAINTAIN 4' TALL WOODEN SLAT OR CHAIN LINK METAL FENCE SECURED TO METAL POSTS SPACED A MAXIMUM DISTANCE OF 6' APART.

FENCE TO BE LOCATED AT A DISTANCE FROM THE TRUNK OF THE TREE EQUAL TO 1 FOOT FOR EVERY INCH OF DIAMETER MEASURED AT BREAST HEIGHT WHICH IS MEASURED 4.5' ABOVE GROUND LEVEL.

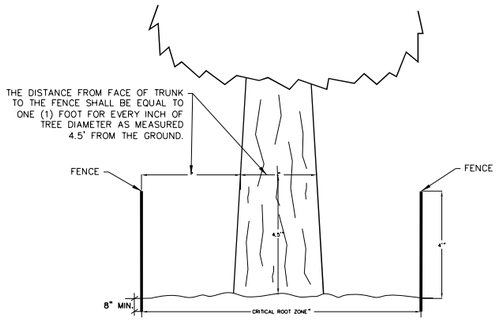
WOOD SLAT FENCE MUST BE SECURED TO THE METAL POSTS WITH A MINIMUM OF FOUR (4) WIRE TIES.

CHAIN LINK FENCE TO HAVE POSTS SECURED AT EACH SECTION TO MAINTAIN AN UPRIGHT AND STATIONARY POSITION THROUGHOUT CONSTRUCTION.

FAILURE TO INSTALL AND MAINTAIN PROTECTIVE TREE FENCING IN ACCORDANCE WITH VILLAGE STANDARDS WILL RESULT IN THE ISSUANCE OF A STOP WORK ORDER ON THE PROJECT.

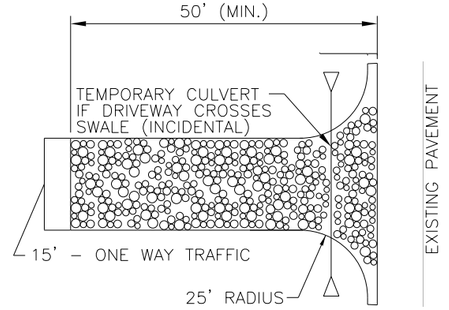


WOOD SLAT FENCE DETAIL

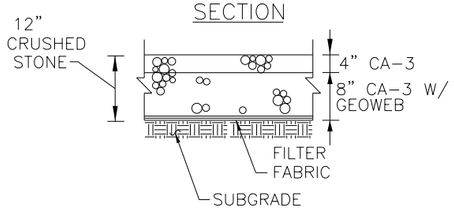


TREE PROTECTION DETAIL

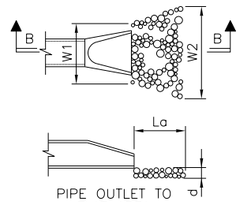
PLAN



SECTION



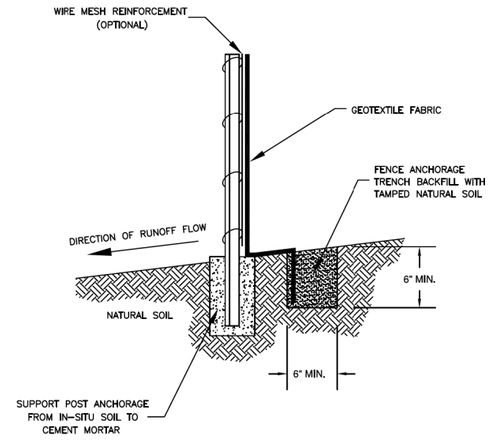
OUTLET PROTECTION DETAIL
RIPRAP APRON



SECTION B–B

- FURNISH FILTER FABRIC PER SECTION 282 OF THE STANDARD SPECIFICATIONS. 2' TURN DOWN NOT SHOWN.
- PROVIDE BEDDING STONE (NOT SHOWN) PER SECTION 281 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION FOR PLACEMENT OF RIPRAP WILL NOT BE MEASURED FOR PAYMENT

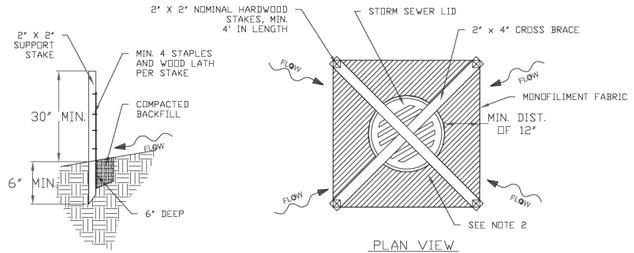
STR. #	PIPE SIZE	TYPE	La	W1	W2	d
1	66"	RR 4	22'	12.5'	14'	20"



NOTE: DEPENDING UPON CONFIGURATION, ATTACH FABRIC TO WIRE MESH W/HOG RINGS, STEEL POSTS W/TIE WIRES, WOOD POSTS W/NAILS.

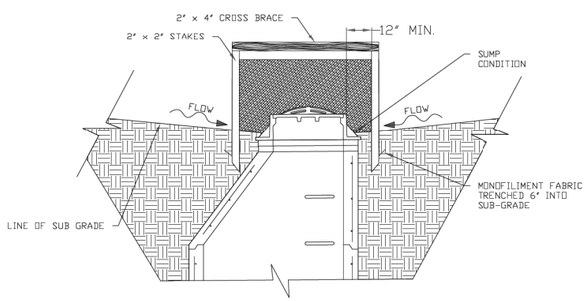
SILT FENCE INSTALLATION STANDARD

STABILIZED CONSTRUCTION ENTRANCE



STAKE DETAIL

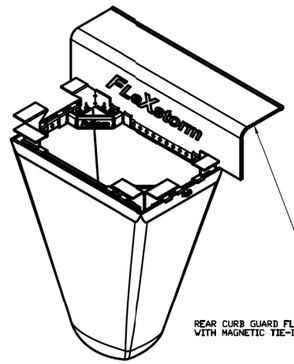
PLAN VIEW



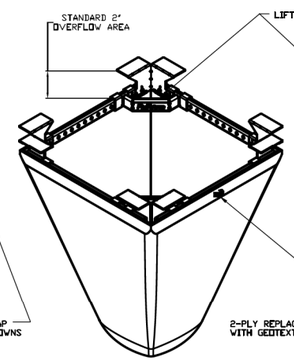
SECTION

NOTES:
1. 2 x 2 nominal hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.
2. Area inside the fence, from edge of fabric to structure, must be stabilized with Erosion Control Blanket, Turf Reinforcement Mat, Geotextile 592 Table 2 Class 2 or CA-7 stone
3. Maximum height of the fabric above the crest of the drop inlet shall be 30". Place the bottom 6 inches of the fabric in a trench and backfill with 6 inches of 95% compacted soil.
4. Stakes must be a maximum of 4 feet apart.
5. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the monofilment fabric.
6. Monofilment fabric shall meet the requirement of Material Specification 592 Geotextile Table 1, Class 4.
7. Monofilment fabric shall be secured to each 2" x 2" nominal hardwood stake with a minimum of 4 steel staple fasteners and wood lath. Wood lath shall be a minimum length of 10 inches. Wire fasteners should be used if metal T-Posts are installed in place of hardwood stakes.

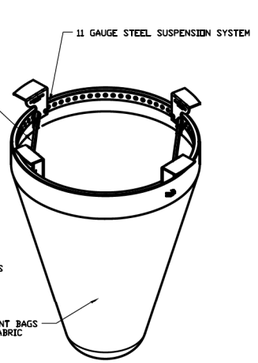
INLET PROTECTION, SPECIAL



TYPICAL CURB BOX INLET FILTER

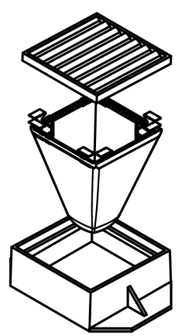


TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER

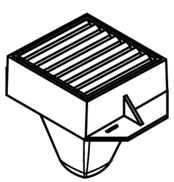


TYPICAL ROUND INLET FILTER

IPP *FLe* Xstorm Inlet Filter Specifications			
Material Property	***Test Method***	***Value (min ave)***	
> Inner Filter Bag Specs (2 ft³ min vol)		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%
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0 /sec	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft	145 gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%	
Thickness	ASTM D 1777	.040 +/- .005	
> Frame Construction			
A36 Structural Steel; 11 Guage; Zinc Plated	ASTM A 576	*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

INLET FILTER STANDARD

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Clorba Group, Inc. CONSULTING ENGINEERS 8507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4099 Fax 773.775.4014 Email chicago@clorba.com		DRAWN - JS	REVISED -
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VILLAGE OF WHEELING

SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS
EROSION CONTROL DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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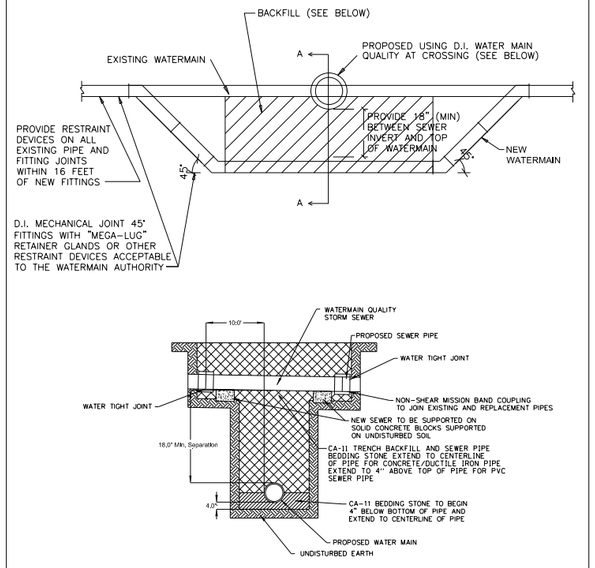
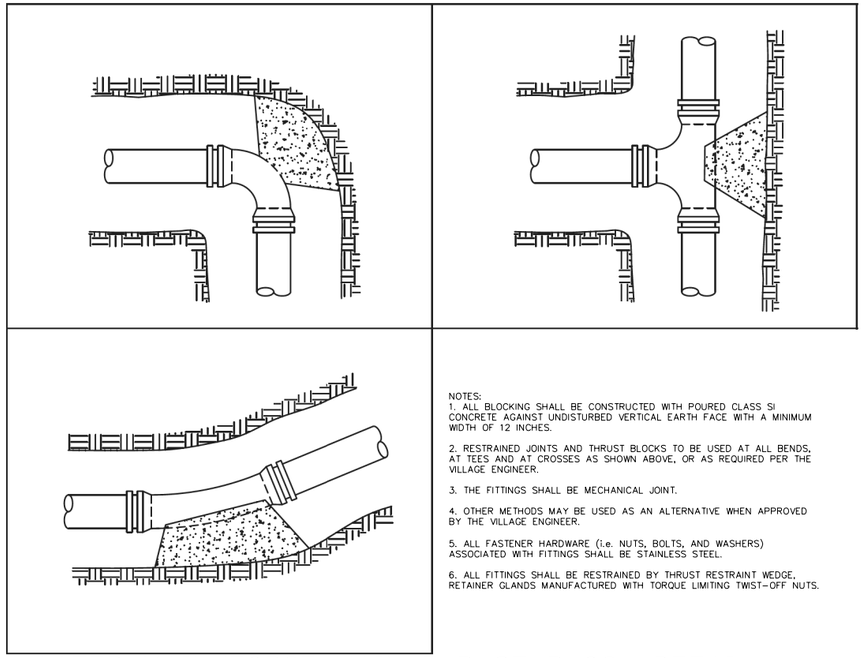


ADJUSTING WATER MAIN



NOTES:
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.

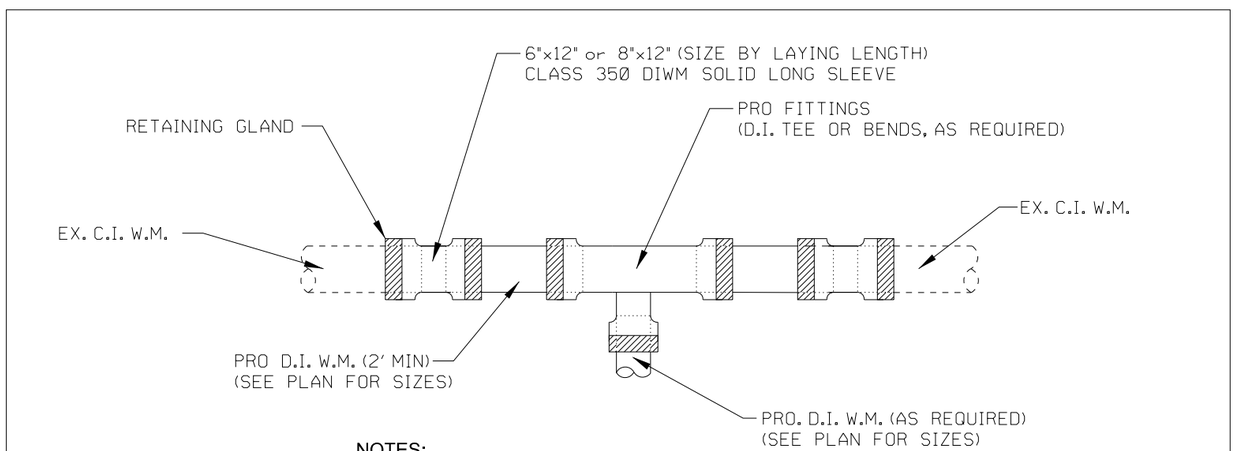
WATER MAIN/FORCE MAIN THRUST BLOCK DETAIL

ACO POWER DRAIN S300K



- 1-40 slope system
- 0.5% slope
- Developed V-shaped profile
- 5 neutrals
- 4 half meter
- Knock outs every 5th channel
- Installation device
- Visible channel markings
- 12" (300 mm) internal width
- Slotted or longitudinal (ADA) grate available
- In-line catch basin

TRENCH DRAIN DETAIL



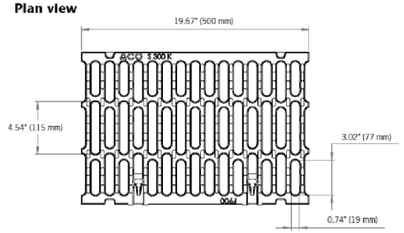
NOTES:
1. CLASS 350 MJ SOLID LONG SLEEVE AND A SHORT PIECE (2' MIN) OF D.I. PIPEARE REQUIRED TO CONNECT EXISTING C.I. W.M. TO PRO. D.I. W.M.
2. NO DIRECT CONNECTIONS BETWEEN PRO. D.I. FITTING TO EXISTING C.I. W.M. ARE ALLOWED

TYPICAL WATER MAIN CONNECTION DETAIL

ACO DRAIN

12" width - ductile iron slotted grate

Plan view



Side elevation



Description	Part No.	Length inches *(mm)*	Width inches *(mm)*	Weight lbs.
PowerLok grate SK3 ductile iron slotted steel grate - Cl F	**02445**	19.67 (500)	13.25 (336)	55.75

TRENCH DRAIN DUCTILE IRON SLOTTED GRATE

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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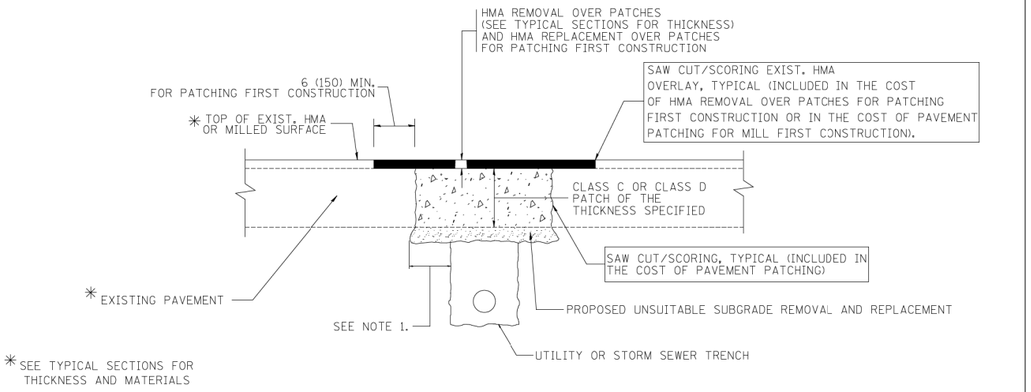


NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

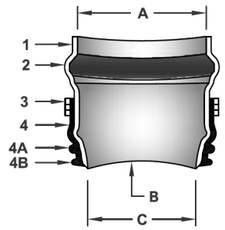
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT STANDARD

SDR 26 HWS GASKETED BELL GRAVITY APPLICATIONS

A. BELL END ACCEPTS PIPE WITH SDR 26, ASTM D3034 OR EQUIVALENT O.D. SPECIFICATION IN 8", 10", 12", 15", AND 18" SIZES (FOR 4" AND 6" SIZES, REFER TO FATBOY SPECIFICATIONS)

B. CURVATURE VARIES WITH MAINLINE DIAMETERS.

C. SPIGOT END PVC SDR 26, ASTM D3034 DIAMETERS: 8", 10", 12", 15", AND 18"



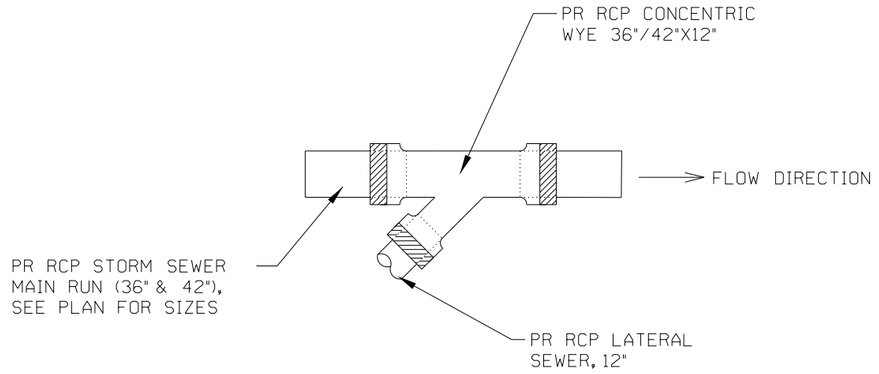
PART	PART NAME	MATERIALS
1	HUB ADAPTOR	PVC SDR 26 ASTM D3034
2	RUBBER GASKET	ASTM F477
3	SECURING CLAMP*	BAND SS #301 SCREW SS #305 HOUSING SS #301
4	RUBBER SLEEVE (AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)	ASTM F477
4A	UPPER SEGMENT**	
4B	LOWER SEGMENT***	

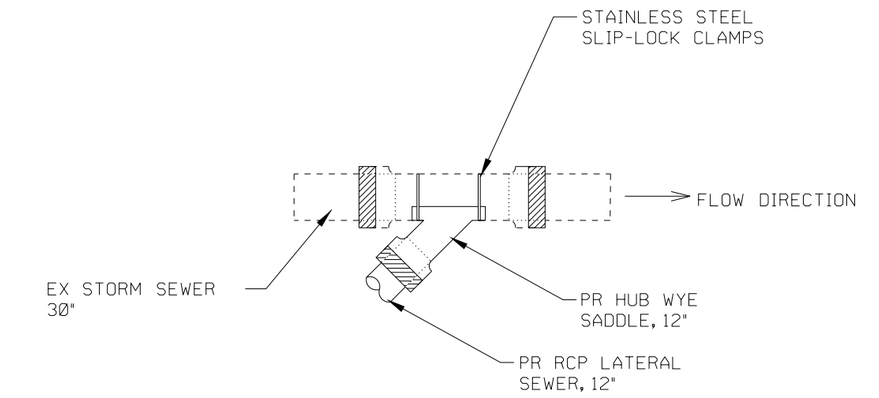
* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING
** DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE
*** WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

INSERTA TEE SIZE	HOLE DIAMETER
8" (200 mm)	8 ¾" (222mm)
10" (250 mm)	10 ⅞" (276mm)
12" (300 mm)	12 ⅞" (327mm)
15" (375 mm)	15 13/16" (402mm)
18" (450 mm)	19 ⅜" (503mm)

NOTE: RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIMOND BIT FOR CONCRETES, CLAY, FRP AND D.I.

STORM SEWER INSERTA TEE CONNECTION DETAIL





STORM SEWER WYE CONNECTION DETAIL

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ENGINEERING CONSULTANT					
Clorba Group, Inc. CONSULTING ENGINEERS 6507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4099 Fax 773.775.4014 Email chicago@clorba.com	USER NAME = $USER$	DESIGNED - JX	REVISED -	VILLAGE OF WHEELING	SOUTH WHEELING ROAD DRAINAGE IMPROVEMENTS DETAILS
		DRAWN - JS	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - TW	REVISED -		SCALE: / SHEET NO. OF SHEETS / STA. / TO STA.
	PLOT DATE = 7/23/2018	DATE - 7/23/2018	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	15	15
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

EASTCHESTER RELIEF STORM SEWER
VILLAGE OF WHEELING, ILLINOIS
ENGINEERING IMPROVEMENT PLANS
SECTIONS 11 & 23 TOWNSHIP 42 NORTH RANGE 11 EAST
COOK COUNTY

VILLAGE OF WHEELING - VILLAGE HALL:
2 Community Boulevard
Wheeling, IL 60090
Tel: 847-459-2600
Fax: 847-459-9692

VILLAGE OF WHEELING - PUBLIC WORKS:
77 W. Hintz Road
Wheeling, IL 60090
Tel: 847-279-6900
Fax: 847-279-6420

PREPARED BY:
Haeger Engineering LLC
Illinois Prof. Design Firm #184-003152
100 East State Parkway
Schaumburg, IL 60173
Tel: 847-394-6600
Fax: 847-394-6608
www.haegerengineering.com

SOURCE BENCHMARKS:

VILLAGE OF WHEELING BM-15

2.5" Aluminum Disk Stamped 'Village of Wheeling - Survey Marker' at sanitary lift station at southeast corner of Dundee Road & Milwaukee Ave.

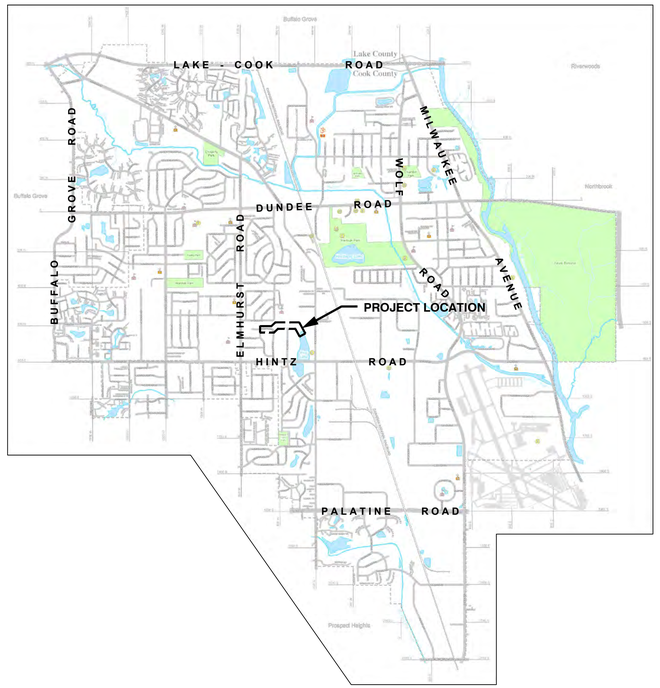
Elevation = 646.315 (NAVD 88)

VILLAGE OF WHEELING BM-22

2.5" Aluminum Disk stamped 'Village of Wheeling - Survey Marker' on south side of Hintz Road bridge, approximately 500-ft west of Wheeling Road.

Elevation = 649.119 (NAVD 88)

See Sheets 5-6 for Site Benchmarks



INDEX TO SHEETS

NO.	DESCRIPTION
C1.0	TITLE SHEET
C2.0	GENERAL NOTES AND SPECIFICATIONS
C3.0	EXISTING CONDITIONS, DEMOLITION, & EROSION CONTROL PLAN
C4.0	PLAN & PROFILE STA. 0+00 TO STA. 5+50
C4.1	PLAN & PROFILE STA. 5+50 TO STA. 11+50
C4.2	PLAN & PROFILE STA. 11+00 TO STA. 16+00
C4.3	PLAN & PROFILE STA. 16+00 TO STA. 18+00
C5.0-5.2	STANDARD DETAILS

LEGEND

Existing Symbol	Description	Proposed Symbol
	Storm Sewer Manhole	
	Catch Basin	
	Inlet	
	Sanitary Sewer Manhole	
	Clean Out	
	Storm Sewer	
	Sanitary Sewer	
W	Water Main	W
W	Water Main Service	W
	Fire Hydrant	
	Valve Vault	
	Valve Box	
	B-Box	
	Light Pole	
	Hand Hole	
	Fence	
	Sign	
	Gas Valve	
G	Gas Line	
E	Electric Line	
	Lamp Post	
	Curb & Gutter	
	Retaining Wall	
C XXX.XX / G/P XXX.XX	Curb Elevation and Gutter/Pavement Elevation	
XXX.XX	Pavement Elevation	
XXX.XX	Sidewalk Elevation	
XXX.X +	Ground Elevation	
Gr XXX.XX	Open Lid Frame & Grate	
Rim XXX.XX	Closed Lid Frame & Lid	
100	Contour Line	
	Deciduous Tree	
	Coniferous Tree	
	Bush	

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

Note:
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

MICHAEL L. ANDERSON
062-053216
LICENSED PROFESSIONAL ENGINEER
OF
STATE OF ILLINOIS
EXPIRES 11-30-21

No.	Revision	Date

HAEGER ENGINEERING
consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No.: 184-003152
www.haegerengineering.com

TITLE SHEET

EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03.26.2020
Project No. 18-253
Sheet C1.0 / C5

© 2020 Haeger Engineering, LLC

Plot Date: Mar 27, 2020 - 1:50pm Plotted By: mike-a
File Name: P:\2018\18253\Drawings\Final Engineering\18253-Final Engineering.dwg

VILLAGE OF WHEELING NOTES

GENERAL NOTES

1. 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, 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 Village standards and requirements shall govern.
2. 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 Village standards and requirements shall govern.
3. 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.
4. All elevations are based upon NAVD 88 Datum.
5. The contractor shall notify the Village of Wheeling Engineering (847) 229-4600 and Plumbing Inspector (847) 459-2620 two (2) business days prior to the start of construction. The Contractor shall also contact J.U.L.I.E. (800) 892-0123 at least 48 hours prior to starting work. All other agencies shall also be notified as required.
6. The contractor shall restore all disturbed off-site areas to at least a condition that existed prior to construction.
7. All existing field drainage tile encountered or damaged during construction are to be restored to their original condition, properly rerouted, and/or connected to the storm sewer system.
8. The contractor and engineer shall maintain records for "as built" drawings which shall be submitted to the Village Engineer at the completion of this project.
9. The contractor shall provide video tape(s) or still pictures as required by the Village Engineer prior to beginning work.
10. One set of stamped approved plans shall be on site at all times during construction of the project.
11. It shall be the responsibility of the Contractor to call at least 48 hours in advance and set up the necessary and proper inspection(s) for all work to be performed.
12. All unpaved areas of right-of-way are to be sodded (salt-tolerant) where disturbance exceeds 18-in in width. Where restoration is less than 18-in in width, restoration shall be salt-tolerant seed and erosion control blanket. All restoration areas to include six (6) inches of topsoil.
13. Storm and sanitary sewer lines shall be cleaned of all construction debris and silt prior to Village inspection.
14. The contractor shall maintain and keep at the job site, an up to date set of "Record Drawings" showing all changes from the original plans. 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 cleanouts must be shown with tied dimensions. The elevation of all rims and inverts shall be verified by the contractor and shown on the "Record Drawings". 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 three (3) sets of complete "Record Drawings," and, if required, one (1) set of reproducible mylars.
15. 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, procedures, and codes of the Village of Wheeling, which includes but is not limited to labor, materials, procedures, and safety.
16. 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.
17. All obstructions that are not approved by the Village and which currently exist in the right-of-way shall be removed, which include all rocks and boulders.
18. OSHA rules, regulations, and requirements shall be strictly adhered to during the execution of all work to be performed under the approved drawings.
19. Contractor shall pay special attention to the existing street light electrical conduit. If electrical conduit is damaged, repairing only damaged portion of conduit is not allowed; the entire section of electrical conduit between the nearest poles shall be replaced unless approved by the Village Engineer.

GENERAL UNDERGROUND UTILITIES

1. Trench backfill shall be provided under and within two feet (2') of all proposed pavement.
2. All manholes and similar structures must be a minimum of 48" diameter, and valve vaults must be a minimum of 60" diameter, unless approved otherwise.
3. For modification or repair of all sewers and addition of or repair of sewer clean outs: non-shear couplings shall be used in connection of sewer pipes with prior approval from Village Engineering Department.
4. A minimum ten feet (10') horizontal separation shall be maintained between watermain and sewer or drain lines unless precluded by local conditions. When the watermain is located closer than ten feet (10') horizontally or the invert of the watermain is located closer than eighteen inches (18") vertically above the crown of any sewer or drain line, then the sewer or drain line shall be constructed of pipe equivalent to watermain standards and shall be pressure tested to assure water tightness in accordance with the Illinois Environmental Protection Agency (I.E.P.A.) requirements.
5. When a watermain crossing over a sewer or drain line is closer than eighteen inches (18") vertically above the crown of that sewer or drain line, then that sewer or drain line shall be constructed according to the requirements listed in item 4) above.
6. If the watermain passes under a sewer or drain line, the following conditions shall be met: a vertical separation of eighteen inches (18") between the invert of the sewer or drain line and the crown of the watermain shall be maintained with support provided for the sewer or drain line(s) to prevent any moving or settling, rupture or breaking, and sewer or drain line shall be constructed as described in item 4) above.
7. The cost of all required testing of underground utilities shall be incidental to the construction cost of the same.
8. The contractor shall mark location of the end of all water mains with a blue stake and provide curb stops on services with buried 4" x 4" wood posts extending a minimum of three (3) feet out of the ground and painted red, blue, and green respectively, with appropriate signs attached stating "Caution: B-box - Do not remove until landscaping is complete."
9. When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole, the sewer shall be circular saw-cut by proper tools ("sewer-tap" machine or similar) with proper installation of hub-wye saddle or hubtee saddle.
10. Sewer connections to an existing structure shall be machine cored.
11. A flexible rubber boot shall be used at all sanitary sewer manhole penetration connections.
12. Eccentric cone sections shall be used on all manholes, catch basins, vaults, etc. unless approved otherwise by the Village Engineer.
13. All sewer construction requires stone bedding 1/4" to 1" in size, (I.D.O.T. equivalent CA-11, CA-13) with a minimum thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches, nor greater than eight (8) inches.
14. All sewer construction shall conform to the approved permit plans unless revisions have been approved by the Village, as well as any and all other necessary agencies.
15. Structures shall have a maximum of twelve inches (12") of adjustment with any combination up to a maximum of three (3) rings.
16. Protect and/or cover all pipes and underground structures until final grading, paving, and landscaping are complete.
17. Trench Backfill material for both paved areas and parkways shall be CA-6, Grade 8. For detail, see Trench Backfill Standard on Sheet C7.1. Density Test of compacted CA-6 will be performed by a consultant retained by the contractor. If the density requirement (95% modified proctor density) is not met, further trench backfilling will not be allowed until CA-6 is compacted to Village requirements. Contractor is responsible for providing modified proctor density data of CA-6 and the cost of this work shall be included in the cost of water main.
18. Throughout all phases of construction, including suspension of work, and until the final acceptance, the contractor shall keep the site clean and free from rubbish and debris. The contractor shall also abate dust nuisance by cleaning, sweeping and sprinkling with water or other means as necessary. Whenever necessary, the Engineer, the contractor shall provide a water truck with pressure distributor and with sprayer nozzle at least once each working day for the purpose of keeping paved areas acceptably clean wherever construction, including restoration, is incomplete unless directed by the Engineer otherwise.
19. Curb and Gutter, Sidewalk, Driveway and Sodding Shall be restored within four weeks after all service lines are made to each street. If temperature is above 80 degrees farenheit, sodding should be delayed until temperature is under 80 degrees. Watering of new sod shall be performed per IDOT standard specifications for Road and Bridge Construction, article 252.08.
20. Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles or public streets be maintainable at all times.

PAVING

1. Base course shall be aggregate base course, type B (crushed limestone, grade 8), conforming to the standard specifications (see plans for thickness).
2. Surface course and binder course shall be bituminous concrete, Class I hot mix (see plans for thickness).
3. Curb and gutter, barrier curb, and sidewalk shall be Portland Cement concrete with air entrainment of five (5) percent, plus or minus one (1) percent. A six (6) bag mix shall be used. Maximum allowable slump is three (3) inches. Curing compound shall be applied after finishing. Curb backfill shall be incidental to the construction of the curb. Location of handicap and sewer service shall be clearly marked on all new curb and gutter.
4. A 3/4 inch fiber expansion joint shall be installed when the curb abuts a sidewalk or existing curb.
5. Curb and gutter and barrier curb shall have sawed contraction joints at maximum intervals of twenty (20) feet and 3/4 inch fiber expansion joint at maximum intervals of sixty (60) feet.
6. Subgrade shall be finished to ± 0.1 feet of design subgrade elevation by the earthwork contractor. Fine grading for pavements and sidewalks shall be the responsibility of the paving contractor.
7. The base course shall be primed at the rate of 0.25 to 0.50 gallons per square yard with a liquid asphalt conforming to I.D.O.T. standards and shall be appropriate for prevailing weather conditions. Prime coat and cleaning of the existing surface shall be considered as incidental to the contract work.
8. Prior to placement of any pavement, including curbs, the subgrade shall be proof rolled with a fully loaded tandem axle dump truck (minimum 20 tons). Proof rolling shall be witnessed by the materials consultant and the Village Engineer. Proof rolling shall be required on the base material as well. The density of the subgrade base and base material, as well as the bituminous material, shall also be tested by the materials consultant. The test results shall be provided to the engineer for his use in determining the adequacy of the pavement design.
9. All structures such as manholes, valve boxes, etc. shall be adjusted to meet the new surface elevation. Furthermore, structures such as manholes, valve boxes, etc. that lie within Portland Cement Concrete slab areas (i.e. driveways, etc.) shall be boxed out by means of a cut out area with full depth joints.
10. All pavement, walk, and curb removal shall be accomplished by saw cutting prior to removal.
11. All pavement areas such as driveways shall have a two (2) inch diameter galvanized steel conduit buried beneath them at a depth of 24" (minimum) for future street light cable(s). The conduit shall extend a minimum of three (3) feet beyond the back of curb or edge of the pavement if no curb exists.
12. All drives in the right-of-way of public streets and in industrial and truck loading areas shall be a minimum of eight (8) inch thick portland cement concrete on a four (4) inch compacted granular base.
13. Saw cut existing curb at limit of the work and replace with depressed curb as required. Drill and dowel all new curb, including depressed curb, to existing as required.
14. All driveway material thicknesses shall meet the minimum pavement standard requirements of the Village of Wheeling.
15. Driveway apron removal and 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.
16. All dimensions for curbs are to back of curb, unless otherwise specified.
17. The use of cold-patch for temporary pavement patching shall be approved by the Village Engineer **prior** to placement.

STORM SEWER

1. All storm sewer pipes shall be reinforced concrete pipe conforming to ASTM C-76 Class IV with confined O-ring gasketed joints in compliance with ASTM C-361 or Tylox Super Seal gasket conforming to ASTM C-361.
2. Elevations of flared end sections shall be interpreted at the invert of the flared endsection.
3. All storm structures are to have open (grate) lids unless specified as having closed lids (C.L.).
4. Rim grades for storm sewer structures located within the curb and gutter are flow line elevations.
5. All sump pump and drain tile discharges shall be routed to the storm sewer system. Sump pump service connections shall be four (4) inch PVC SDR 26 conforming to ASTM D2751 or ASTM D3034 at a minimum slope of 2% and shall be air gapped. Minimum cover shall be two (2) feet, wherever possible.
6. All downspouts, footing drains, and outside drains shall discharge to the storm sewer or over ground as approved by the Village Engineer.
7. Minimum diameter of storm sewer shall be 12" unless approved otherwise.
8. No storm water shall be discharged to the sanitary sewer system.
9. Any storm sewer damaged during the work shall be repaired with full sized permanent or temporary storm sewer pipe. Use of temporary under-sized storm sewer pipe is strictly prohibited.

SANITARY SEWER

1. All sanitary sewers shall be P.V.C. pipe SDR 26 (min.) complying with ASTM D3034, with factory fabricated joints complying with ASTM D3212, and elastomeric gaskets complying with ASTM F-477 or as approved by the Village of Wheeling. Non Shear Couplings are to be used for all dissimilar pipe connections with prior approval by the Village Engineer. Watermain crossings shall consist of material and jointing in accordance with the Illinois Environmental Protection Agency Public Water Supplies Technical Policy Statements.
2. Sanitary sewers shall have a minimum cover of 3.5 feet to top of pipe.
3. All newly constructed sanitary sewers shall be televised and air tested and manholes vacuum tested as required by the Village of Wheeling and the Metropolitan Water Reclamation District of Greater Chicago.
4. Sanitary sewer services shall be connected to the main by use of a fitting or manhole.
5. All floor drains shall discharge to the sanitary sewer.
6. Sanitary services to be six (6) inch diameter D.I.P. Class 52 (min.) with a minimum slope of 1% prior to entering clean out, with a distance from outside of the foundation wall to be six (6) feet. Sanitary services to be six (6) inch diameter PVC pipe SDR-26 (min.) with a minimum slope of 1% after leaving clean out. Provide clean out on every lot near each single family house, at the change of pipe material, or as required.
7. Flexible rubber boots shall be used at all connections and penetrations into sanitary manholes.
8. All sanitary manholes to be provided with "Cretex" type chimney seals.
9. Manholes shall have steps sixteen (16) inches on center with step alignment to be perpendicular to the main pipe flow direction wherever possible.
10. All sanitary sewer and sewer joints shall conform to:

DIP	ANSI A-21.51	ANSI A-21.11
PVC SDR 26 (min.)	ASTM D-3034	ASTM D-3212
ABS (SDR 26)	ASTM D-2680	ASTM D-3212
Solid (8"-15" Truss)	ASTM D-2680	ASTM D-3212

11. All objectionable waste containing grease, fats, and/or oils shall discharge to an exterior grease interceptor or grease basin, with "water-tight" covers, before discharging into the sanitary sewer, including but not limited to restaurant and food preparation facilities. Automatic dishwasher and effluent domestic waste shall not discharge through the grease interceptor.
12. Contractor must pay special attention to the existing sanitary pipe and service lines. Contractor is responsible for any damage to the existing sanitary sewer system. Any damage to the sanitary sewer system shall be repaired by the contractor by removing & replacing the existing damaged sanitary pipe with matching size in ductile iron pipe without any compensation.

WATER MAIN

1. All water mains shall be pressure tested per requirements of the Village of Wheeling. Method shall be a leakage test of 150 p.s.i. held for 2 hours. 200 p.s.i. on fire suppression line.
2. All water mains shall be chlorinated per the requirements of the Village of Wheeling.
3. All water mains to be ductile iron pipe per ANSI A21.51 (AWWA C151), Class 52, with "push on" or mechanical joint as required by the Village Engineer or PVC SDR 18 AWWA C900 Restrained Joint Pipe conforming to AWWA C900-07. All Ductile Iron Pipe to be cement lined per ANSI A21.4 (AWWA C104).
4. The minimum cover for watermain shall be 5.5 feet from finished grade to top of main (6 ft. max. unless approved otherwise by the Village Engineer).
5. All water services shall be installed per the Village Standard.
6. Water service and fire suppression systems shall be made and installed by a licensed plumber, in accordance with the Illinois State Plumbing Code.
7. 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 the Village of Wheeling Public Works Utility Division (847-229-4600) at least 48 hours prior to tap and inspections.
8. The Village of Wheeling Plumbing Inspector (847) 459-2620 and Engineering Inspector (847) 229-4600 shall be contacted at least 48 hours prior to all water service work.
9. All B-boxes shall be 1-1/2" Mueller or Ford telescopic B-box with "WATER" imprinted on the lid of the box and a brass pentagon plug.
10. All fastener hard ware (i.e. nuts, bolts, and washers) associated with fittings shall be stainless steel.
11. All fittings shall be restrained by thrust resistant wedge, retainer glands, manufactured with torque limiting twist off nuts.
12. All brass fittings for services lines shall be "Lead Free" in accordance with AWWA C800, latest revision, made from UNS/CDA 89520 or UNS/CDA 89833. Brass alloy UNS/CDA 83600 is not acceptable for any brass component in contact with potable water.
13. Any lead caulking encountered at existing service line connections to the old watermain shall be removed and properly disposed of.

IEPA NOTES

Sewers crossing water mains shall be laid to meet the following specifications:

1. Horizontal Separation:
   a. Whenever possible, a water main must be laid at least ten feet horizontally from any existing or proposed drain or sewer line.
   b. Should local conditions exist which would prevent a lateral separation of ten feet, a water main may be laid closer than ten feet to a storm or sanitary sewer provided that the water main invert is at least eighteen inches above the crown of the sewer, and is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
   c. If it is impossible to obtain proper horizontal and vertical separation as described in 1 and 2 above, both the water main and sewer must be constructed of pipe material which would conform to water main standards and be pressure tested to assure water tightness before backfilling.
2. Vertical Separation:
   a. Whenever water mains cross house sewers, storm drains or sanitary sewers, the water main shall be laid at such an elevation that the invert of the water main is eighteen inches above the crown of the drain or sewer. This vertical separation must be maintained for that portion of the water main located within ten feet horizontally of any sewer or drain crossed. This must be measured as the normal distance from the water main to the drain or sewer.
   b. Where conditions exist that the minimum vertical separation set forth in 1 above cannot be maintained, or it is necessary for the water main to pass under a sewer or drain, one of the following two measures must be taken:
      i. The water main shall be installed within a PVC carrier pipe and the carrier pipe shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least ten (10) feet.
      ii. The involved sewer or drain shall be constructed of pipe material which would conform to water main standards until the normal distance from the water main to the sewer is at least ten (10) feet.
   c. In making such crossings, center a length of water main pipe over the sewer to be crossed so that the joints will be equidistant from the sewer and as remote there from as possible. Where a water main must cross under a sewer, a vertical separation of eighteen inches between the invert of the sewer and the crown of the water main shall be maintained, along with means to support the larger sized sewer lines to prevent their settling and breaking the water main.

   The horizontal and vertical separation between water service lines and all sanitary sewers, storm sewers, or any drain should be the same as for water mains, as detailed above, except that when minimum horizontal and vertical separation cannot be maintained, water pipe as described under Vertical Separation above, may be used for sewer service lines.

IEPA CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) NOTES

CCDD Compliant Material Disposal:

1. Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
2. The Contractor will be required to make all arrangements for coordination and submission of the testing reports and certification documents with their chosen CCDD disposal facility. Written confirmation of preliminary approval must be provided from the disposal facilitity and confirmed by the Village as acceptable.
3. All surplus, clean material generated from the Contractor's activities must be disposed of at an IEPA permitted CCDD facility. The Contractor is responsible for providing documentation to the Village for each load hauled off-site showing the quantity of material and the location the material was disposed of.
4. The removal and disposal of CCDD compliant trench spoils for the installation of the water main shall be considered incidental to the cost of the pipe.
5. No extra compensation will be allowed to the Contractor for any expenses incurred complying with the requirements including, but not limited to: delays, inconvenience, or interruptions in the work resulting from compliance with these requirements.

CCDD Non-Compliant Material Disposal:

1. Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
2. An estimated quantity has been established in the bid proposal to address areas of possible non-compliant material. If such materials are found during construction, the Contractor shall notify the Village immediately. Suspect materials are to be set aside on non-permeable tarps/plastic, etc. and covered until they may be assessed. If after assessment the material is found to be non-compliant, it shall be loaded onto trucks for proper landfill disposal off-site. Disposal documentation will be provided by the Contractor to the Village prior to any applications for payment being requested.
3. The Village will provide a third party testing company to sample and analyze discovered suspect non-compliant material. After receipt of the analysis report, the Owner will determine the probable limits of contamination and confirm with the Contractor in order to establish a material quantity. Work shall include all labor, equipment,materials, trucking, re-handling, etc. as required to stockpile and dispose of material, whether compliant or not. Only material determined to be non-compliant shall be paid for at the provided unit price. Re-handling and disposal of material determined to be compliant shall be incidental to the water main pipe installation.

SUPPLEMENTAL NOTES

Note: In case of a conflict, contradiction, or discrepancy between the Village of Wheeling Notes or Village of Wheeling details and the Supplemental Notes, the Village of Wheeling Notes/Details shall apply, unless otherwise approved by the Village of Wheeling Engineer.

GENERAL NOTES

1. Definition of Terms:
   a. "Owner" shall mean the person or entity with which Haeger Engineering, LLC has been contracted with to prepare the Plans and Specifications.
   b. "Engineer" shall mean Haeger Engineering, LLC.
   c. "Contractor" shall mean the persons or entities responsible for performing and constructing the work described in the Plans, Specifications and other Construction Documents including but not limited to furnishing all labor, materials, tools, equipments, and other incidentals necessary.
   d. "Plans and Specifications" shall mean the Engineering Drawings and any Specifications prepared by Haeger Engineering, LLC, the Engineer.
   e. "Jurisdictional Agency" shall mean any local, municipal, county, township, state or federal entity of government or other entity having jurisdiction of some aspect of the project from whom approval, permit and/or review and approval was required.
2. The Specifications governing this project are as follows:
   a. All applicable Village/City and other applicable Jurisdictional Agency Ordinances, Codes, Regulations, Requirements, Policies, Specifications, Standards, etc.
   b. Roadway and Earthwork construction shall conform to the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction", latest edition and any subsequent "Supplemental Specifications and Recurring Special Provisions" as well as any applicable IDOT Highway Standards. Hereafter these items shall be collectively be referred to as the IDOT Standard Specifications.
   c. Water Main, Storm Sewer, and Sanitary Sewer construction shall conform to the "Standard Specifications for Water and Sewer Construction in Illinois", latest edition.
   d. Soil Erosion and Sedimentation Control shall conform to the Illinois Environmental Protection Agency (IEPA) "Illinois Urban Manual" (IUM), latest edition and "Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control", latest edition.
   e. Traffic Control shall conform to the "Manual of Uniform Traffic Control Devices" (MUTCD), latest edition, as well as the "Illinois Supplement to the MUTCD", and IDOT "Quality Standard for Work Zone Traffic Control Devices", latest edition.
   f. All handicap accessibility items shall conform to the Illinois Accessibility Code (IAC), latest edition.
   g. General Notes and Specifications contained herein or elsewhere as a separate document.

   If a conflict, contradiction, or discrepancy occurs between any of the above Specifications the more stringent requirement shall apply, unless directed otherwise by the applicable Jurisdictional Agency.
3. Contract Documents:
   a. The Engineer's Plans and Specifications shall be included as part of the Contract Documents.
   b. All Contractors shall carefully examine the Plans and Specifications, and other Contract Documents prepared for the work. They shall visit the site of the work and acquaint themselves with all local conditions, codes, and requirements affecting the contract. If awarded the contract, they shall not be entitled to any additional extra compensation by reason of difficulties or obstacles which the Contractor could have discovered or reasonably anticipated or inferred prior to bidding or start of construction.
   c. Should it appear that the work covered by the Plans and Specifications or other Contract Documents is not sufficiently detailed or explained, a Request For Information (RFI) Form shall be submitted to the Engineer for further explanations and drawings as may be necessary to clarify the point in question prior to the contract award. It is the intention of the Contract Documents to provide a job complete in every respect. Incidental items or accessories necessary to complete the work may not be specifically noted or shown but that are necessary to complete the project shall be considered incidental to the Contract. The Contractor is responsible for this result and to turn over the project in complete operating condition, irrespective of whether the contract documents cover every individual item in minute detail.
   d. If any additional soils data is needed to confirm the Contractor's opinions of the subsurface conditions, this shall be done at the Contractor's expense. The Contractor shall obtain the Owner's written authorization to access the site to conduct a supplemental investigation. Any bracing, sheeting, dewatering or special construction methods deemed necessary by the Contractor in order to install the proposed improvements shall be considered incidental to the Contract and no additional compensation will be allowed.
4. Should any appearances, omissions, discrepancies or conflicts be discovered on the Plans, Specifications, Quantities or other Contract Documents by the Contractor, whether prior to or after the award of the contract, the Engineer's attention shall be called to the same before work is begun thereon, so that proper clarification can be provided or revision made. If any work is done without contacting the Engineer, it shall be considered that the Contractor has accepted all of the work and expense.
5. Whenever the performance of work is indicated on the Plans, and no specific item is included in the Contract for payment, the work shall be considered incidental to the Contract and no additional compensation will be allowed. The Contractor shall provide all necessary labor, material, equipment, etc. necessary to perform all the work required for construction of the proposed improvements.
6. The base plan/drawing for the Engineering Plans (existing conditions, site topography, utilities, rights-of-way, etc.) was obtained from the topographic survey prepared by:

   Haeger Engineering, LLC
   100 East State Parkway
   Schaumburg, IL 60173
   (847) 394-6600
   12-07-3A
7. The Owner shall obtain the necessary approvals from the following Jurisdictional Agencies:
   a. Village of Wheeling
   b. Illinois Environmental Protection Agency (IEPA) - Water Division
8. The Contractor, unless otherwise agreed upon in writing with the Owner prior to the start of Construction, shall at his own expense, obtain all other approvals including permits, licenses, etc., as may be required for the execution of this work as well as provide all necessary notices, pay all fees required, post bonds, obtain all necessary insurance, and comply with all laws, ordinances, rules, and regulations relating to the work and to the preservation of public health and safety. The Contractor shall also provide all required insurance and/or bonds as may be required by the Jurisdictional Agencies. In addition, the Contractor shall meet all of the requirements of any permits as might be issued for this work by other Agencies, and shall pay for at their sole expense any such permits, insurance or bonds as may be required by the Jurisdictional Agencies.
9. No work shall proceed until the appropriate permit or permits have been obtained for the item or items to be constructed. If any work does proceed without the appropriate permits or approvals, it is being done without the permission or consent of the Engineer. The Contractor and Party authorizing the work to proceed shall be assumed to be proceeding at their own risk and the Engineer shall not be held liable or responsible for any work being performed without a permit.
10. The Contractor shall indemnify and hold harmless the Owner, Engineer, Village/City, and other Jurisdictional Agencies as well as all of their respective officers, employees, agents, and Engineers from and against all losses, claims, demands, payments, suits, actions, recoveries, and judgment of every nature and description brought or recovered against them, by reason of any act, error or omission of said Contractor, their agents or employees in the execution of the work or in the guarding of it.
11. The construction work shall be under the general inspection and observation of the designated individual authorized by the Village/City or other applicable Jurisdictional Agencies. The Village/City, Jurisdictional Agencies, Owner, and Engineer shall be notified at least two working days prior to the commencement of work.
12. In some instances, the existing utilities are shown on the Plans according to information obtained from the utility companies (atlas information) and/or surveys performed By Others. The Owner and Engineer do not guarantee the accuracy or completeness of this information. The Contractor shall be aware of potential conflicts with existing or other proposed utilities as indicated on the Plans or that become apparent as the result of field locates By Others. The Contractor shall make their own investigations as necessary to determine the existence, nature, and location of all utility lines and related appurtenances within the limits or adjacent to the proposed improvements. The Contractor shall locate all utilities far enough in advance to avoid all conflicts between existing utilities and proposed improvements and make the Engineer aware of any such conflicts. If the Contractor encounters a conflict between the proposed improvements and existing utility that was not located in advance by the Contractor, then the Contractor shall at no cost to Owner, relocate the proposed improvements and/or utility to avoid the conflict.
13. The Contractor will be required to cooperate with all utility companies involved in connection with the removal, temporary relocation, construction, reconstruction or abandonment by these companies of any and all services or facilities owned or operated by them within the limits or general vicinity of the proposed improvements. Further, at the direction of the Owner and Utility Companies the Contractor shall coordinate the location and install PVC sleeves as necessary under the proposed pavement, curbs, walks, etc. for utility companies to run their proposed utility lines.
14. Before doing any work which will damage, disturb or leave unsupported, or unprotected any utility lines or related appurtenances encountered, the Contractor shall notify the respective Owner thereof, who will make all arrangements for relocating, adjusting, bracing, or otherwise maintaining or abandoning service on lines that fall within the limits of the proposed construction without cost to the Contractor, including the removal of all cables, manhole covers and other related appurtenances which the Owner desires to salvage. After such arrangements have been made, the Contractor will proceed with the work as directed by the Engineer. All utility lines and related appurtenances which are abandoned shall be removed if necessary and legally disposed of legally off-site by the Contractor.
15. No extra compensation will be allowed by the Contractor for any expense incurred for complying with all of these aforementioned utility coordination and cooperation requirements, or because of delays, inconvenience or interruptions in their work resulting from the failure of any utility company to remove, relocate, construct, reconstruct or abandon their services. The responsibility for prompt and timely removal, relocation, reconstruction or abandonment of their facilities by all utility companies involved, and the coordination of their own work with that of these companies to the end that work on this improvement shall not be delayed because of the necessary changes in the existing utilities, public or private, shall rest upon the Contractor.
16. Prior to commencing work, the Contractor is to field check and verify all critical locations, elevations, materials, sizes, dimensions, and conditions affecting the work, and notify the Engineer immediately if there are any suspected discrepancies. No work shall be performed until the suspected discrepancy has been resolved. The Contractor shall also call to the attention of the Engineer any errors or discrepancies which may be suspected in the lines and grades which are established by the Surveyor, and shall not proceed with the work until any lines and grades which are to believed to be in error have been verified or corrected by the Engineer.
17. The Contactor shall maintain positive drainage at all times during construction. Construction shall not block off-site drainage and the flow from any drainage ways, field tiles, storm sewers or similar draining off-site properties. All on-site existing field tiles, storm sewers, drainage ways shall be preserved or damaged during construction shall be maintained, restored to their original pre-construction condition or better, properly re-routed, and/or connected to the proposed stormwater drainage system. If this can't be accomplished then the field tile should be repaired or re-routed with new pipe of similar diameter to the original line and put back in service. The Contractor shall notify the Engineer if any such field tiles are encountered. Whenever during any construction activities any loose material is deposited in the flow line of gutters, ditches, drainage structures, etc. such that the natural flow of water is obstructed, this material shall be removed by the responsible party.
18. Prior to commencement of construction, on sites that will ultimately result in the disturbance of one (1) acre or more, the Contractor shall be responsible for obtaining a copy of the notice of coverage letter and the IEPA National Pollutant Discharge Elimination System (NPDES) General Permit ILR10 from the Owner. The Owner shall together along with the Contractor and/or other entities if so designated by the Owner, shall be responsible for ensuring that all the requirements of the General Permit and the Storm Water Pollution Prevention Plan (SWPPP) including but not limited to the installation, maintenance as well as the installation of any additional measures necessary that may be required, and inspections of the soil erosion and sediment control measures and certifications, reports, logs, etc. as well as completing all the necessary applications, etc. Inspections are required to be performed at least once every seven (7) calendar days and within 24 hours of the end of a storm event of 0.5 inches of rain (or equivalent snowfall) or greater. The SWPPP and all the required documentation and permits shall be kept on-site and be organized and ready for viewing.
19. No construction activities, disturbance or fill shall occur within the limits of natural resources such as wetlands, floodplains, creeks, streams, ponds, lakes, basins, reservoirs, etc. or their respective buffers unless specifically specified on the Plans and further that the work has been permitted. The Contactor shall take sufficient precautions to protect these natural resources that are to remain, whether on-site or on adjacent property, to protect them from sediment, fuels, oils, bitumens, calcium chloride, or other harmful materials that may be a detriment. The Contractor shall conduct and schedule their Construction so as to avoid siltation, or other disturbance or impact to these natural resource areas. The Contractor shall not disturb or otherwise impact these designated natural resource areas, or areas that have been designated to be protected or as essential habitat for State or Federal listed endangered or threatened species, or Prairie or Savannah areas where the Owner has made commitments for protection of these areas. Also, if previously unidentified natural resource areas, prairies, savannahs, or areas or locations suspected of containing protected species are identified during construction, the Contractor shall not disturb them unless written permission to do so is granted by the Owner or applicable Jurisdictional Agency. If the Owner, Engineer, or applicable Jurisdictional Agency determines that additional measures are necessary to prevent or mitigate project effects on natural resource areas, prairies, savannahs, protected species, or essential habitat the Contractor shall cooperate in accomplishing these measures.
20. The Contractor shall confine their activities to within the project boundaries, work areas, or easements specified. No work shall be performed on adjacent private property or outside the project work areas without the written permission of each respective Owner. The Contractor shall be liable for damage caused to existing or newly installed improvements as well as any damage on adjacent property or areas outside designated work areas, provided damage us a result of Contractor action, or lack thereof.
21. The Contractor is responsible for returning all areas affected by equipment, materials and/or laborers to pre-construction condition or better. All existing utilities or improvements, including but not limited to pavements, curbs, drives, trees, and parkways damaged or removed during construction shall be promptly restored to their respective original pre-construction condition or better. The Contractor is also responsible for protecting all improvements and work from damage until the project has been completed and has been approved and accepted by the Owner.
22. Clean-up and final restoration shall be performed immediately upon completion of each phase of the work or when directed to do so by the Owner, so that these areas will be restored as nearly as possible to their original pre-construction condition or better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, landscaping, fences, mailboxes, storm sewers, drain tiles, sanitary sewers, water mains, etc. It shall also be the responsibility of the Contractor to remove from the site any and all materials and debris which results from their construction operations at no additional expense to the Owner.
23. All proposed grades shown on the Plans shall be considered to be finished grade surface elevations unless noted otherwise.
24. Construction staking/layout shall be provided by the Contractor and shall be included in the Contract Price unless otherwise agreed upon in writing with the Owner prior to the start of Construction.
25. All Construction means and methods, techniques, procedures, scheduling, sequencing, and job site safety is the sole responsibility of the Contractor.
26. The Contractor shall observe and comply with all the Occupational Safety and Health Administration (OSHA) standards, rules and regulations, as well as any other applicable local, state and federal safety requirements.
27. All trenching, shoring, bracing and construction work performed shall be in accordance with the Occupational Safety and Health Administration (OSHA) standards.
28. The Contractor shall take whatever steps necessary to protect the public from open trenches, excavations, and other site obstructions or hazards. No trenches, excavations or holes in the pavement or parkway are to be left open over a holiday, weekend, or after 3 p.m. on the day preceding a holiday or weekend.
29. During construction, it shall be the Contractor and their Sub-Contractors shall be responsible for removing all rubbish, debris, waste material and other accumulations as necessary. The Contractor shall clean the premises to the satisfaction of the Village/City and Owner.
30. The Contractor shall have appropriate equipment and material including street sweepers and end loaders available on site at all times when equipment or vehicles are using existing public or private roads and/or pavement. The Contractor shall immediately remove any sediment or debris including but not limited to dirt, mud, clay, sediment, concrete, gravel, sand, stones, plant material, refuse, garbage, oil, grease, etc. deposited on any roadway, street, walk, alley or other pavement by any equipment, vehicles or personnel associated with this project. This work shall be considered incidental to the Contract.
31. The Contractor shall at all times maintain proper dust control at the site and shall have a watering truck readily available during all working hours. The Contractor shall water the entire site whenever the site conditions become unhealthy due to blowing soil or dust. The site shall be watered three times per day as necessary to maintain a healthy work site as determined by the Owner or Engineer. Water for non-emergency use shall not be obtained from any fire hydrant, unless the fire hydrant is metered with a proper backflow preventer in accordance with Village/City or Jurisdictional Agency requirements. The cost to furnish water required for construction shall be incidental to the cost of Construction.
32. Trees not marked for removal shall be protected as necessary by the Contractor. In the event that a tree is damaged by the Contractor during construction, the Contractor shall replace such tree with a tree or trees in accordance with Village/City requirements. If the Village/City does not have specific tree replacement requirements, the damaged existing or newly planted tree shall be replaced in accordance with the procedures outlined in Section 201 of the IDOT Standard Specifications. The Contractor shall ensure that they are familiar with the applicable tree preservation requirements and shall be held responsible for the replacement of all damaged trees not designed for removal, and any penalties associated with the unapproved removal of trees.
33. Where overhanging branches, limbs, or roots interfere with the required construction activities, said branches, limbs, or roots shall be trimmed or pruned as necessary in accordance with Section 201 of the IDOT Standard Specifications. This work shall be performed under the supervision of an approved arborist or landscape architect.
34. The Contractor is responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices, in accordance with the Plans, applicable IDOT Standard Specifications and the MUTCD Standards in order to inform and protect the public during all phases of construction. The Contractor shall provide all signage, barricades, devices, equipment, personnel, etc. necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. Roadways shall remain open to a degree satisfactory to the Owner or applicable Jurisdictional Agency which at their discretion may require the Contractor to furnish traffic control under these or other circumstances where in their opinion it is necessary for the protection of life and property. Emergency vehicle access along with access to fire hydrants shall be maintained at all times. Further, unless authorized by the Owner, all existing access points shall be maintained at all times by the Contractor.
35. Where noted in the Plans, the Contractor shall have Shop Drawings and any other required supporting documentation or calculations prepared

PAVING NOTES AND CONDITIONS

1. The Contractor shall coordinate construction activities with utility companies and the Village of Wheeling.
2. The Contractor shall be responsible for the protection of all underground utilities even though they may not be shown on the plans. Therefore, the Contractor shall have the respective utility companies field locate all of their facilities prior to beginning construction. any relocation or lowering of utilities shall be coordinated by the Contractor. Utilities that are damaged during construction shall be repaired or replaced by the Contractor at his own expense.
3. Ten (10) feet or three (3) meter transitions shall be used to match proposed curb and gutter and median items of work to existing curbs & gutters and medians in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed items of work specified.
4. Barricades: The Contractor shall provide and install two (2) weighted sandbags on each type I or type II barricade used- (1) weighted sand bag across each bottom rail.
5. All the work performed by ths Contractor shall be guaranteed for a period of twelve (12) months from the date of final acceptance by IDOT. This guarantee shall include all defects in materials and workmanship.
6. The Village of Wheeling, Illinois, Public Works Department must be notified at least two (2) working days prior to a request for inspection, commencement or resumption of any work.
7. The Contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures and all other measures that are necessary to protect the safety of the project area at all times.
8. All structures, inlets, pipes, swales and roads must be kept clean and free of dirt and debris at all times.
9. Adjustment of any sanitary sewer manhole frames shall include the installation of chimney seals in accordance with Village requirements. The cost of the chimney seal shall be considered incidental to the adjustment of the structure.
10. Any defective or non-bicycle safe frame & grates shall be brought to the Village's attention. All frames & grates to be replaced shall remain property of the Village and shall be stored in the right-of-way for pick up by the Village.
11. Any mailboxes that are in conflict with the proposed construction shall be removed and replaced in accordance with the Village standards. This work will be included in the contract. Mail service shall be maintained all the times. Contractor must be careful with the existing mailboxes. Any damaged mailboxes shall be replaced by the Contractor at no additional cost to the homeowner or the Village.
12. Existing driveway pavement, sidewalk, and curb and gutter to remain in place shall be saw cut full depth to provide a neat vertical face between the proposed and the existing structure. This work shall be considered incidental to each pay item.
13. Brick driveway pavement shall be constructed on 8-inches of compacted CA-6 Grade 8 crushed limestone base (2 lifts) topped with 1-inch of sand, price of which shall be included in the pay item brick driveway pavement. No extra compensation will be allowed.
14. Class D patches shall be constructed at locations determined by the engineer in the field. Any saw cuts associated with this pay item will be considered incidental and no extra compensation will be made. Any subbase removal beneath it will also be incidental.
15. Any roots encountered while removing the sidewalk or driveway aprons shall be saw-cut and disposed by the Contractor.
16. Tree root pruning shall be provided at each tree location, the price of which shall be included in the pay item tree root pruning. No extra compensation will be allowed.
17. Limits of curb & gutter and sidewalk removal are approximate and shall be marked in field by Engineer/Owner. Limits are subject to change.
18. All items which are damaged or disturbed as a result of work shall be replaced to existing condition or better at the contractor's expense.
19. Access to streets and private driveways shall be provided at all times except during actual construction adjacent thereto. Temporary ramps shall be constructed as necessary to provide such access utilizing crushed aggregate (cost incidental). It will be the Contractor's responsibility to notify the residents and businesses when access to their driveways will be temporarily closed due to curb and gutter, driveway or sidewalk replacement. The contractor shall distribute Village approved notices of anticipated closures. Every effort shall be made to accommodate access to these properties involving placement of pavement in stages across driveways and knocking on doors when driveways will be closed.
20. Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles on public streets is maintained at all times.
21. Restoration limits shall be limited to maximum of 2-ft immediately adjacent to edge of removed and replaced curb and gutter, sidewalk or driveway. Any additional disturbed areas will not be paid for.

CONC. CURB, SIDEWALK & PAVING NOTES

1. The finished hot-mix asphalt surface course shall be constructed to 1/4" above the edge of gutter flag.
2. The proposed curb and gutter shall be depressed at abutting sidewalks and across driveways as indicated on the plans.
3. Saw cutting required for removal of existing driveway pavement, sidewalk, curb and gutter and where the proposed pavement abuts existing pavement to remain in place (begin, end and limits of construction) shall be as specified in article 440 of the Standard Specifications. Provide a neat vertical face between the proposed and existing surfaces. Saw cutting shall be included in the pay item being removed. All saw cutting shall be full depth.
4. Curb & gutter and driveway removal and replacement work shall be limited to one side of the street in each direction at a time to minimize congestion. Full depth saw cut 1 feet minimum off of edge of pavement is required prior to C&G removal to allow space for proper compaction of pavement base course (incidental).
5. Construction operations involving temporary closing of driveways or roads shall not commence without at least three (3) working days prior notice to the Village by the Contractor. The Contractor will also be required to provide 48 hours notice to affected parties by distributing written notices and posting signs.
6. Construct temporary ramps to adjoining pavement or driveways as needed or directed by Engineer. These ramps must be minimum two car wide and shall be constructed for the entire width of pavement removal. These ramps shall be constructed using crushed limestone CA-6, Gr-8, virgin material or as directed by the Engineer. Proper temporary driveway entrance signs must be installed. The Contractor is responsible to maintain open access to all side streets, homes, industries, and businesses at all times. These temporary ramps shall be considered incidental to pavement removal and will not be paid for separately.
7. All the density tests will be performed by using cores.
8. Leveling binder shall be used around the structures in the roadway in variable thickness as necessary or as determined by the engineer.
9. Protective coating for all concrete surfaces shall be considered included in cost of respective pay items.
10. Proposed $\frac{3}{4}$" preformed expansion joint is required at concrete sidewalk, driveways and curb and gutter and shall be incidental to the curb and gutter removal and replacement.
11. In areas where the existing driveway, sidewalk or curb and gutter is to be removed and replaced, the removal and disposal of any additional material required to establish the proposed driveway, sidewalk or curb and gutter subgrade elevation shall be included in the respective removal pay items.
12. If any milled pavement is open to traffic, the maximum grade differential between passes of milling machine shall not exceed 1.5 inches.
13. If any soft or yielding materials are detected after excavation to subgrade, the Contractor will at the direction of the Geotechnical Engineer to remove the material and replace with porous granular embankment, subgrade.

DRAINAGE NOTES

1. Any saw cuts and excavation required to remove and install drainage structures or storm sewer pipe shall be considered incidental to the item being removed or installed.
2. Trench backfill used shall be CA-6 (grade-8) crushed limestone and shall be considered incidental to the item being installed. No crushed concrete will be allowed as trench backfill material. Trench backfill shall be provided up to the existing pavement grade to eliminate any voids created and to provide temporary roadway access. The backfill material shall be placed in 8 inch lifts, loose measurement, and compacted by mechanical means to the satisfaction of the engineer.
3. Contractor must imply careful method to salvage all existing pipes. If any of the existing pipes are damaged during construction; the Contractor shall replace the damaged pipe at no extra cost to the Village. No extra compensation will be allowed.
4. Inlet and pipe protection must be installed in all open grate structures that recieve drainage from disturbed areas prior to commencing the work and shall be maintained regularly throughout the length of the project.
5. Contractor shall grade and construct improvements to provide positive drainage. Ponding water will not be permitted.
6. All Frame & Lid castings located within pavement which required adjusting to finished grade shall be backfilled with Class SI Concrete and allowed to cure for 72 hours prior to placement of surface course. Class PP Concrete shall be utilitzed if surface course is to be placed in less than 72 hours. HMA materials will not be allowed as backfill around adjusted frames. This work shall be incidental to drainage & utility structures to be adjusted.
7. All storm drainage structures in curbs shall have modified drainage structure and pipe underdrain (special) per Village of Wheeling details.

TRAFFIC / CONSTRUCTION STAGING

The Contractor shall submit a pre-planned sequence of work at the pre-construction meeting for review and approval. The Contractor's superintendent and the Resident Engineer will be required to work together with the affected residents in planning their construction schedule so as to minimize the inconvenience and maintain a reasonable level of construction efficiency. The Resident Engineer and/or the Village reserve the right to restrict work on a pavement segment if construction operations on the previous segment are unacceptable.
The sequence of traffic / construction staging is recommended in the order listed below:
Stage 1 - Utility & Drainage structure improvements
Stage 2 - Curb and gutter, driveway and sidewalk removal and replacement where identified
Stage 3 - Pavement removal (see typical section for depth of removal)
Stage 4 - Pavement replacement - Resurfacing Areas
- Repair aggregate sub-base and/or subgrade in identified deteriorated areas
- Proof-roll compacted aggregate base course areas
- Install hot-mix asphalt binder course, in one 3" lift - install hot-mix asphalt surface course
Stage 5 - Install pavement markings and restoration as required

DRIVEWAY CLOSINGS:

It will be the Contractor's responsibility to notify residents and the Village two (2) days in advance when access to the residents' driveways will be temporarily closed due to the curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accomodate access to these properties (i.e. knock on doors when driveway is about to be closed).

DEBRIS REMOVAL:

Materials resulting from the removal of pavement, driveways, curb and gutter, Hot-Mix Asphalt pavement and subgrade, etc. shall be removed at the end of each day to a village approved site. In the judgment of the Village, should it be necessary to remove such materials, the Village will have the material removed and the Contractor shall be billed (charged) accordingly.

WATER SUPPLY:

The Contractor can obtain municipal water in bulk, at NO CHARGE, as long as there is not a "watering ban" in effect. Prior to obtaining any water, an account with the Finance Department must be set up for documentation on water usage. The indiscriminate use of fire hydrants is strictly prohibited. Water for construction shall be metered or otherwise accounted for on a daily log maintained with the Public Works Department. The Contractor shall provide the water truck and driver required to obtain and transport this water. The Village reserves the right to restrict or refuse the use of Village water if deemed necessary.

ADDITIONAL SPECIFICATIONS / INCIDENTALS NOTES:

1. Monotholically poured curb for the 'MODIFIED CURB DRAINAGE STRUCTURE TO BE ADJUSTED' shall be incidental to the cost of that pay item. No extra compensation will be paid for lineal feet of curb and gutter.
2. 'REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL' shall include the removal of all uncontaminated material required for removal in order to achieve the proposed design elevations, as well as any material required for undercut removals as directed by the Geotechnical Engineer.
3. Removal and Disposal of 'CONTAMINATED WASTE' shall include the storage, removal, and proper disposal of any materials determined to be 'contaminated' in accordance with IEPA standards.
4. All existing mailboxes are to remain in service at all times. Any necessary removals and/or reinstallations of mailboxes shall be done at the expense of the Contractor and are incidental to the Contract.
5. Whenever the performance of work is indicated on the plan, and no pay item is included in the contract for payment, the work shall be considered incidental to the contract and no additional compensation will be allowed.

#	DESCRIPTION	UNIT	QUANTITY
1	TREE TRUNK PROTECTION	EA	6
2	TREE REMOVAL	EA	6
3	TREE ROOT PRUNING	EA	6
4	SILT FENCE	LF	2550
5	6-FT CHAIN-LINK FENCE REMOVAL AND REPLACEMENT	LF	50
6	6-FT CHAIN-LINK FENCE GATE INSTALLATION	EA	2
7	5-FT TEMPORARY CONSTRUCTION FENCE	LF	500
8	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CY	100
9	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	LF	50
10	DRIVEWAY PAVEMENT REMOVAL	SY	15
11	SIDEWALK REMOVAL	SF	550
12	PAVEMENT REMOVAL ABOVE UTILITY TRENCH	SY	627
13	STORM SEWER REMOVAL	LF	27
14	BLOCK STORM SEWER	EA	4
15	MOBILIZATION	LS	1
16	CONSTRUCTION LAYOUT	LS	1
17	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LS	1
18	POROUS GRANULAR EMBANKMENT	CY	100
19	COMBINATION CONCRETE CURB & GUTTER, TY M (SPECIAL) - M3.12	LF	50
20	CURB WEDGE AREA BACKFILL (P.C.C.)	LF	50
21	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6-INCH	SY	15
22	PCC SIDEWALK, 5-INCH	SF	550
23	BITUMINOUS MATERIALS (TACK COAT)	POUND	50
24	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2-INCH	SY	630
25	HOT-MIX ASPHALT BINDER COURSE, IL-19, N50, 3-INCH	SY	630
26	AGGREGATE BASE COURSE, 12-INCH	SY	630
27	8-INCH WATERMAIN ADJUSTMENT	LF	25
28	ADJUST SANITARY SERVICE 6-INCH TO CLEAR STORM SEWER	LF	65
29	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	1
30	MODIFIED CURB DRAINAGE STRUCTURE STANDARD	EACH	1
31	INLET & PIPE PROTECTION	EACH	2
32	24-INCH PVC C-900 STORM SEWER	LF	27
33	30-INCH RCP STORM SEWER	LF	18
34	36-INCH RCP STORM SEWER	LF	1563
35	36-INCH RCP STORM SEWER - ELLIPTICAL	LF	203
36	MANHOLE 60-INCH DIAMETER	EA	11
37	MANHOLE 72-INCH DIAMETER	EA	4
38	MANHOLE 72-INCH DIAMETER, OVERFLOW STRUCTURE	EA	1
39	CATCH BASIN 60-INCH DIAMETER	EA	1
40	FLARED END SECTION 36-INCH	EA	1
41	SEWER TELEVISING	LF	1811
42	TEMPORARY COFFERDAM, TYPE 1	LS	1
43	IN-STREAM WORK	LS	1
44	TOPSOIL FURNISH & PLACE, 3-INCH	SY	1325
45	NITROGEN, POTASSIUM, PHOSPHORUS FERTILIZER NUTRIENT	POUND	40
46	SEEDING, NATIVE SEEDING, WITH BLANKET	SY	30
47	SEEDING, IDOT CLASS 1, WITH BLANKET	SY	950
48	SEEDING, IDOT CLASS 4A, WITH BLANKET	SY	950
49	SODDING	SY	425
50	TREE, RED MAPLE, 3-INCH CALIPER	EA	8
51	CONSTRUCTION CONTINGENCY	LS	1

No. | Date | Revision

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www.haegerengineering.com

GENERAL NOTES & SPECIFICATIONS
EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03.26.2020
Project No. 18-253
Sheet C2.1 / C5

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Plot Date: Mar 27, 2020 - 1:50pm Plotted By: mike-o
File Name: P:\2018\18253\Drawings\Final Engineering\18253-Final Engineering.dwg

LEGEND

- PAVEMENT REMOVAL
- CURB REMOVAL
- SAW CUT
- TREE REMOVAL
- TREE PROTECTION
- REMOVE PIPE
- EROSION CONTROL / SILT FENCE

NORTH

5 0 20

Scale: 1" = 20'

698

618

HASTINGS ROAD

GARTH ROAD

Tree Protection Fencing

Remove Storm Sewer and Catchbasin

Remove Storm Sewer

Remove Parkway Tree

Block Pipe

Brick Pad

TF= 652.64
GF= 651.87

Bituminous Drive

Brick Drive

Concrete Drive

Concrete Apron

Conc. Walk

Block Wall

Concrete Pavement

RipRap

MATCH LINE - SEE BELOW

OUTLOT B

MATCH LINE - SEE ABOVE

MATCH LINE - SEE SHEET C3.1

Silt Fence

20' Temporary Construction Easement

15' Public Drainage Easement

Existing 10-ft Utility Easement

Chain Link Fence/ Backstop

Chain Link Fence

Wood Fence

Brick Walk

OHW

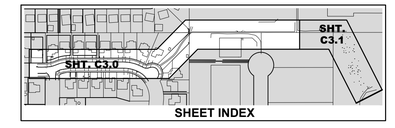
Remove, Securely Store, and Replace Fencing

Concrete Pavement

FF= 656.18

Shed

SHEET INDEX



No.	Revision	Date

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EX. CONDITIONS, DEMOLITION, & EROSION CONTROL PLAN

EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS

VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03.26.2020
Project No. 18-253
Sheet C3.0 / C5

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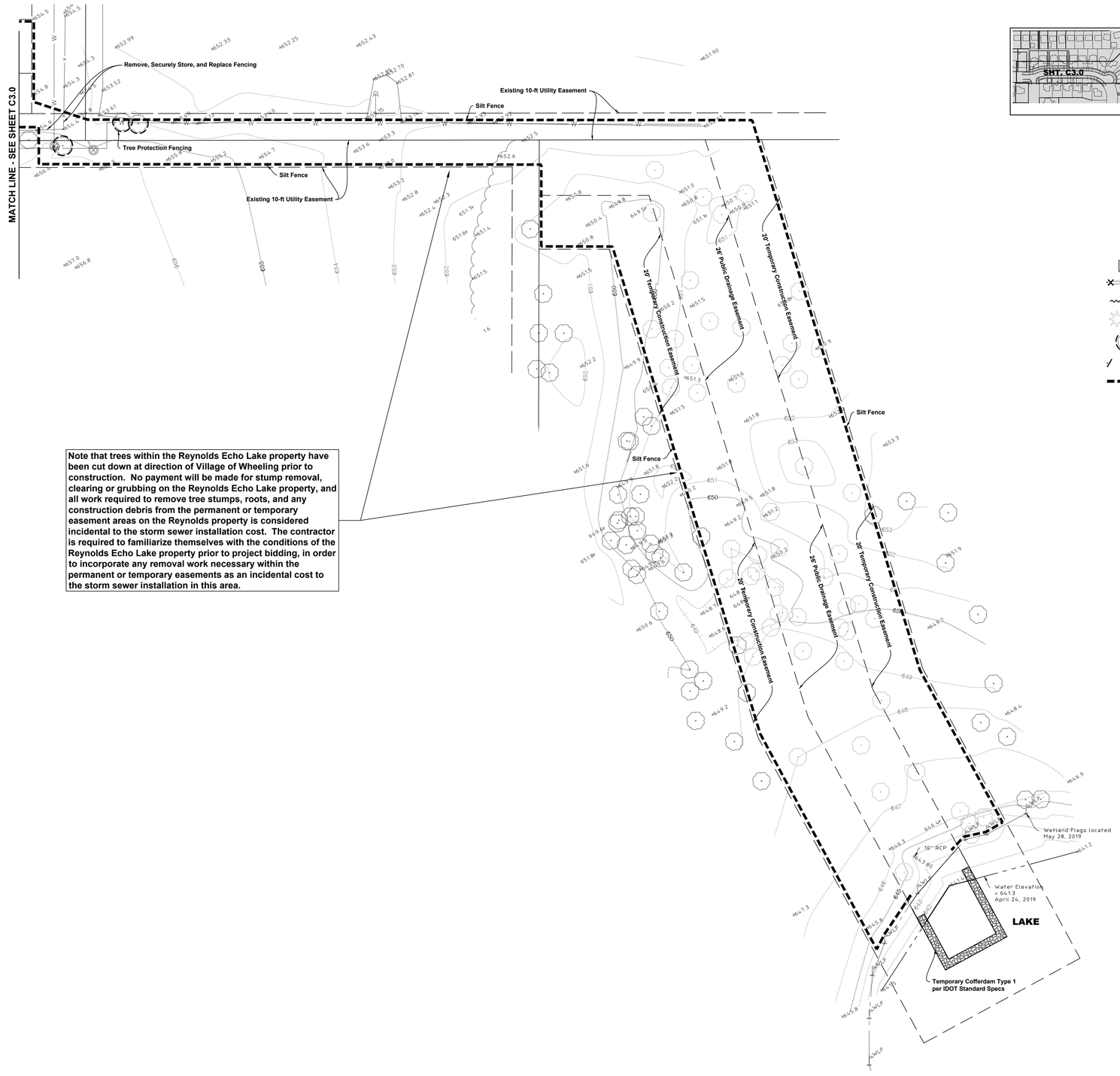
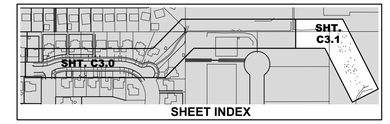
Plot Date: Mar 27, 2020 - 1:50pm Plotted By: mike-o
File Name: P:\2018\18253\Drawings\Final Engineering\18253-Final Engineering.dwg



Note that trees within the Reynolds Echo Lake property have been cut down at direction of Village of Wheeling prior to construction. No payment will be made for stump removal, clearing or grubbing on the Reynolds Echo Lake property, and all work required to remove tree stumps, roots, and any construction debris from the permanent or temporary easement areas on the Reynolds property is considered incidental to the storm sewer installation cost. The contractor is required to familiarize themselves with the conditions of the Reynolds Echo Lake property prior to project bidding, in order to incorporate any removal work necessary within the permanent or temporary easements as an incidental cost to the storm sewer installation in this area.



LEGEND

- PAVEMENT REMOVAL
- CURB REMOVAL
- SAW CUT
- TREE STUMPS TO BE REMOVED BY CONTRACTOR AS INCIDENTAL PROJECT COST
- TREE PROTECTION
- REMOVE PIPE
- EROSION CONTROL / SILT FENCE

NORTH

5 0 20

Scale: 1" = 20'

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EX. CONDITIONS, DEMOLITION, & EROSION CONTROL PLAN

EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS

VILLAGE OF WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03.26.2020
Project No.	18-253
Sheet	C3.1 / C5

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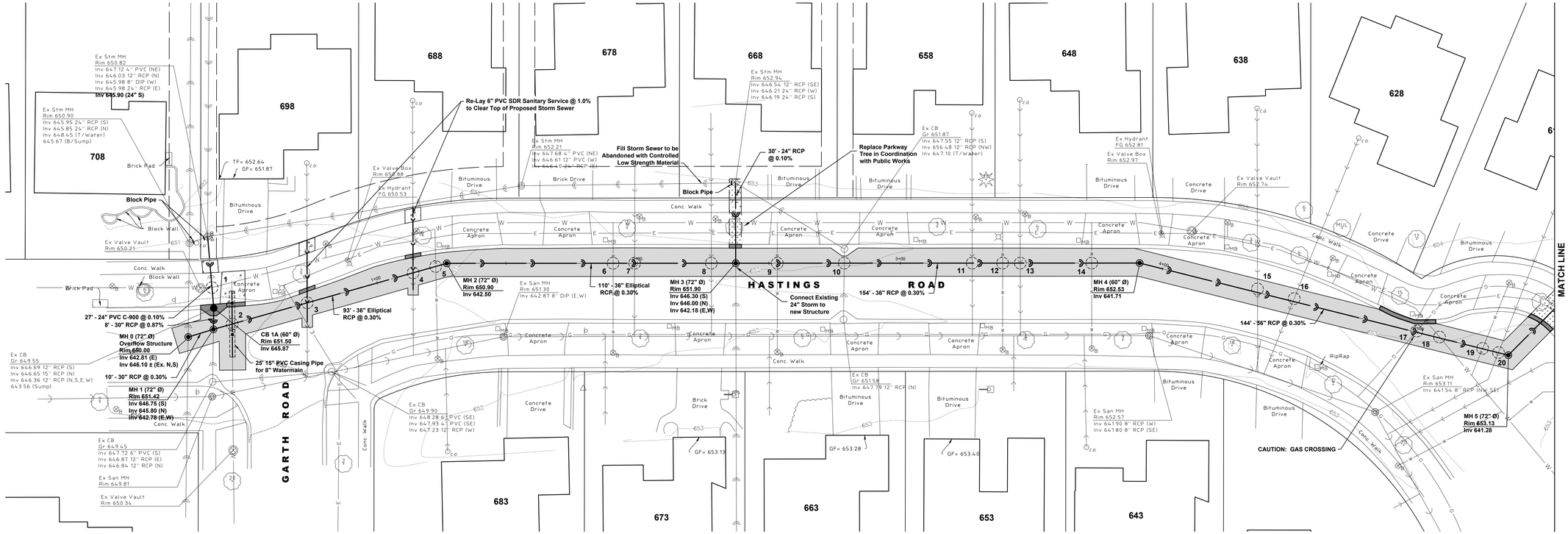


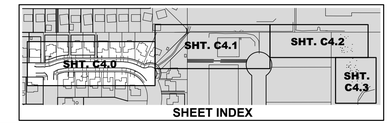
LEGEND

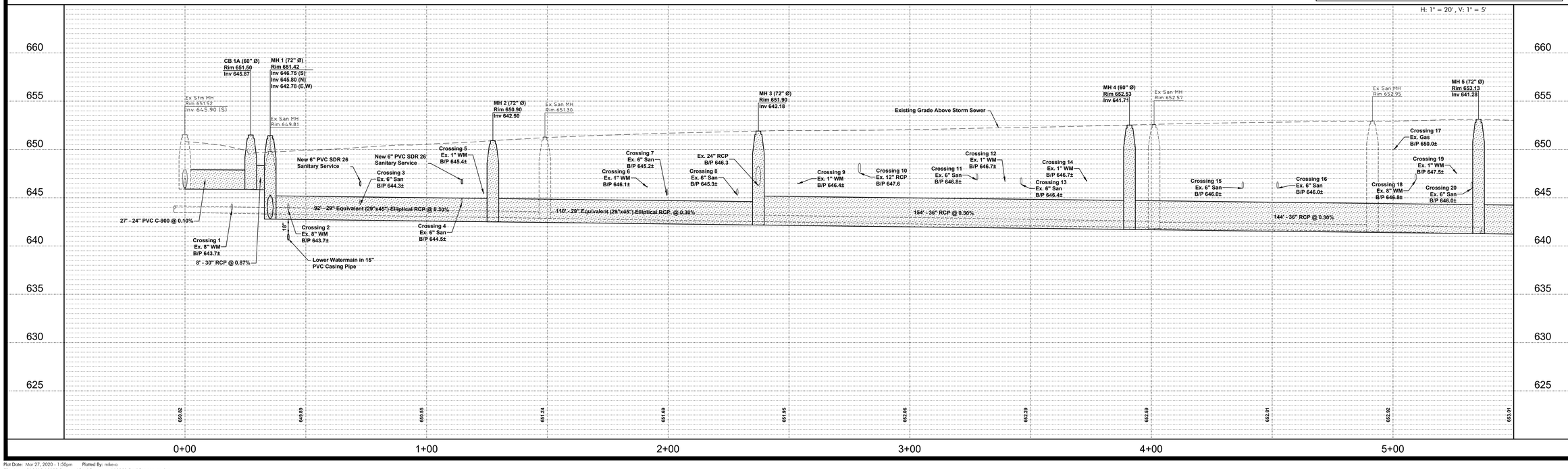
BITUMINOUS ROADWAY PAVEMENT - FULL DEPTH
- See "Watermain Trench Detail"

CONCRETE SIDEWALK
- See Village of Wheeling "Public Sidewalk" Detail

LANDSCAPE RESTORATION - STANDARD
- Topsoil & Sod within Right-of-Way
- Topsoil, IDOT Class 1 Seed & Blanket outside of Right-of-Way unless noted otherwise
- Restoration Width shall not exceed 10-ft unless shown otherwise, disturbed areas beyond 10-ft width to be restored at contractor's expense.

CURB & GUTTER TO BE REMOVED / REPLACED





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PLAN AND PROFILE
STA. 0+00 TO STA. 5+50
EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03.26.2020
Project No.	18-253
Sheet	C4.0 / C5

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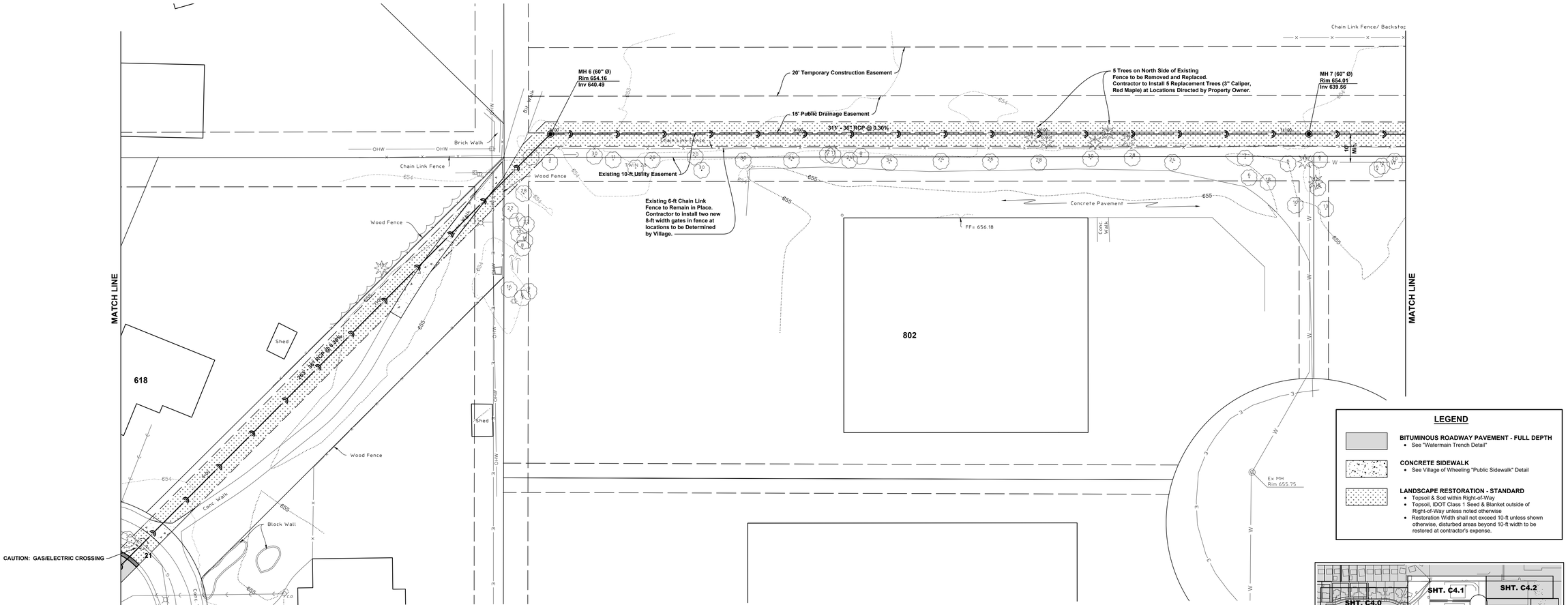

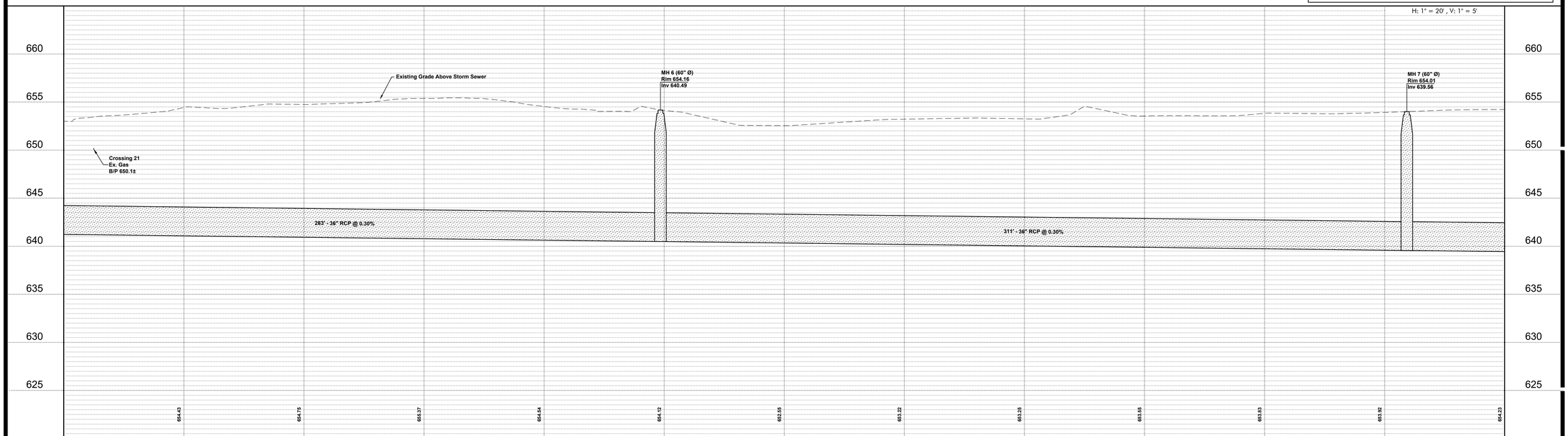

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PLAN AND PROFILE STA. 5+50 TO STA. 11+50

EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS

VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03.26.2020
Project No. 18-253
Sheet C4.1 / C5

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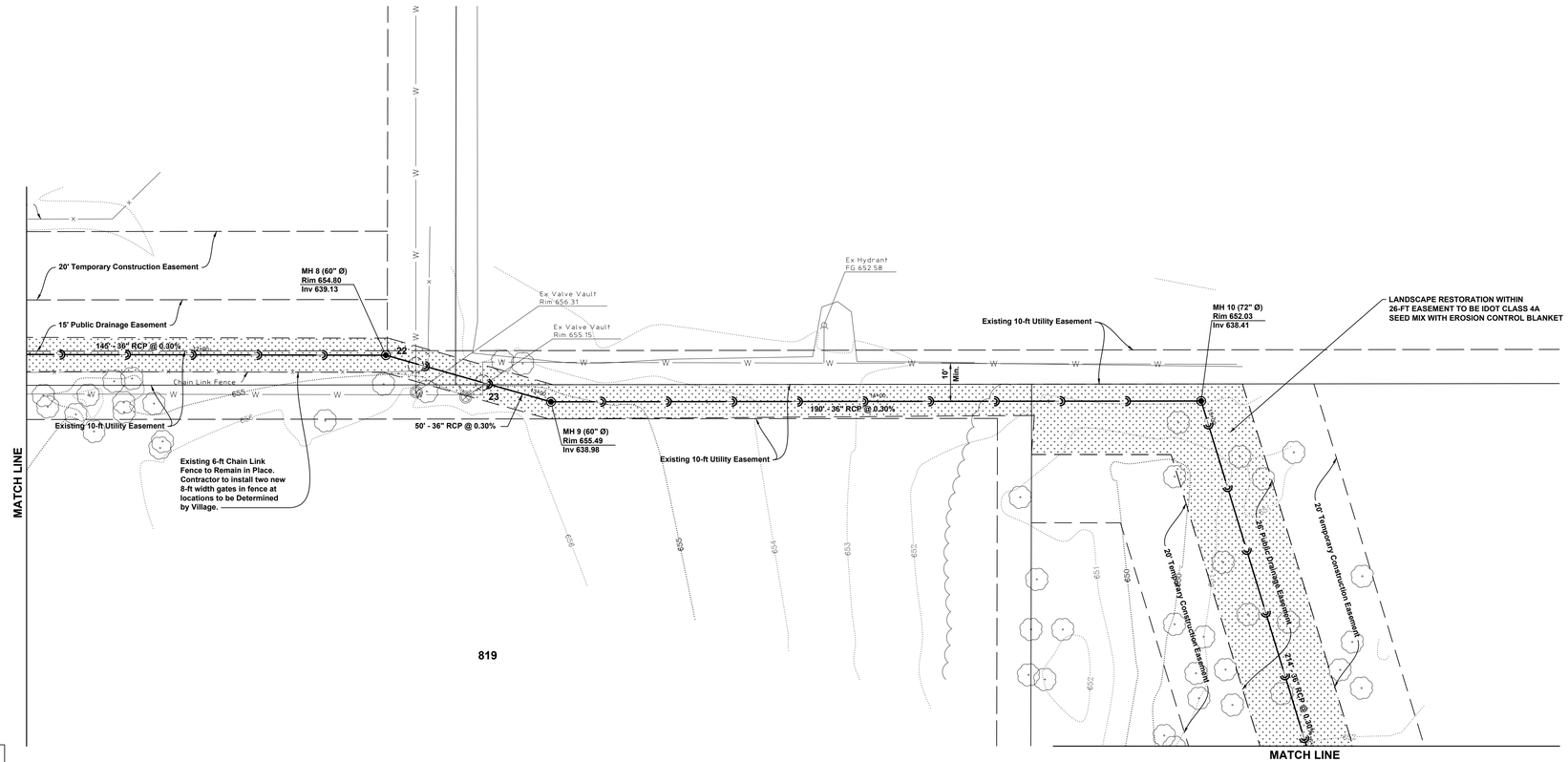


CROSSING TABLE

Crossing: 11
Bot of Storm: x
Top of Water: x

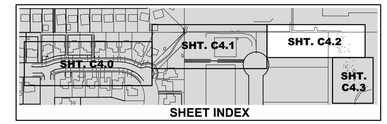
Crossing: 12
Bot of Storm: x
Top of Water: x

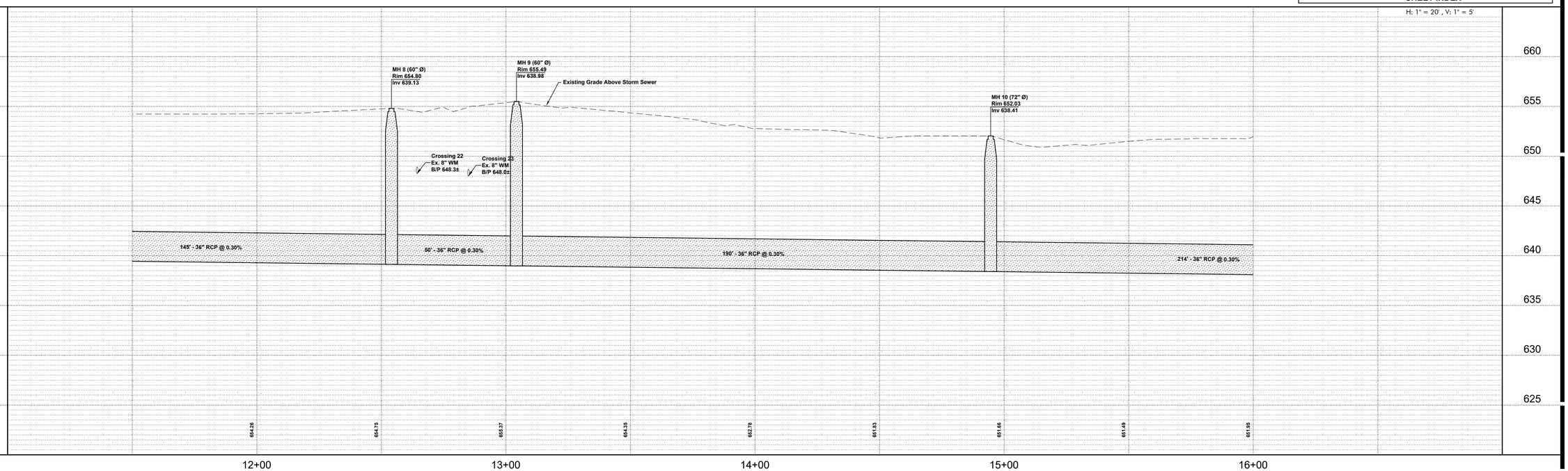
LEGEND

BITUMINOUS ROADWAY PAVEMENT - FULL DEPTH
- See "Watermain Trench Detail"

CONCRETE SIDEWALK
- See Village of Wheeling "Public Sidewalk" Detail

LANDSCAPE RESTORATION - STANDARD
- Topsoil & Sod within Right-of-Way
- Topsoil, IDOT Class 1 Seed & Blanket outside of Right-of-Way unless noted otherwise
- Restoration Width shall not exceed 10-ft unless shown otherwise, disturbed areas beyond 10-ft width to be restored at contractor's expense.





NORTH
5 0 20
Scale: 1" = 20'

No.	Revision	Date

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PLAN AND PROFILE
STA. 11+50 TO STA. 16+00
EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03.26.2020
Project No. 18-253
Sheet C4.2 / C5

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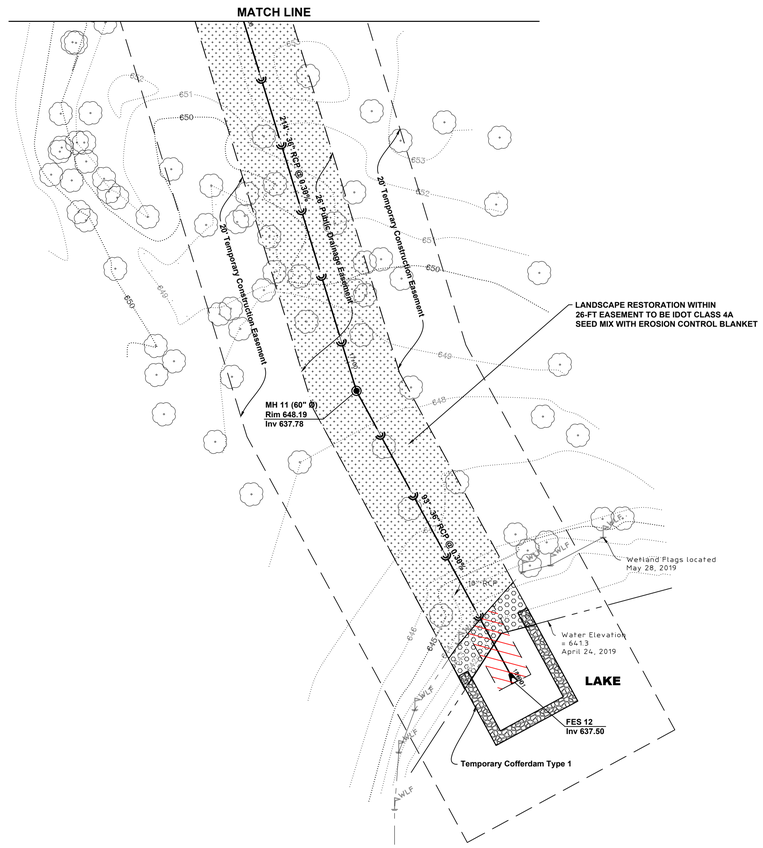
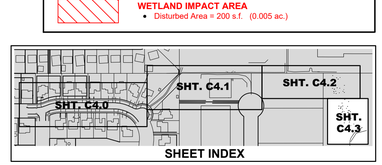




LEGEND

BITUMINOUS ROADWAY PAVEMENT - FULL DEPTH
- See "Watermain Trench Detail"

CONCRETE SIDEWALK
- See Village of Wheeling "Public Sidewalk" Detail

LANDSCAPE RESTORATION - STANDARD
- Topsoil & Sod within Right-of-Way
- Topsoil, IDOT Class 1 Seed & Blanket outside of Right-of-Way unless noted otherwise
- Restoration Width shall not exceed 10-ft unless shown otherwise, disturbed areas beyond 10-ft width to be restored at contractor's expense.

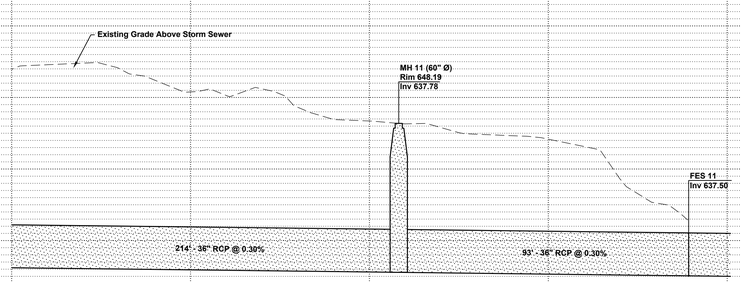
LANDSCAPE RESTORATION - NATIVE SEEDING
- Restoration with Short Grass Prairie Mixture Seeding
- Topsoil with Erosion Control Blanket

WETLAND IMPACT AREA
- Disturbed Area = 200 s.f. (0.005 ac.)

NORTH

5 0 20

Scale: 1" = 20'



H: 1" = 20', V: 1" = 5'

No.	Revision	Date

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PLAN AND PROFILE
STA. 16+00 TO STA. 18+00
EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03.26.2020
Project No.	18-253
Sheet	C4.3 / C5

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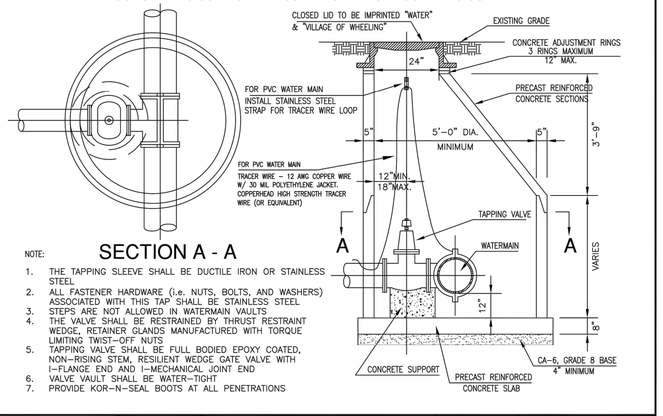
CONCENTRIC CONE CAN BE USED INSTEAD OF ECCENTRIC CONE



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

T:\Engineering\Standards\WHEEL.dwg

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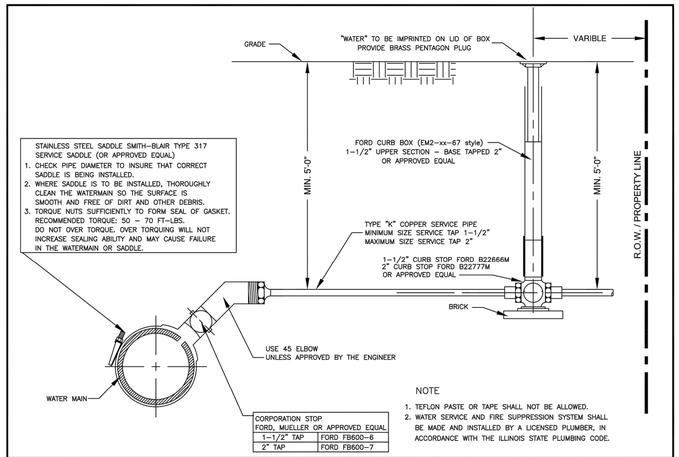
VALVE & TAPPING VAULT STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS		REVISIONS	DETAIL NO.
	S.W.	4-12-00 AUTOCAD FILE	W-4
FILE LOCATION	C.C.	03-07-07 PER COMMENTS	
T:\ENGINEERING\STANDARDS	S.W.	08-15-08 CONCENTRIC CONE	
	K.A.G.	01-03-18 TRACER WIRE	



CORPORATION STOP FORD, MUELLER OR APPROVED EQUAL	
1-1/2" TAP	FORD FB600-6
2" TAP	FORD FB600-7

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 ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELINGIL.GOV

TYPICAL SERVICE TAP STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS		REVISIONS	DETAIL NO.
	S.W.	5-13-08 PER COMMENTS	W-6
FILE LOCATION	K.R.G.	9-11-06 AUTOCAD FILE	
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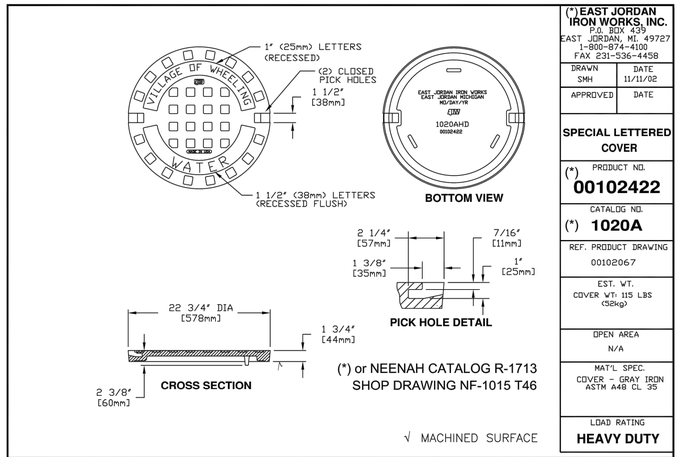
	K.A.G.	12-11-18 TAPPING SLEEVE	



(*) 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

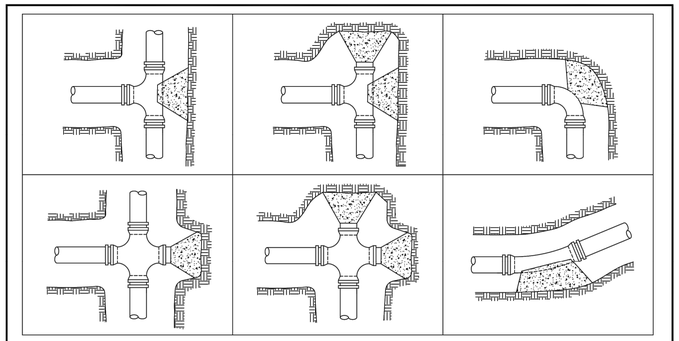
MAT'L SPEC.
COVER - GRAY IRON ASTM A48 CL 35

LOAD RATING
HEAVY DUTY

VILLAGE OF WHEELING 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.
	S.W.	2-24-06 AUTOCAD FILE	W-7
FILE LOCATION	S.W.	9-19-01 PER COMMENTS	
T:\ENGINEERING\STANDARDS	S.W.	11-12-02 WRIDES PHASE II	
	S.W.	02-07-03 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.

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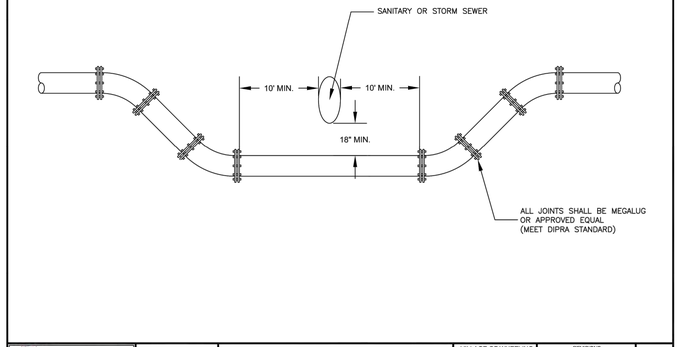
THRUST BLOCK STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS		REVISIONS	DETAIL NO.
	S.W.	4-27-00 AUTOCAD FILE	W-8
FILE LOCATION	K.R.G.	9-11-06 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	T.W.M.	3-18-14 CONCRETE CLASS	



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WATER MAIN DEPRESSION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS		REVISIONS	DETAIL NO.
	S.W.	5-30-00 AUTO-CAD FILE	W-9
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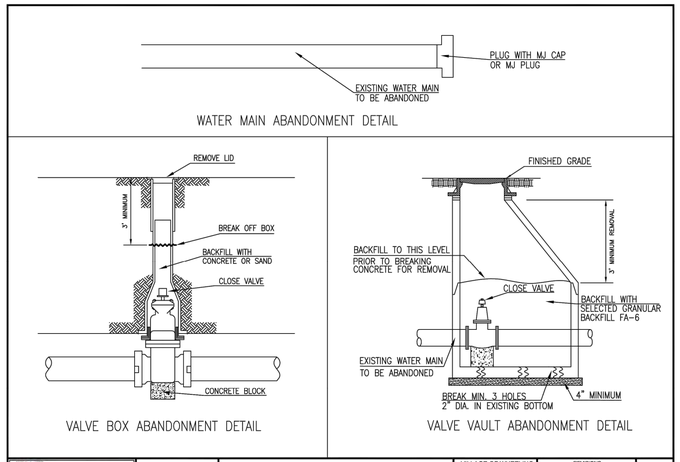
T:\ENGINEERING\STANDARDS	C.J.C.	01-20-08 AUTOCAD FILE	



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.
			W-11
FILE LOCATION			
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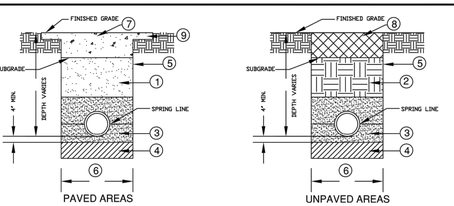

NOTES:

1. BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE B OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, AND SIDEWALK.
2. EXCAVATED MATERIAL MAY BE USED UP TO FINAL GRADE IN NON-PAVED AREAS
3. GRAD. NO. CA-7, 8, 11 OR 13 GRAVEL OR LIMESTONE, TO SPRING LINE FOR RIGID PIPE OR 12" ABOVE TOP OF PVC PIPE METHOD 1 COMPACTION PER I.D.O.T. ARTICLE 550.07
4. IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH 4" OF STONE AS DIRECTED BY THE TESTING AGENCY OR THE VILLAGE ENGINEER
5. TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
6. MAXIMUM PAYABLE TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET
   = 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET
7. STREET CROSS SECTION MUST MATCH THE EXISTING ROADWAY OR THE VILLAGE OF WHEELING TYPICAL STREET CROSS SECTION. WHICHEVER IS GREATER.
   VILLAGE OF WHEELING TYPICAL STREET CROSS SECTIONS ARE OUTLINED BELOW:

ARTERIAL ROADWAY	LOCAL ROADWAY
-6" AGGREGATE BASE COURSE, CA-6 GRADE B OR 9 VIRGIN STONE	-6" AGGREGATE BASE COURSE, CA-6 GRADE B OR 9 VIRGIN STONE
-8" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)	-5" HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50. (COMPACTED IN LIFTS)
-0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT	-0.05 GAL/SY BITUMINOUS MATERIAL PRIME COAT
-2" HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50.	-2" HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50.

8. 6" OF COMPACTED TOP SOIL
9. SAW CUT BACK 12" FROM TRENCH LIMITS TO PROVIDE CONTINUOUS BUTT JOINT PRIOR TO PAVING.

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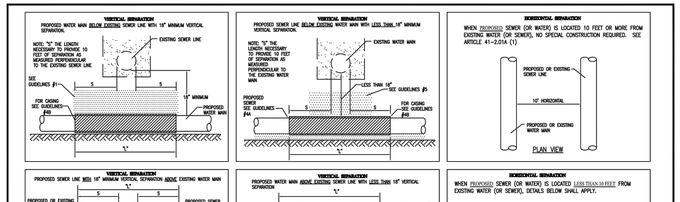
TRENCH BACKFILL STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS		REVISIONS	DETAIL NO.
	S.W.	11-19-04 NO POLY WRAP	UTL-1
	C.J.C.	01-29-08 AUTOCAD FILE	
FILE LOCATION	K.A.G.	03-07-17 STREET SECTIONS	
T:\ENGINEERING\STANDARDS	K.A.G.	5-08-18 BACKFILL MATERIAL	
	K.A.G.	1-21-20 ADDED NOTE 9	



VERTICAL SEPARATION GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS 1C) 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 1C) 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 1C) 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 1C) 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.
	S.W.	2-6-06 AUTOCAD FILE	UTL-4
FILE LOCATION	K.R.G.	9-11-06 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.A.G.	11-07-16 AUTOCAD FILE	

No.	Revision	Date

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STANDARD DETAILS

EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS

VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03.26.2020
Project No. 18-253
Sheet **C5.0** / C5

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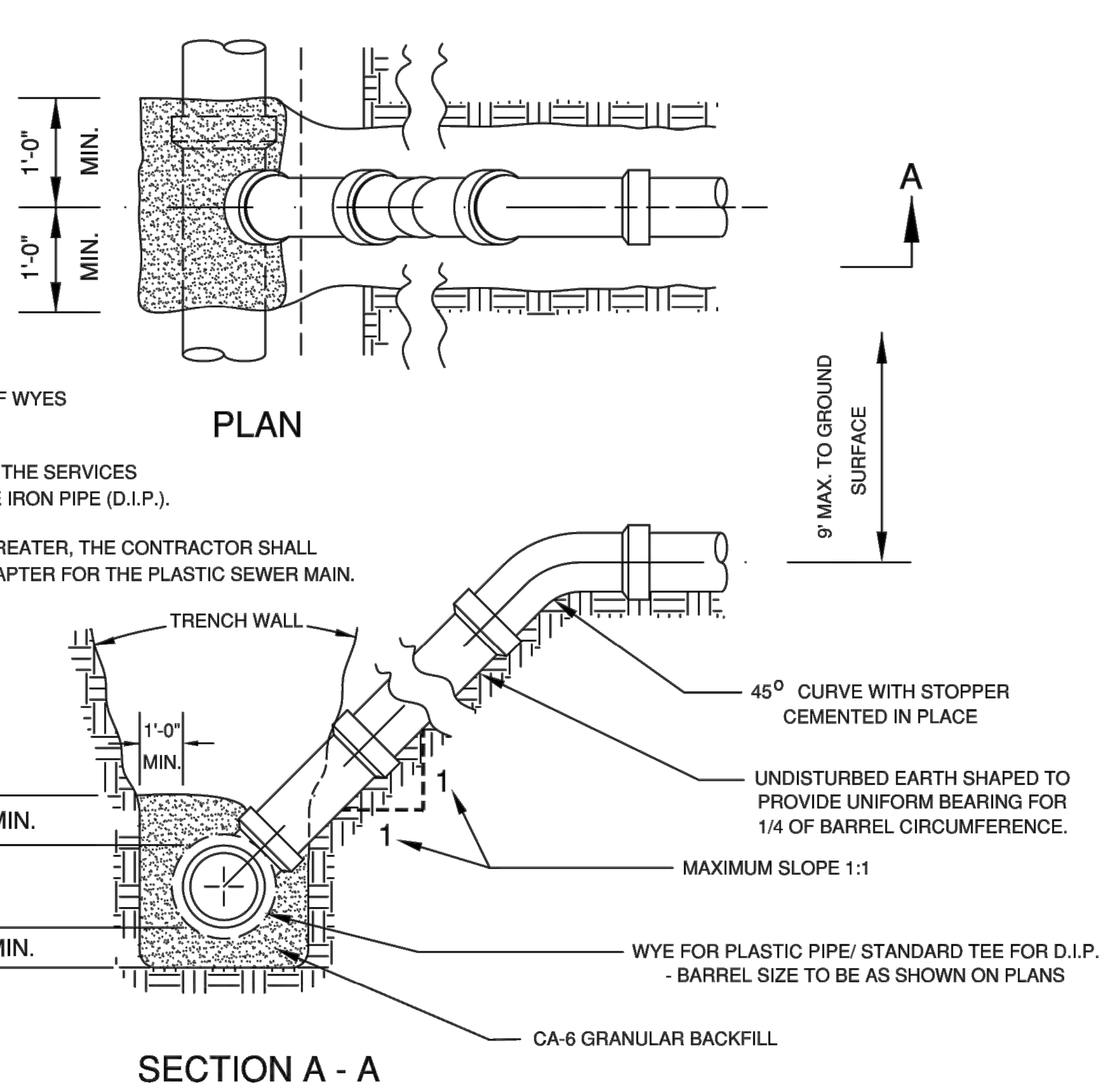
SANITARY SERVICE RISER STANDARD (SAN-5)



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.

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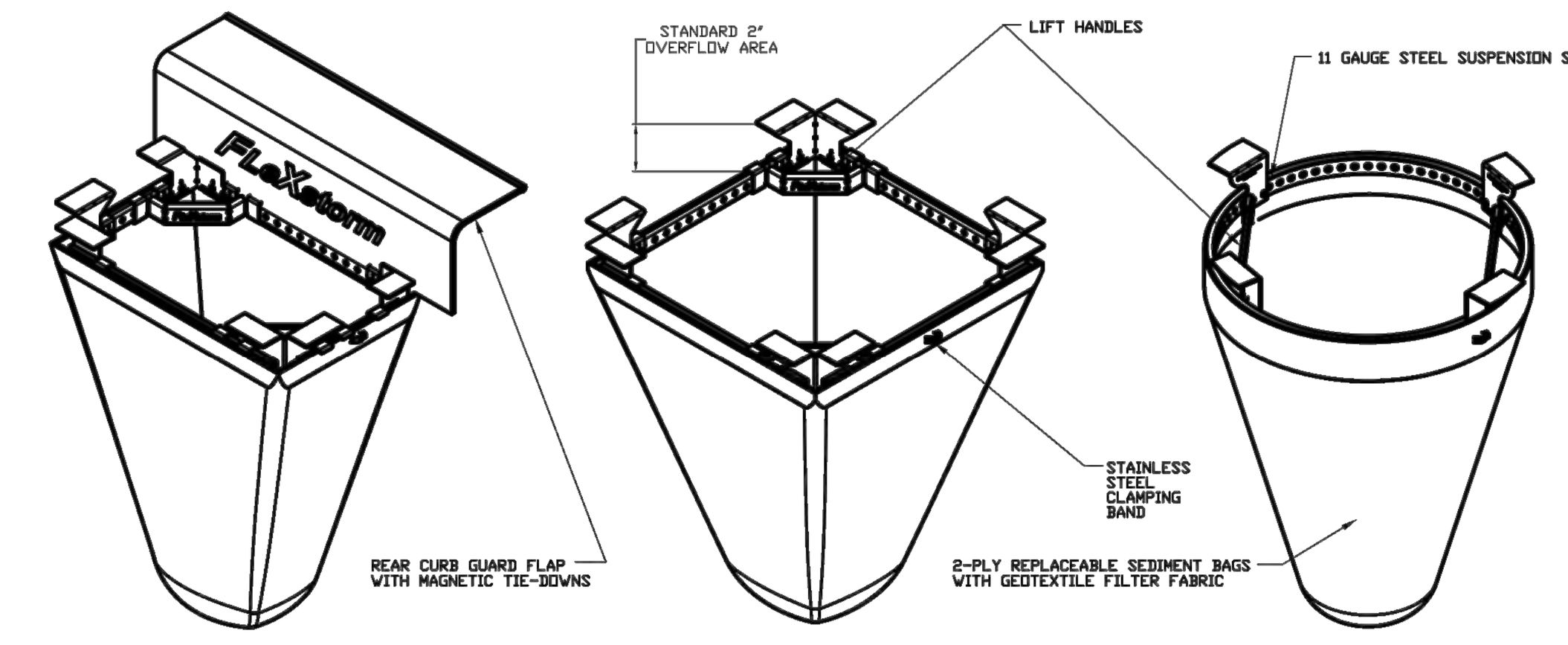
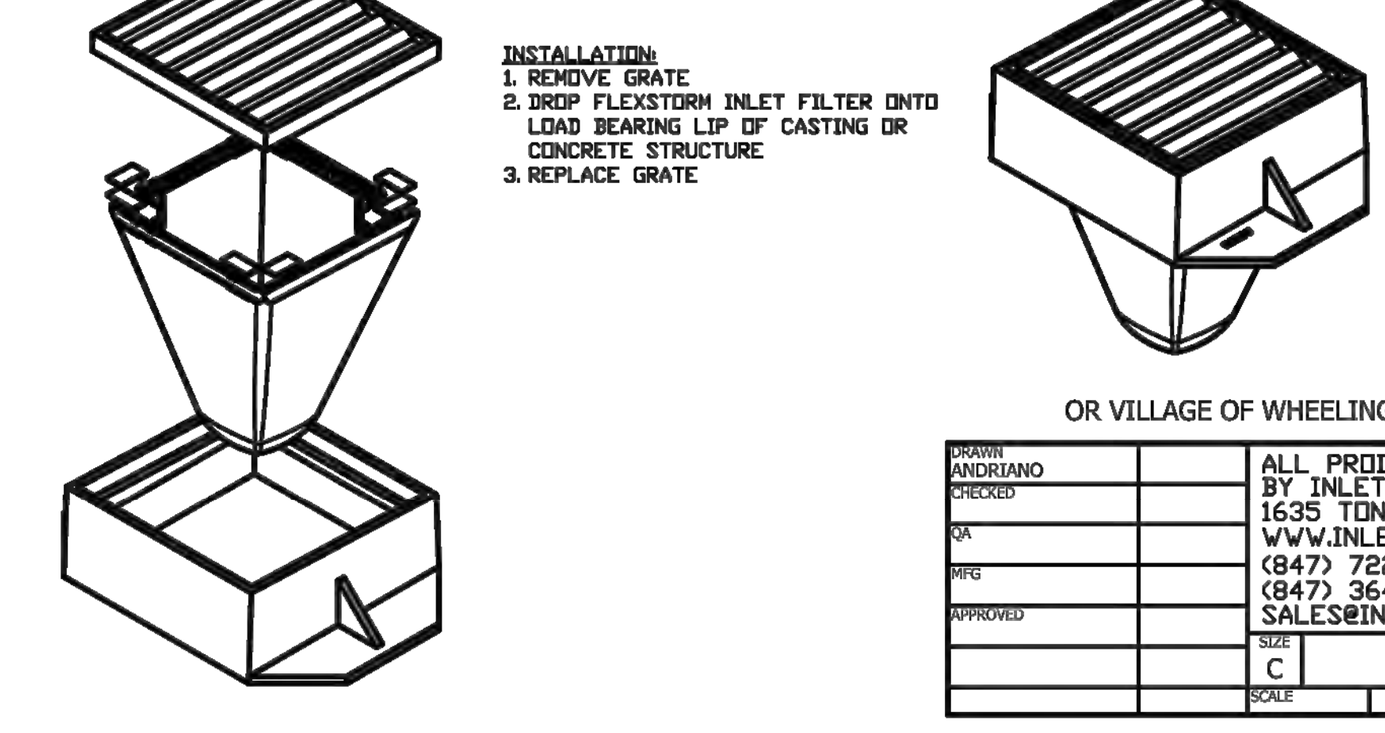
SANITARY SERVICE RISER STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	9-8-00 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	C.J.C.	11-27-07 AUTOCAD FILE	SAN-5

INLET AND FILTER PROTECTION STANDARD (ERO-1)



IPP FLeXstorm Inlet Filter Specifications			
Material Property	Test Method	Value (min ave)	
> Inner Filter Bag Specs (2 ft³ min vol)		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%
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0 /sec	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft	145 gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%	
Thickness	ASTM D 1777	.040 +/- .005	
> Frame Construction			
A36 Structural Steel 11 Guage, Zinc Plated	ASTM A 576	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

DRAWN ANDRIANO		ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC 1635 TONNE RD ELK GROVE, IL WWW.INLETFILTERS.COM (847) 722-0690 PH (847) 364-5262 FX SALES@INLETFILTERS.COM
CHECKED		
QA		
MFG		
APPROVED		SIZE C / DWG NO IPP_FLEXSTORM_SPECS / REV
		SCALE / SHEET 1 OF 1

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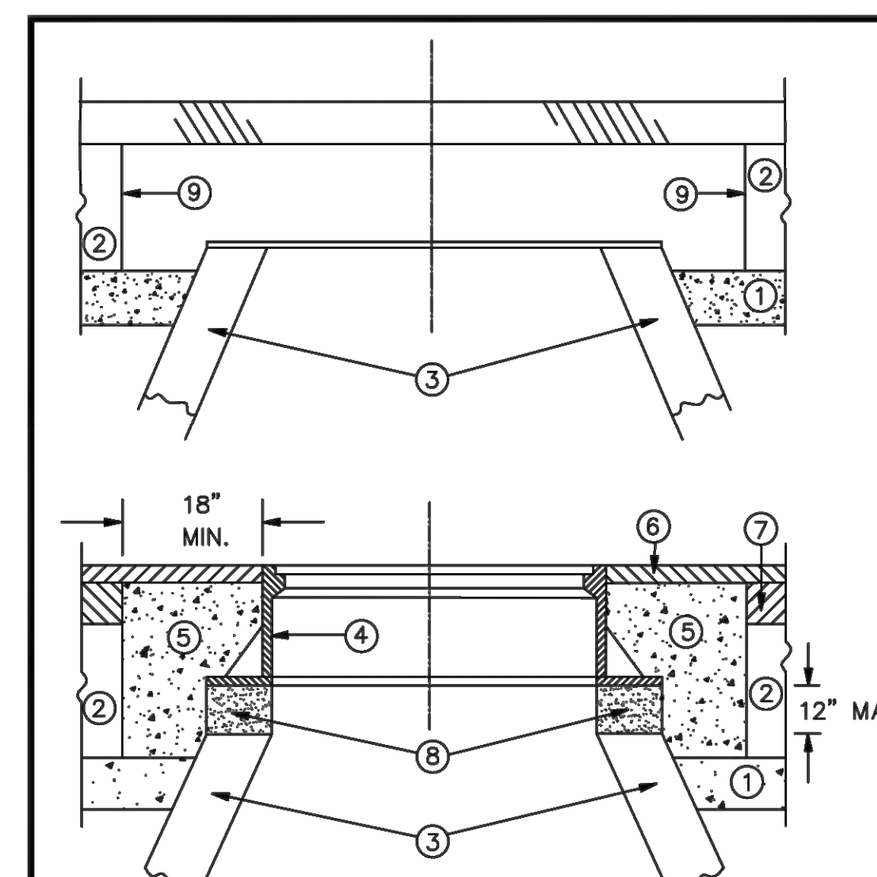
INLET AND FILTER PROTECTION STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	01-30-03 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	C.J.C.	11-27-07 AUTOCAD FILE	ERO-1

FRAME AND LID ADJUSTMENT WITH CONCRETE COLLAR (UTL-7)



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
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VILLAGE OF WHEELING ILLINOIS
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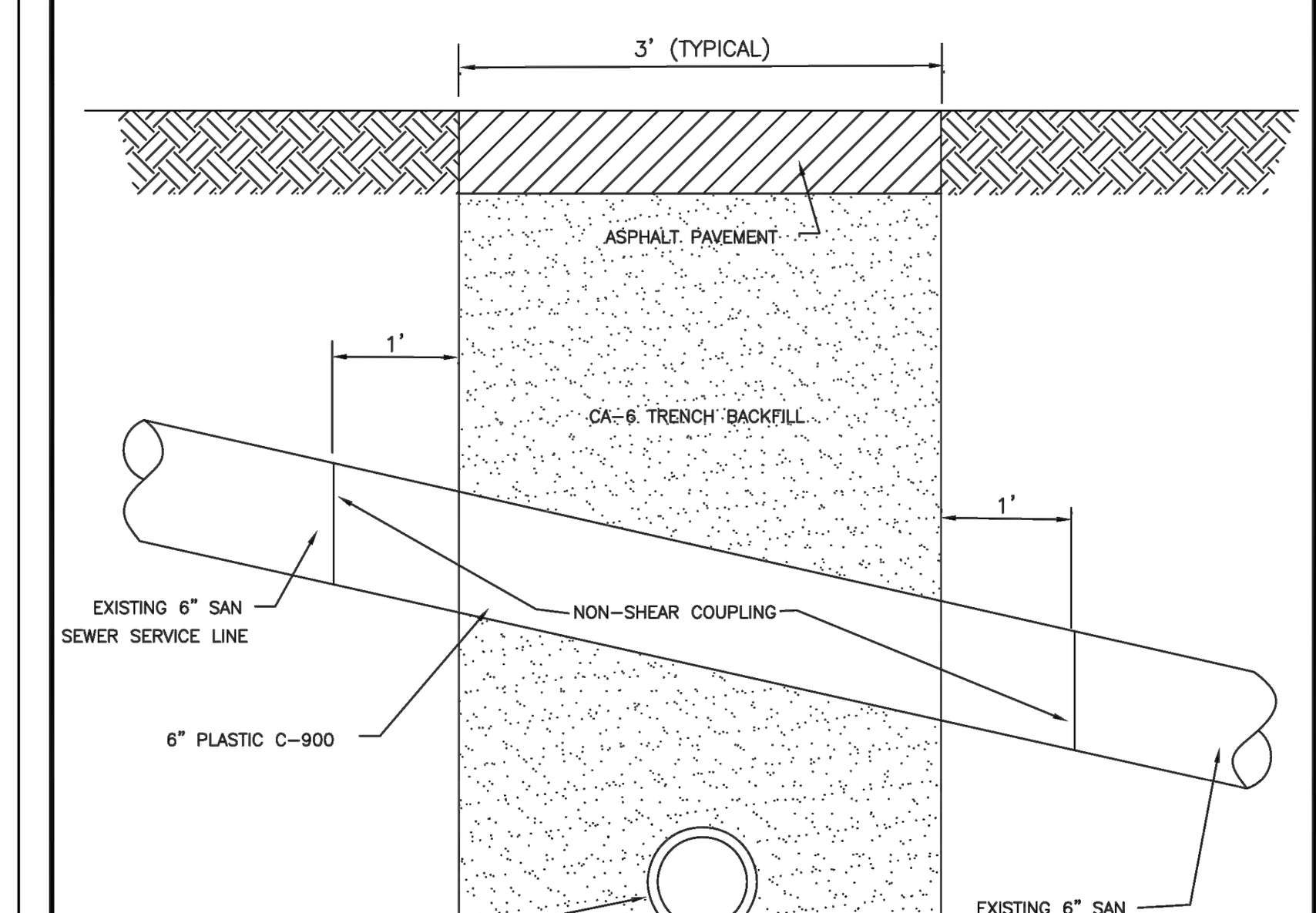
FRAME AND LID ADJUSTMENT WITH CONCRETE COLLAR

REVISIONS | DETAIL NO. UTL-7

6" SANITARY SEWER SERVICE LINE REPAIR DETAIL (SAN-7)



VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS
FILE LOCATION
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VILLAGE OF WHEELING ILLINOIS
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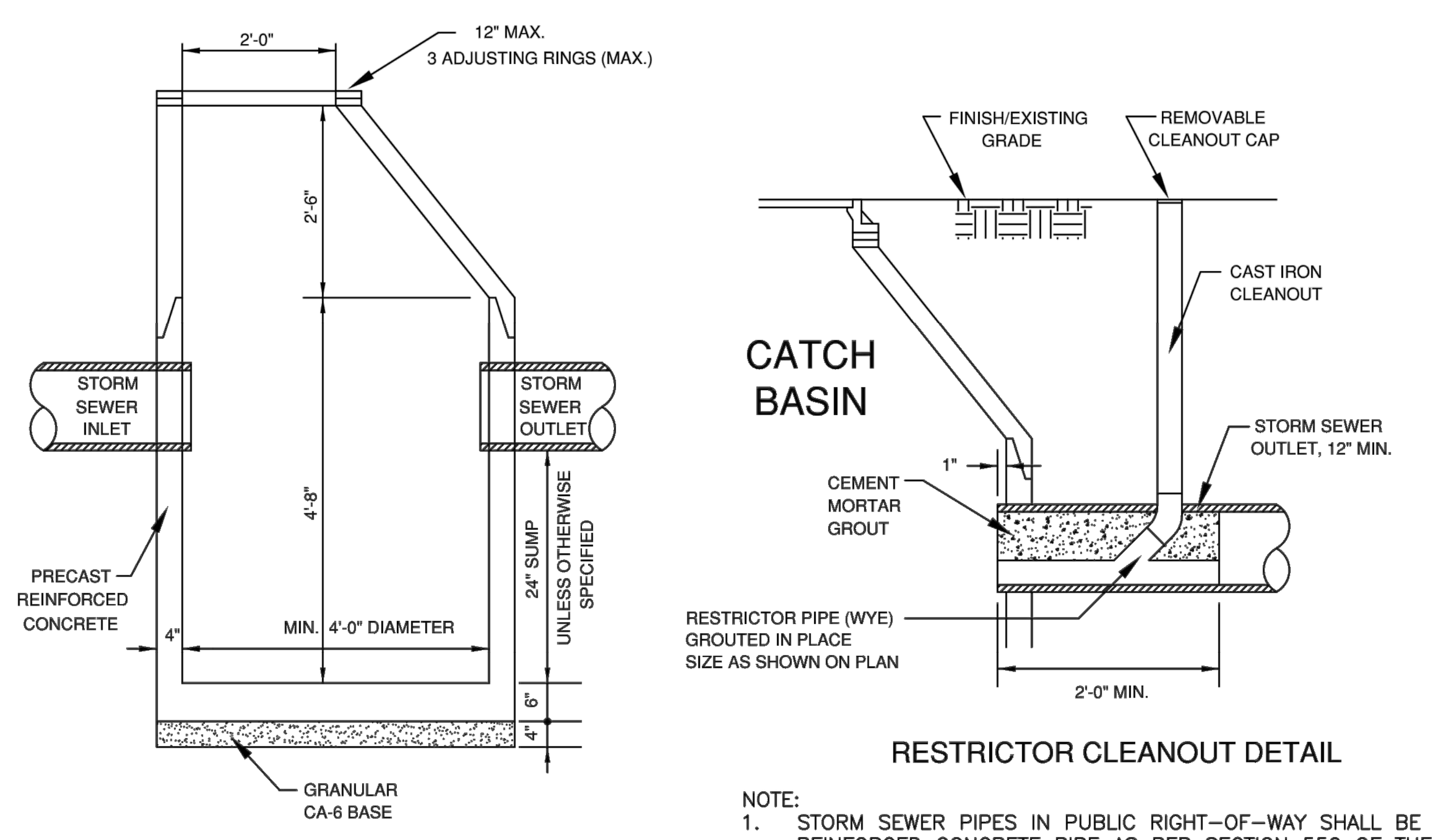
6" SANITARY SEWER SERVICE LINE REPAIR DETAIL

REVISIONS | DETAIL NO. SAN-7

CATCH BASIN & RESTRICTOR CLEANOUT STANDARD (ST-2)



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 SDR-26, 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. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER

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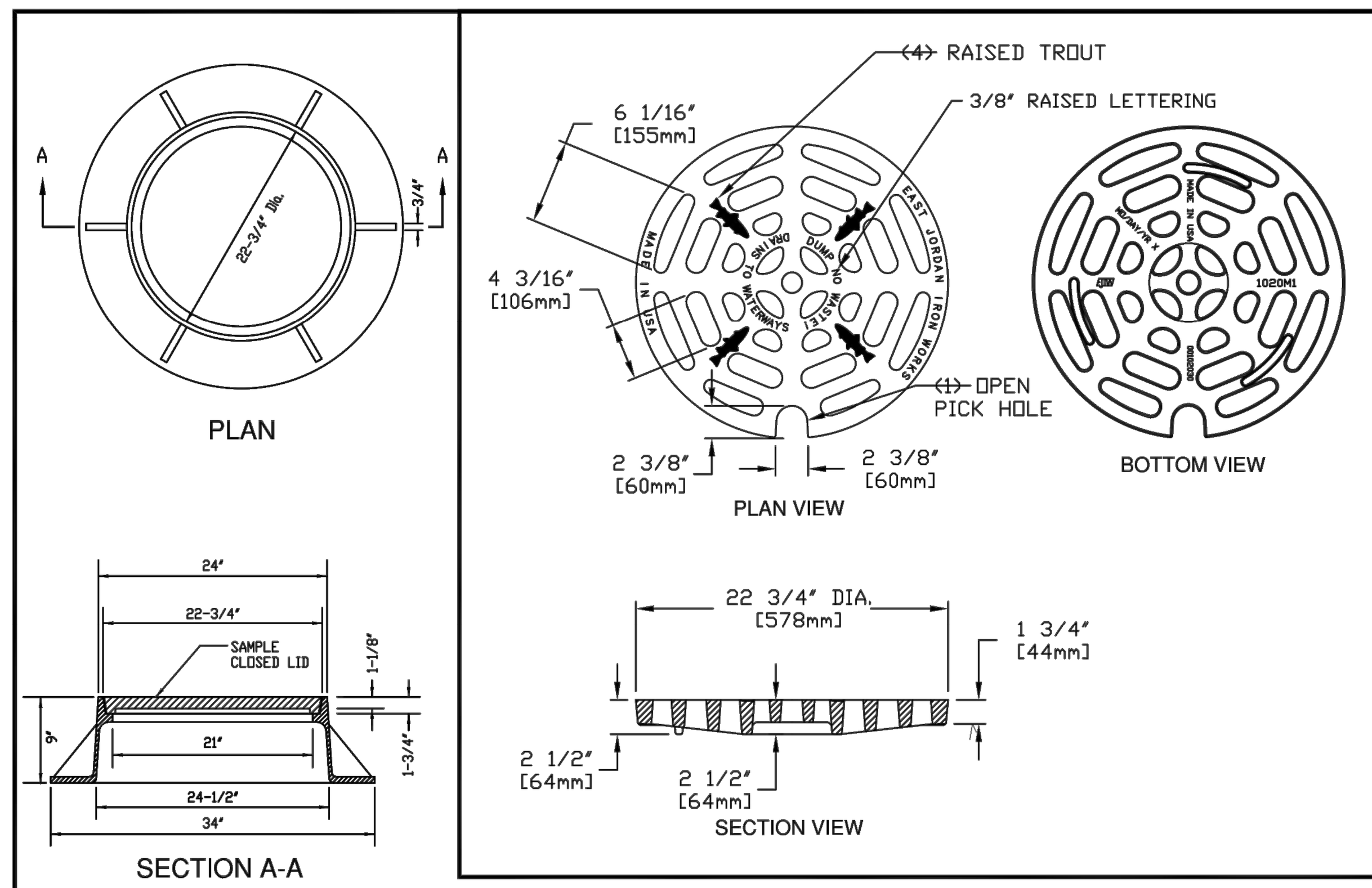
CATCH BASIN & RESTRICTOR CLEANOUT STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	2-29-00 AUTOCAD FILE	
FILE LOCATION	S.W.	2-27-03 PER COMMENTS	
T:\ENGINEERING\STANDARDS	K.R.G.	9-11-06 AUTOCAD FILE	ST-2
	K.A.G.	12-11-18 SUMP DEPTH	

FRAME AND OPEN LID STORM MANHOLE STANDARD (ST-6)



(*) 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

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FRAME AND OPEN LID STORM MANHOLE STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	2-24-00 AUTOCAD FILE	
FILE LOCATION	S.W.	9-19-01 PER COMMENTS	
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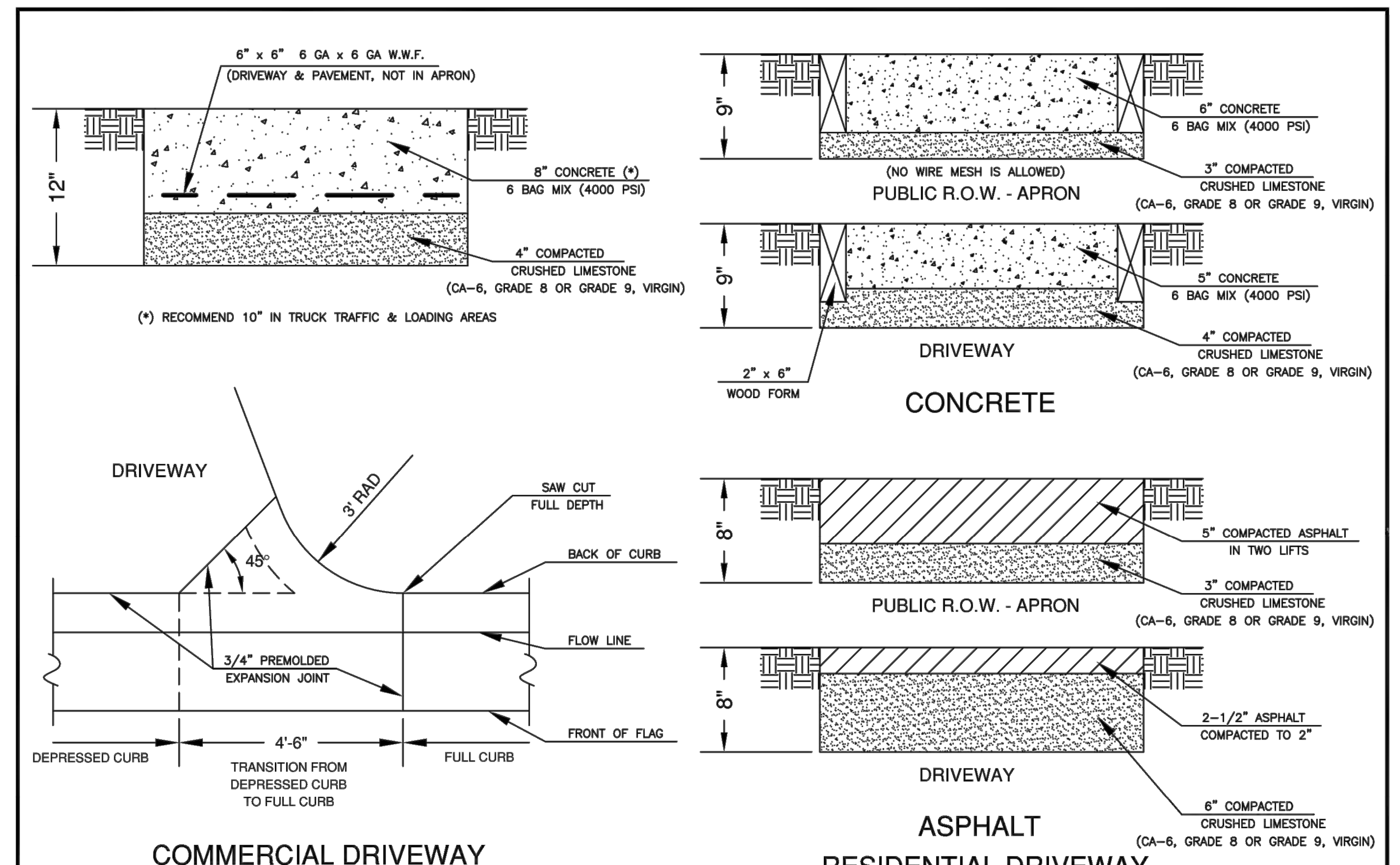
	S.W.	02-07-03 ADDING NEENAH	
	K.R.G.	9-11-06 AUTOCAD FILE	

DRIVEWAY STANDARD (R-1)



SEE V.O.W. PUBLIC SIDEWALK & SIDEWALK RAMP STANDARD

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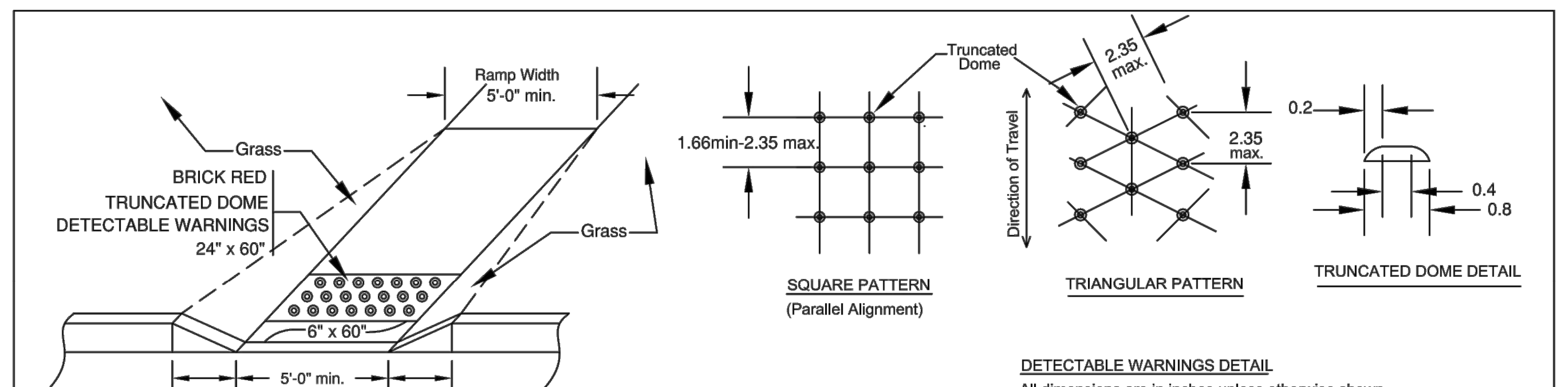
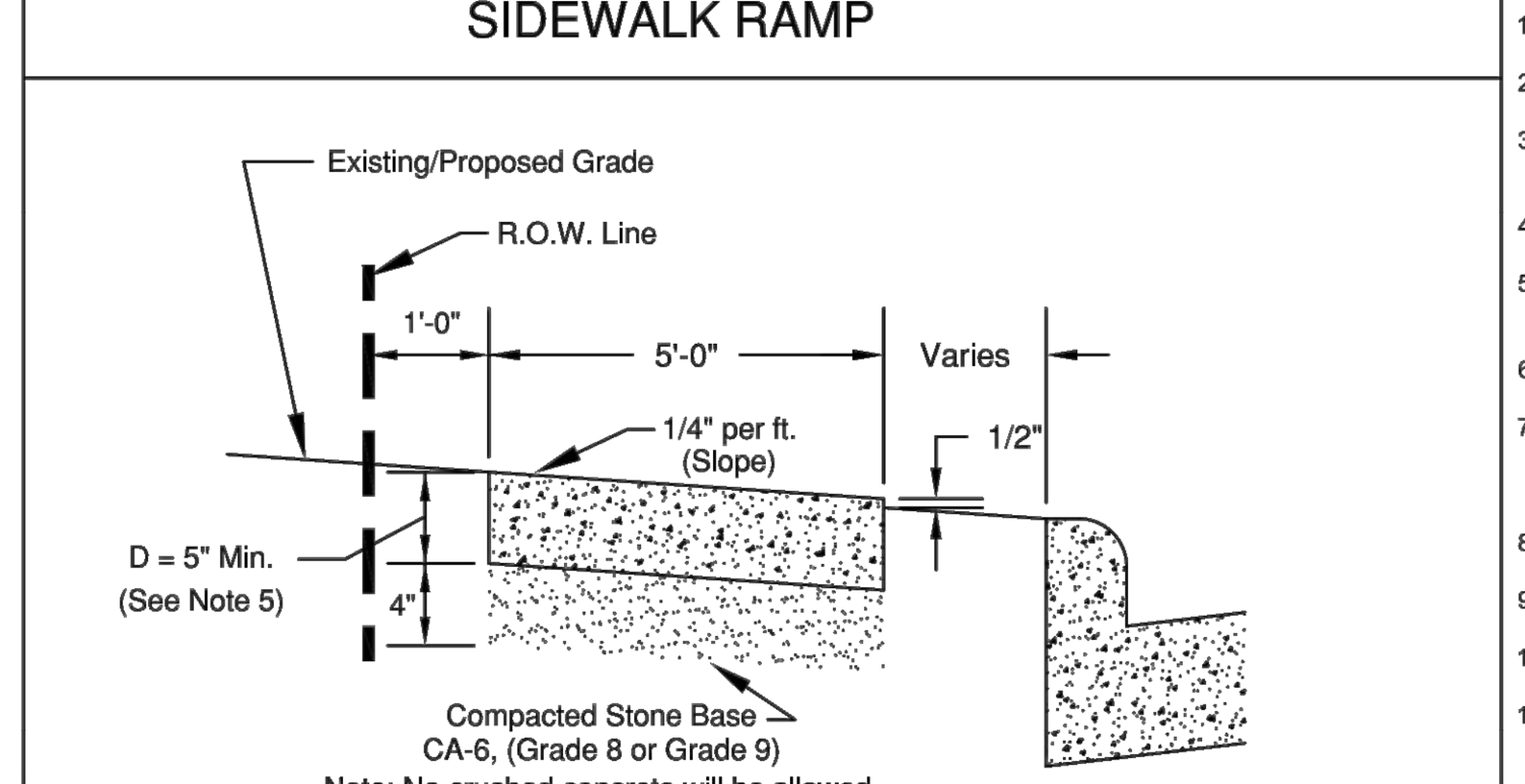
DRIVEWAY STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
	S.W.	02-09-06 REVISED PER RG	
FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	K.R.G.	12-17-08 APRON AGG. THICK	R-1
	K.R.G.	03-29-10 REVISED GRADE 9	

PUBLIC SIDEWALK STANDARD (R-3)



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.

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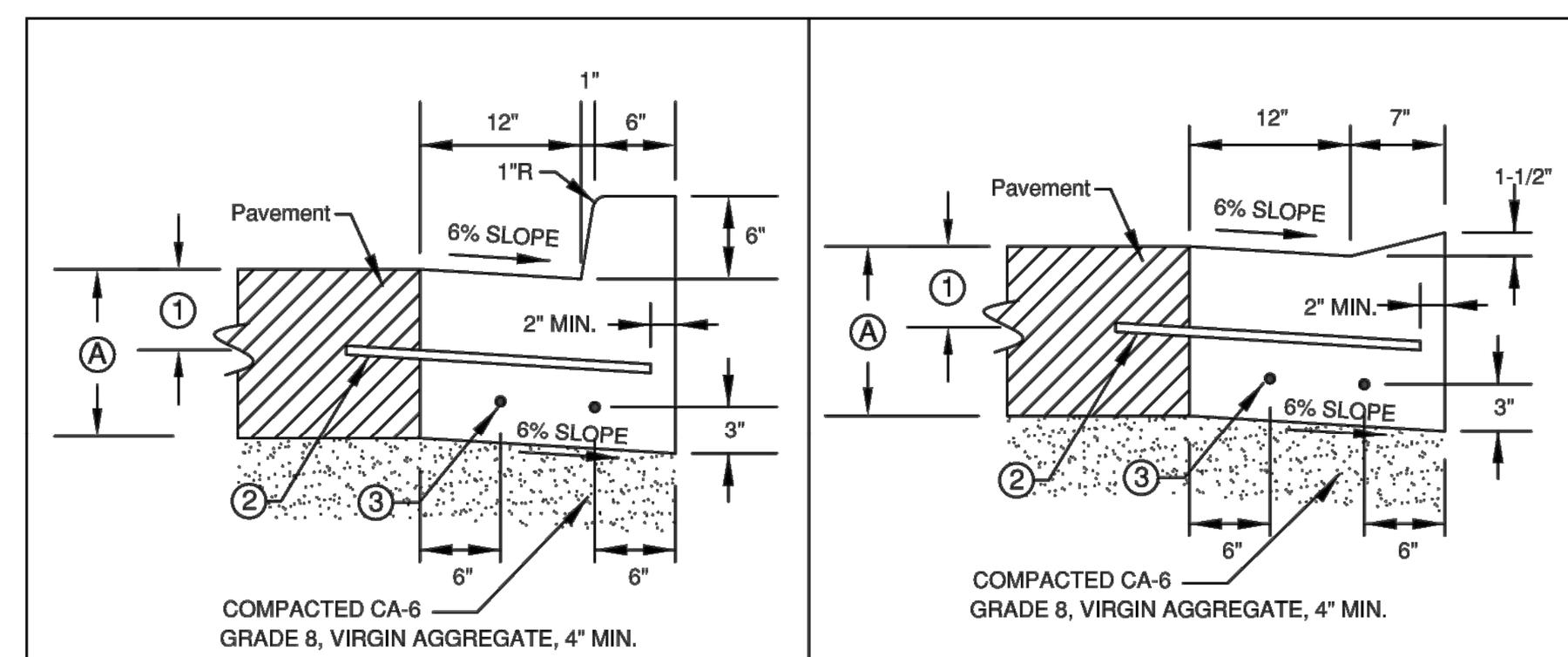
PUBLIC SIDEWALK STANDARD

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.R.	04-04-14 AS PER J.T.	
	K.A.G.	12-21-16 AUTOCAD FILE	

CURB AND GUTTER STANDARD (R-12)



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.

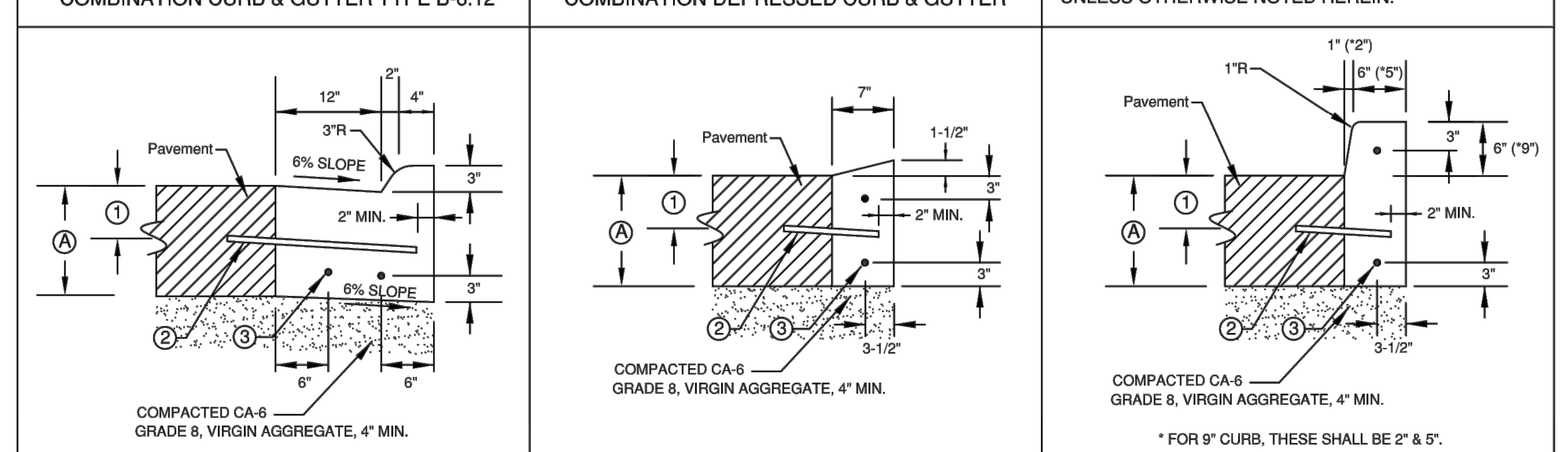
③ 5/8" DIA. STEEL REBAR CONTINUOUS (TYPICAL).

NOTES:

PROVIDE DEPRESSED CURBS AT DRIVEWAYS, CROSSWALKS, AND SIDEWALKS, ETC.

ALL CONCRETE SHALL HAVE 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)	BARRIER CURB (TYPE B)

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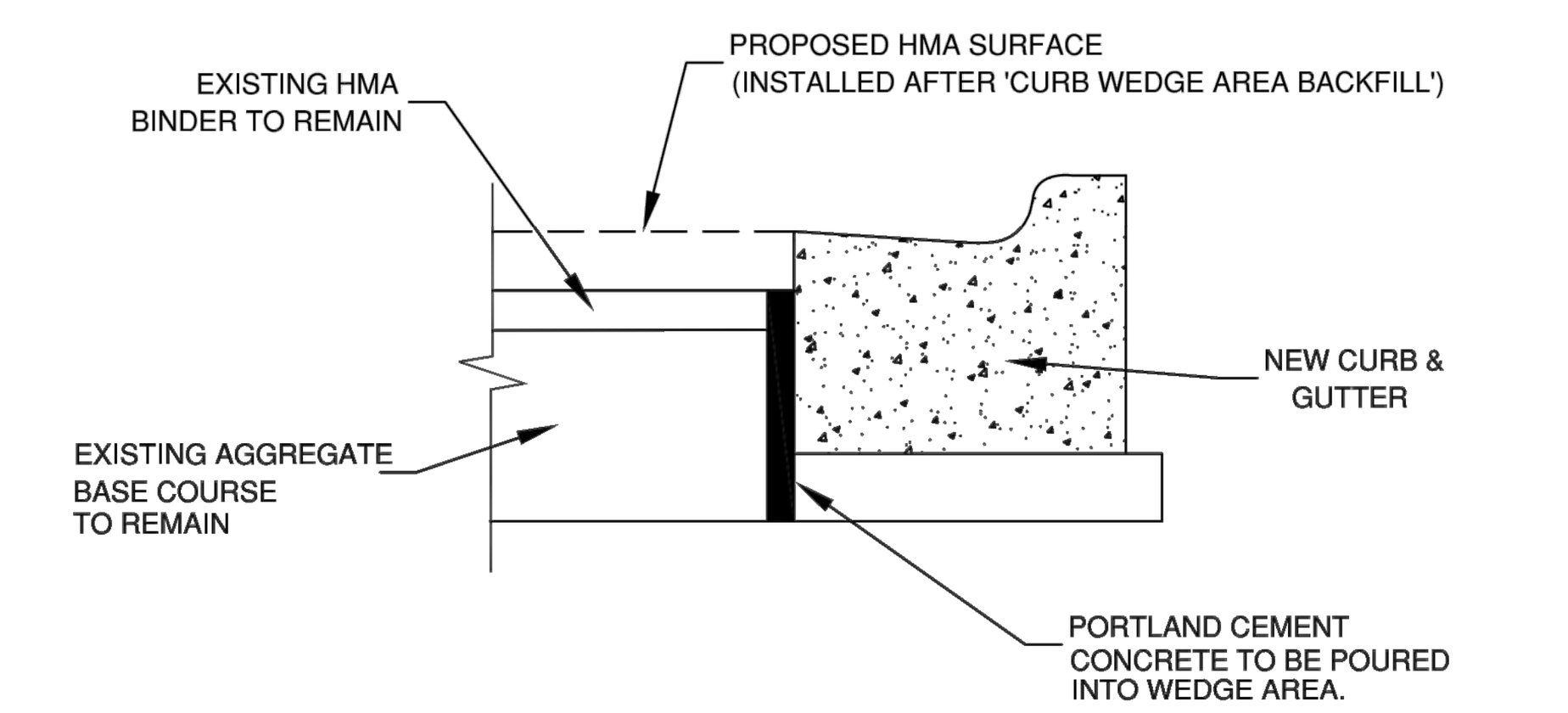
CURB AND GUTTER STANDARD

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	REVISIONS		DETAIL NO.
FILE LOCATION	S.W.	06-16-00 AUTOCAD FILE	
T:\ENGINEERING\STANDARDS	C.J.C.	11-27-07 AUTOCAD FILE	R-12
	K.A.G	11-21-16 AUTOCAD FILE	

CURB WEDGE AREA BACKFILL DETAIL (R-20)



NOTE:
1. THIS WORK SHALL ONLY BE PROVIDED IN AREAS WHERE EXISTING BITUMINOUS PAVEMENT (SURFACE, BINDER, OR BASE) IS TO REMAIN ADJACENT TO A LOCATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT.
2. 'GAP' OR 'WEDGE' AREA WILL OCCUR BETWEEN EXISTING EDGE OF PAVEMENT AND NEW GUTTER FLAG.
3. PORTLAND CEMENT CONCRETE SHALL BE POURED WITHIN THE 'WEDGE' AREA UP TO THE TOP OF THE FINAL DESIGN BINDER COURSE ELEVATION THAT WILL ALLOW FOR UNIFORM PLACEMENT OF 2" HMA SURFACE COURSE.

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CURB WEDGE AREA BACKFILL DETAIL

VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS / FILE LOCATION / T:\ENGINEERING\STANDARDS | REVISIONS | DETAIL NO. R-20

No.	Date	Revision

HAEGER ENGINEERING
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100 East State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003152
www.haegerengineering.com

STANDARD DETAILS

EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager:	M L A
Engineer:	J D L
Date:	03.26.2020
Project No.	18-253
Sheet	C5.1 / C5

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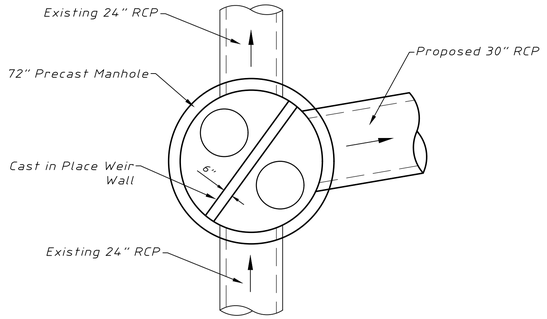
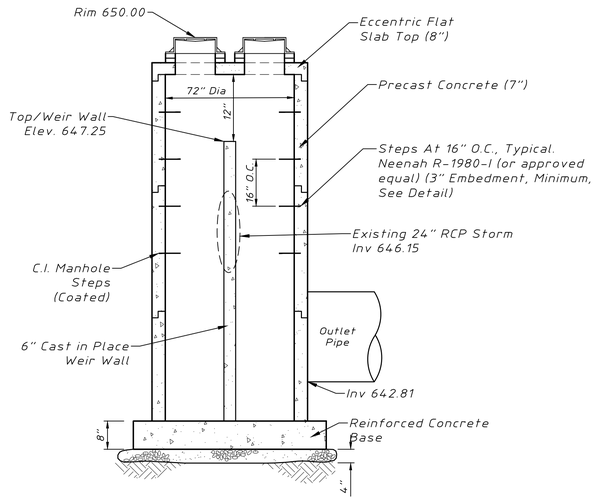
Plot Date: Mar 27, 2020 - 1:50pm Plotted By: mike-a
File Name: P:\2018\18253\Drawings\Final Engineering\18253-Final Engineering.dwg

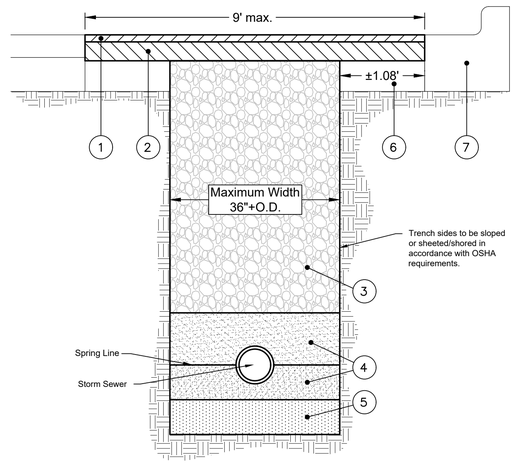


PLAN VIEW
Not to Scale



PROFILE VIEW
Not to Scale

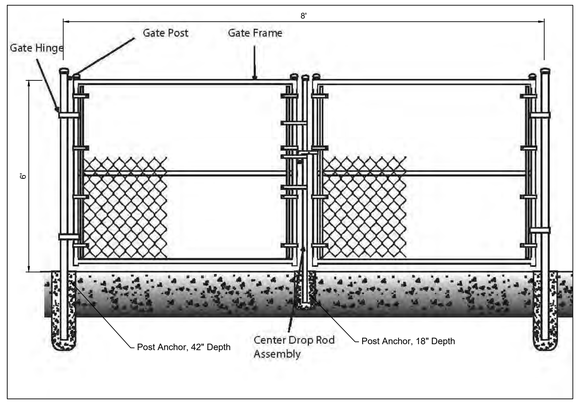
OVERFLOW STRUCTURE DETAIL (MH 0)



1. 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'D', N50
2. 3" Hot-Mix Asphalt (HMA) Binder Course, Mix 'D', IL-19.0, N50
3. Compacted Trench Backfill (CA-6, Grade 8 or approved equal). Also required under sidewalks, driveways, curb & gutter, or other paved areas. (Incidental to cost of "Water Main - #-Inch Dia.")
4. CA-7, CA-8, CA-11 or CA-13 gravel or limestone to spring line for rigid pipe or 12" above top of pipe. Requires Method 1 compaction per IDOT Article 550.07. (Incidental to cost of Storm Sewer).
5. If encountered, remove unsuitable materials and replace with 4" of stone as directed by the Village Engineer. (See Bid Item for 'Removal and Disposal of Unsuitable Material')
6. Existing aggregate base course to be recompacted
7. Existing curb & gutter to remain. (Removal & Replacement per the Village Engineer)

STORM SEWER TRENCH (ROADWAY) TYPICAL SECTION

NOTE: *The removal and disposal of uncontaminated trench spoils shall be incidental to the cost of the Storm Sewer.*



CHAIN LINK FENCE 8-FT GATE DETAIL

NOTE: *Contractor shall submit cut-sheet for gate configuration and manufacturer for Village approval prior to ordering.*

No.	Revision	Date

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Project Manager:	M L A
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Plot Date: Mar 27, 2020 - 1:50pm Plotted By: mike-a
File Name: P:\2018\18253\Drawings\Final Engineering\18253-Final Engineering.dwg

MEMORANDUM

DATE:	August 3, 2026
FROM:	Daniel Kaup, Deputy Village Manager/Public Works Director
SUBJECT:	Resolution Approving an Agreement with Featherstone, Inc. for Construction Management Consulting Services Related to the Friendship Park Fountain Project in the amount of $413,193 for FY 2026
DOLLAR AMOUNT:	$413,193
BUDGETED:	Yes
BUDGET SOURCE:	Capital Improvement Fund
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Community Image

EXECUTIVE SUMMARY

Due to ongoing costly repairs and maintenance needs, the Village has determined that a full replacement of the Friendship Park fountain is needed. The Village's Fountain Advisory Committee—made up of a small combination of Village staff, Plan Commission, and Village Board members—has agreed upon the concept and schematic design of the new fountain. This resolution approves a professional services agreement with Featherstone Inc. for bidding and construction management services related to the final design and construction of the Friendship Park fountain in the amount of $413,193. Funds for this project are allocated in the Village's 2026 Capital Improvement Plan.

MEMO

Background:

During the 2026 budget process, the Village Board approved funds for the design and construction of a replacement fountain at Friendship Park due to increasing water loss. Since then, the Village has assembled a Fountain Advisory Committee consisting of elected officials, plan commissioners, and design engineer consultant Kimley-Horn to develop a concept for schematic design. The Village Board of Trustees then approved a landscape architecture and design contract with Kimley-Horn. In addition to the design services, this project requires a Construction Manager as advisor (CMa) to the Village to oversee the bidding process as well as Phase III construction management.

Discussion:

CMa services will be performed by a professional project and construction management firm that is not affiliated with an architectural firm, engineering firm, or any type of construction company. This allows them to provide unbiased representation to clients through the entire building process.

Featherstone Inc. is a professional CMa firm with extensive experience in managing unique construction projects for public entities throughout Chicagoland. As the consultant that has served on the Fountain Advisory Committee since its inception, Featherstone has a firm understanding of this project, scope, and challenges, and is therefore well suited to provide CMa professional services for the fountain reconstruction. Featherstone has recently provided CMa services on construction projects for the Village of Libertyville, Village of Algonquin, Chicago Botanic Gardens, Morton Arboretum, Brookfield Zoo, and others. As CMa, Featherstone will procure the multiple contracts and trades required for this project while the Village will maintain ownership of the contracts to better control costs and any changes that may arise.

The bid process is anticipated to occur in November 2026 with construction to begin in Spring 2027.

Budget:

The cost associated with this agreement will be paid out of the $5,000,000 project fund identified in the 2026 Capital Improvement Plan.

RESOLUTION NO. 26 - _____

RESOLUTION APPROVING AN AGREEMENT WITH FEATHERSTONE, INC. FOR CONSTRUCTION MANAGEMENT CONSULTING SERVICES RELATED TO THE FRIENDSHIP PARK FOUNTAIN PROJECT IN THE AMOUNT OF $413,193 FOR FY 2026

WHEREAS, Featherstone, Inc. ("Consultant") provided construction management consulting services to the Village for the planning phase of the Friendship Park Fountain Project (*"*Project*"*); and

WHEREAS, the Village has identified the need to retain a professional construction management firm to provide pre-construction and construction management services ("Services") to the Village for the public bidding and contract award and construction phases of the Project; and

WHEREAS, Featherstone, Inc. has performed similar Services for other municipal construction projects; and

WHEREAS, Featherstone, Inc. has submitted a proposal for the provision of the Services to the Village for the not-to-exceed amount of $413,193 plus certain reimbursable expenses; and

WHEREAS, the Village and Featherstone, Inc. desire to enter into an Agreement for the provision of the Services by Featherstone to the Village in accordance with the proposal; and

WHEREAS, the Village President and Board of Trustees have determined that entering into the Agreement with Featherstone, Inc. is in the best interest of the Village of Wheeling;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COUNTIES OF COOK AND LAKE, STATE OF ILLINOIS, that the Village Manager is hereby authorized and directed to execute, on behalf of the Village, the Agreement between the Village and Featherstone, Inc. in an amount not to exceed $413,193.

Trustee _____ moved, second by Trustee _____, that Resolution No. 26- _____ be adopted.

President Horcher	_____		
Trustee Krueger	_____	Trustee Ruffatto	_____
Trustee Lang	_____	Trustee Vito	_____
Trustee Papantos	_____	Trustee Vogel	_____

ADOPTED this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

_____
Patrick Horcher, Village President

ATTEST:

_____
Kathryn M. Brady, Village Clerk

AIA® Document C132® – 2019

Standard Form of Agreement Between Owner and Construction Manager as Adviser

AGREEMENT made as of the «Twenty » day of «July » in the year «Two Thousand Twenty-Six.
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address, and other information)

Village of Wheeling
2 Community Blvd.
Wheeling, Illinois 60090

and the Construction Manager:
(Name, legal status, address, and other information)

Featherstone, Inc.
4610 Roslyn Road
Downers Grove, IL 60515

for the following Project:
(Name, location, and detailed description)

Village of Wheeling
Friendship Park Fountain
Friendship Park, Wheeling, IL 60090

The Landscape Architect:
(Name, legal status, address, and other information)

« Kimley – Horn and Associates, Inc. »
« 4201 Winfield Road, Suite 600
Warrenville, IL 60555

The Owner and Construction Manager agree as follows.

ADDITIONS AND DELETIONS:
The author of this document may have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with AIA Documents A132™–2019, Standard Form of Agreement Between Owner and Contractor, Construction Manager as Adviser Edition; A232™–2019, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition; and B132™–2019, Standard Form of Agreement Between Owner and Architect, Construction Manager as Adviser Edition.

AIA Document A232™–2019 is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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TABLE OF ARTICLES

1 INITIAL INFORMATION

2 CONSTRUCTION MANAGER'S RESPONSIBILITIES

3 SCOPE OF CONSTRUCTION MANAGER'S BASIC SERVICES

4 SUPPLEMENTAL AND ADDITIONAL SERVICES

5 OWNER'S RESPONSIBILITIES

6 COST OF THE WORK

7 COPYRIGHTS AND LICENSES

8 CLAIMS AND DISPUTES

9 TERMINATION OR SUSPENSION

10 MISCELLANEOUS PROVISIONS

11 COMPENSATION

12 SPECIAL TERMS AND CONDITIONS

13 SCOPE OF THE AGREEMENT

ARTICLE 1 INITIAL INFORMATION

§ 1.1 This Agreement is based on the Initial Information set forth in this Section 1.1.
(For each item in this section, insert the information or a statement such as "not applicable" or "unknown at time of execution.")

§ 1.1.1 The Owner's program for the Project:
(Insert the Owner's program, identify documentation that establishes the Owner's program, or state the manner in which the program will be developed.)

«As defined in the attached Kimley – Horn and Associates, Inc.'s Concept A Descending Pools Drawing **§ 1.1.2** The Project's physical characteristics:
(Identify or describe pertinent information about the Project's physical characteristics, such as size; location; dimensions; geotechnical reports; site boundaries; topographic surveys; traffic and utility studies; availability of public and private utilities and services; legal description of the site, etc.)

As defined in the attached Kimley – Horn and Associates, Inc.'s Concept A Descending Pools Drawing
§ 1.1.3 The Owner's budget for the Cost of the Work, as defined in Section 6.1:
(Provide total and, if known, a line item breakdown.)

Featherstone, Inc. Conceptual Estimate dated June 2, 2026

Item #	Description	Conceptual Pricing
1	Demolition	367,279
2	Friendship Park Fountain	3,687,402
3	Project General Requirements	307,047

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4	Design Contingency	310,541
5	Construction Contingency	310,541
6	**Subtotal Friendship Park Fountain**	**4,982,811**

§ 1.1.4 The Owner's anticipated design and construction milestone dates:

.1 Design phase milestone dates, if any:

As defined in the attached Preliminary Project Schedule dated June 8, 2026

.2 Construction commencement date:

As defined in the attached Preliminary Project Schedule dated June 8, 2026

.3 Substantial Completion date or dates:

As defined in the attached Preliminary Project Schedule dated June 8, 2026

.4 Other milestone dates:

Not applicable

§ 1.1.5 The Owner intends the following procurement method for the Project:
(Identify method such as competitive bid or negotiated contract.)

Multiple Prime Contracts

§ 1.1.6 The Owner's requirements for accelerated or fast-track design and construction, multiple bid packages, or phased construction are set forth below:
(Identify any requirements for fast-track scheduling or phased construction and, if applicable, list number and type of bid/procurement packages.)

Multiple Prime Contracts bid in two public bid phases to facilitate an early demolition and site preparation package to support the attached Preliminary Project Schedule dated June 8, 2026,

§ 1.1.7 The Owner's anticipated Sustainable Objective for the Project:
(Identify and describe the Owner's Sustainable Objective for the Project, if any.)

«Not applicable »

§ 1.1.8 Other Project information:
(Identify special characteristics or needs of the Project not provided elsewhere.)

«Not applicable »

§ 1.1.9 The Owner identifies the following representative in accordance with Section 5.5:
(List name, address, and other contact information.)
Mr. Daniel Kaup
Deputy Village Manager / Director of Public Works
77 W Hintz Road
Wheeling, IL 60090

§ 1.1.10 The persons or entities, in addition to the Owner's representative, who are required to review the Construction Manager's submittals to the Owner are as follows:
(List name, address, and other contact information.)

«Not applicable »

§ 1.1.11 The Owner shall retain the following consultants and Contractors:
(List name, legal status, address, and other contact information.)

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.1 Land Surveyor:

Kimley – Horn and Associates, Inc. »
« 4201 Winfield Road, Suite 600
Warrenville, IL 60555 \

.2 Geotechnical Engineer:

Testing Services Corporation
457 East Gundersen Drive
Carol Stream, IL 60188

.3 Civil Engineer

Kimley – Horn and Associates, Inc.
4201 Winfield Road, Suite 600
Warrenville, IL 60555

.4 Contractors, as defined in Section 1.4:

«Not applicable »

.5 Separate Contractors, as defined in Section 1.4:

«Not applicable »

.6 Other, if any:
(List any other consultants retained by the Owner.)

«Not applicable »

§ 1.1.12 The Construction Manager identifies the following representative in accordance with Section 2.5:
(List name, address, and other contact information.)

Tom Featherstone or Kevin Burke
Featherstone, Inc.
4610 Roslyn Road
Downers Grove, IL 60515

§ 1.1.13 The Construction Manager's staffing plan as required under Section 3.3.3 shall include:
(List any specific requirements and personnel to be included in the staffing plan, if known.)

«To be determined.

§ 1.1.14 The Construction Manager's consultants retained under Basic Services, if any:
(List name, legal status, address, and other contact information of any consultants.)

« All scope of services will be provided by in-house staff.

§ 1.1.15 The Construction Manager's consultants retained under Supplemental Services:

«Not applicable »

§ 1.1.16 Other Initial Information on which this Agreement is based:

«Not applicable »

§ 1.2 The Owner and Construction Manager may rely on the Initial Information. Both parties, however, recognize that the Initial Information may materially change and, in that event, the Owner and the Construction Manager shall appropriately adjust the Construction Manager's services, schedule for the Construction Manager's services, and the Construction

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Manager's compensation. The Owner shall adjust the Owner's budget for the Cost of the Work and the Owner's anticipated design and construction milestones, as necessary, to accommodate material changes in the Initial Information.

§ 1.4 The term "Contractors" refers to persons or entities who perform Work under contracts with the Owner that are administered by the Construction Manager and Landscape Architect. The term "Contractors" is used to refer to such persons or entities, whether singular or plural. The term does not include the Owner's own forces, or Separate Contractors, which are persons or entities who perform construction under separate contracts with the Owner not administered by the Construction Manager and Landscape Architect.

ARTICLE 2 CONSTRUCTION MANAGER'S RESPONSIBILITIES

§ 2.1 The Construction Manager shall provide the services as set forth in this Agreement.

§ 2.2 The Construction Manager shall perform its services consistent with the skill and care ordinarily provided by construction managers practicing in the same or similar locality under the same or similar circumstances. The Construction Manager shall perform its services as expeditiously as is consistent with such skill and care and the orderly progress of the Project.

§ 2.3 The Construction Manager shall provide its services in conjunction with the services of a Landscape Architect as described in AIA Document B132™–2019, Standard Form of Agreement Between Owner and Landscape Architect, Construction Manager as Adviser Edition. The Construction Manager shall not be responsible for actions taken by the Landscape Architect.

§ 2.4 The Construction Manager shall coordinate its services with those services provided by the Owner, the Landscape Architect, the Contractors, and the Owner's other consultants and Separate Contractors. The Construction Manager shall be entitled to rely on, and shall not be responsible for, the accuracy and completeness of services and information furnished by the Owner, the Landscape Architect, and the Owner's other consultants and Separate Contractors. The Construction Manager shall provide prompt written notice to the Owner if the Construction Manager becomes aware of any error, omission, or inconsistency in such services or information.

§ 2.5 The Construction Manager shall identify a representative authorized to act on behalf of the Construction Manager with respect to the Project.

§ 2.6 The Construction Manager, as soon as practicable after execution of the Agreement, shall notify the Owner in writing of the names and qualifications of its proposed key staff members. Within 14 days of receipt of the names and qualifications of the Construction Manager's proposed key staff members, the Owner may reply to the Construction Manager in writing, stating (1) whether the Owner has reasonable objection to a proposed key staff member or (2) that the Owner requires additional time to review. Failure of the Owner to reply within the 14-day period shall constitute notice of no reasonable objection. The Construction Manager shall not staff any employees on the Project to whom the Owner has made reasonable and timely objection. The Construction Manager shall not change its key staff members without the Owner's consent, which shall not be unreasonably withheld or delayed.

§ 2.7 Except with the Owner's knowledge and consent, the Construction Manager shall not engage in any activity, or accept any employment, interest or contribution that would reasonably appear to compromise the Construction Manager's judgment with respect to this Project.

§ 2.8 The Construction Manager shall maintain the following insurance until termination of this Agreement. If any of the requirements set forth below are in addition to the types and limits the Construction Manager normally maintains, the Owner shall pay the Construction Manager as set forth in section 11.7.

§ 2.8.1 Commercial General Liability with policy limits of not less than « Two Million » ($ «2,000,000 ») for each occurrence and « Four Million » ($ «4,000,000 ») in the aggregate for bodily injury and property damage

1) **Umbrella Excess Liability**:

Each Occurrence/Aggregate	$5,000,000

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§ 2.8.2 Automobile Liability covering vehicles owned, and non-owned vehicles used, by the Construction Manager with policy limits of not less than « One Million » ($ «1,000,000 ») per accident for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles, along with any other statutorily required automobile coverage.

§ 2.8.3 The Construction Manager may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella liability insurance policies result in the same or greater coverage as the coverages required under Sections 2.8.1 and 2.8.2, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

§ 2.8.4 Workers' Compensation at statutory limits and Employers Liability with policy limits not less than «One Million » ($ «1,000,000 ») each accident, «One Million » ($ «1,000,000») each employee, and «One Million » ($ «1,000,000 ») policy limit.

§ 2.8.5 Professional Liability covering negligent acts, errors and omissions in the performance of professional services with policy limits of not less than «Two Million » ($ «2,000,000 ») per claim and «Two Million» ($ «2,000,000 ») in the aggregate.

§ 2.8.6 Additional Insured Obligations.

a. To the fullest extent permitted by law, the Construction Manager shall cause the primary and excess or umbrella polices for Commercial General Liability and Automobile Liability to include the Owner and its officers, agents and employees as an additional insureds on a primary non-contributory basis for claims caused in whole or in part by the Construction Manager's negligent acts or omissions. The additional insured coverage shall be primary and non-contributory to any of the Owner's insurance policies and shall apply to both ongoing and completed operations.

b. General Liability insurance required of the Construction Manager shall state that it is Primary and Non-Contributory Insurance as to all additional insureds with respect to all claims arising out of operations by or on their behalf. If additional insureds have other applicable insurance coverages, those coverages shall be regarded as on an excess or contingent basis.

c. Under no circumstances shall the Owner be deemed to have waived any of the insurance requirements of this Contract by any act or omission, including, but not limited to:

(1) allowing work by Construction Manager to start before receipt of Certificates of Insurance;

(2) failure to examine, or to demand correction of any deficiency, of any certificate of insurance received.

The Construction Manager agrees that the obligation to provide insurance is solely the Construction Manager's responsibility and cannot be waived by any act or omission of the Owner.

d. The purchase of insurance by the Construction Manager under this Contract shall not be deemed to limit the liability of the Construction Manager in any way, for damages suffered by Owner in excess of policy limits or not covered by the policies purchased.

e. The Construction Manager shall notify the Owner, in writing, of any possible or potential claim for personal injury or property damage arising out of the Work of this Contract promptly whenever the occurrence giving rise to such a potential claim becomes known to the Construction Manager.

§ 2.8.7 The Construction Manager shall provide certificates of insurance to the Owner that evidence compliance with the requirements in this Section 2.8.

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§ 2.11 The Construction Manager shall retain all Project related documents and information it receives, and the Owner and Landscape Architect shall have access to the documents and information. The Construction Manager shall transmit the documents and information to the Owner at final completion.

ARTICLE 3 SCOPE OF CONSTRUCTION MANAGER'S BASIC SERVICES

§ 3.1 Definition

The Construction Manager's Basic Services consist of those described in this Article 3, and include usual and customary Preconstruction and Construction Phase Services. Services not set forth in this Article 3 are Supplemental or Additional Services. The Owner, Construction Manager, and Contractors may agree, in consultation with the Landscape Architect, for the Construction Phase to commence prior to completion of the Preconstruction Phase, in which case, both phases will proceed concurrently.

§ 3.2 Preconstruction Phase

§ 3.2.1 The Construction Manager shall review the program furnished by the Owner and any evaluation of the Owner's program provided by the Landscape Architect, to ascertain the requirements of the Project and shall arrive at a mutual understanding of such requirements with the Owner and Landscape Architect.

§ 3.2.2 The Construction Manager shall provide a preliminary evaluation of the Owner's program, schedule and construction budget requirements, each in terms of the other.

§ 3.2.3 The Construction Manager shall prepare, and deliver to the Owner, for the Owner's approval, a written Construction Management Plan that includes, at a minimum, the following: (1) preliminary evaluations required in Section 3.2.2, (2) a Project schedule, (3) cost estimates, (4) recommendations for Project delivery method, and (5) Contractors' scopes of Work. The Construction Manager shall periodically update the Construction Management Plan, for the Owner's approval, over the course of the Project.

§ 3.2.4 The Construction Manager shall prepare and periodically update the Project schedule included in the Construction Management Plan for the Landscape Architect's review and the Owner's acceptance. The Construction Manager shall obtain the Landscape Architect's approval for the portion of the Project schedule relating to the performance of the Landscape Architect's services. The Project schedule shall coordinate and integrate the Construction Manager's services, the Landscape Architect's services, other Owner consultants' services, and the Owner's responsibilities and highlight items that affect the Project's timely completion.

§ 3.2.5 The Construction Manager shall update the Project schedule to include the components of the Work, including phasing of construction, times of commencement and completion required of each Contractor, ordering and delivery of products, including those that must be ordered in advance of construction, obtaining the required reviews and approvals of authorities having jurisdiction over the Project, and the occupancy requirements of the Owner.

§ 3.2.6 Based on the preliminary design and information prepared or provided by the Landscape Architect and other Owner consultants, the Construction Manager shall prepare, for the Landscape Architect's review and Owner's approval, preliminary estimates of the Cost of the Work or the cost of program requirements using area, volume or similar conceptual estimating techniques, including the establishment of sufficient contingency to reasonably anticipate the development of the Project's design documents. If the Landscape Architect suggests alternative materials and systems, the Construction Manager shall provide cost evaluations of those alternative materials and systems and may also provide its own suggestions.

§ 3.2.7 The Construction Manager shall review design documents during their development and advise the Owner and Architect on proposed site use and improvements, selection of materials, building systems, and equipment. The Construction Manager shall also provide recommendations to the Owner and Architect, consistent with the Project requirements, on constructability; availability of materials and labor; sequencing for phased construction; time requirements for procurement, installation and construction; and factors related to construction cost including, but not limited to, costs of alternative designs or materials, preliminary budgets, life-cycle data, and possible cost reductions.

§ 3.2.8 The Construction Manager shall review recommendations for systems, materials, or equipment for the impact upon cost, schedule, sequencing, constructability, and coordination among the Contractors. The Construction Manager shall discuss its findings with the Owner and the Landscape Architect, and coordinate resolution, as necessary, of any such impacts.

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§ 3.2.9 As the Architect progresses with the preparation of the Design Development Documents, the Construction Manager shall prepare and update, one additional estimate of the Cost of the Work with increasing detail and refinement. The Construction Manager shall include in the estimate those costs to allow for further development of the design, bidding or negotiating, price escalation, and market conditions. The estimate shall be provided for the Landscape Architect's review and the Owner's approval. The Construction Manager shall inform the Owner and Landscape Architect in the event that the estimate of Cost of the Work exceeds the latest approved Project budget, and make recommendations for corrective action.

§ 3.2.10 As the Landscape Architect progresses with the preparation of the Design Development and Construction Documents, the Construction Manager shall consult with the Owner and Architect and make recommendations whenever the Construction Manager determines that the design, or details, adversely affect cost, scope, schedule, constructability, or quality of the Project.

§ 3.2.11 The Construction Manager shall provide recommendations and information to the Owner and Landscape Architect regarding the assignment of responsibilities for temporary Project facilities and equipment, materials and services for common use of the Contractors. The Construction Manager shall verify that such requirements and assignment of responsibilities are included in the proposed Contract Documents.

§ 3.2.13 The Construction Manager shall provide recommendations to the Owner on the division of the Project into individual contracts for the construction of various categories of Work, including the method to be used for selecting Contractors and awarding Contracts for Construction. The Construction Manager shall review the Drawings and Specifications and make recommendations as required to provide that (1) the Work of the Contractors is coordinated, (2) all requirements for the Project are assigned to the appropriate Contract, (3) the likelihood of jurisdictional disputes is minimized, and (4) proper coordination is provided for phased construction.

§ 3.2.14 The Construction Manager shall make recommendations about, and coordinate the ordering and delivery of, materials in support of the schedule, including those that must be ordered in advance of construction.

§ 3.2.15 The Construction Manager shall assist the Owner in selecting, retaining, and coordinating the professional services of surveyors, geotechnical engineers, special consultants, and construction materials testing required for the Project.

§ 3.2.16 The Construction Manager shall provide an analysis of the types and quantities of labor required for the Project and review the availability of appropriate categories of labor required for critical phases. The Construction Manager shall make recommendations for actions designed to minimize adverse effects of labor shortages.

§ 3.2.17 The Construction Manager shall assist the Owner in obtaining information regarding applicable requirements for equal employment opportunity programs, and other programs as may be required by governmental and quasi-governmental authorities for inclusion in the Contract Documents.

§ 3.2.18 Following the Owner's approval of the Drawings and Specifications, the Construction Manager shall update and submit the latest estimate of the Cost of the Work and the Project schedule for the Landscape Architect's review and the Owner's approval. The agreement includes one detailed estimate based on the Concept Design already provided and one additional estimate at the end of Design Development.

§ 3.2.19 The Construction Manager, in consultation with the Owner, shall develop bidders' interest in the Project and establish bidding schedules. The Construction Manager shall assist the Owner and the Landscape Architect with the development of the Bidding Documents, which consist of bidding requirements and proposed Contract Documents. The Construction Manager, with the assistance of the Landscape Architect, shall issue Bidding Documents to bidders and conduct pre-bid conferences with prospective bidders. The Construction Manager shall issue the current Project schedule with each set of Bidding Documents. The Construction Manager shall assist the Landscape Architect with regard to questions from bidders and with the issuance of addenda.

§ 3.2.20 The Construction Manager shall submit a list of prospective bidders for the Landscape Architect's review and the Owner's approval.

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§ 3.2.21 The Construction Manager shall review bids, and prepare bid analyses, and make recommendations to the Owner for the Owner's award of Contracts for Construction or rejection of bids. All Prime Contracts for construction Work on the Project shall be obtained through the public bidding procedures required under the Illinois Municipal Code and the Village of Wheeling Municipal Code. The Construction Manager shall analyze and/or evaluate each of the submitted bids from the prospective bidders for the Work on the Project to determine the lowest responsible bidder for each of the categories of Work on the Project and shall advise the Owner of its evaluation accordingly.

§ 3.2.22 The Construction Manager shall assist the Owner in preparing Contracts for Construction. The Construction Manager shall advise the Owner on the acceptability of Subcontractors and material suppliers proposed by Contractors.

§ 3.2.23 The Construction Manager shall assist the Owner in obtaining building permits and special permits for permanent improvements, except for permits required to be obtained directly by the Contractors. The Construction Manager shall verify that the Owner has paid applicable fees and assessments. The Construction Manager shall assist the Owner and Landscape Architect in connection with the Owner's responsibility for filing documents required for the approvals of governmental authorities having jurisdiction over the Project.

§ 3.3 Construction Phase

§ 3.3.1 The Construction Manager shall provide on-site administration of the Contracts for Construction in cooperation with the Landscape Architect as set forth below and in AIA Document A232™–2019, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition. If the Owner and Contractor modify AIA Document A232–2019, those modifications shall not affect the Construction Manager's services under this Agreement unless the Owner and the Construction Manager amend this Agreement. The Construction Manager shall be present on the project site on a periodic basis during the active performance of the Work, and at such other times as Construction Manager determines is reasonably required for the performance of the Construction Manager's services.

§ 3.3.2 Subject to Section 4.2 and except as provided in Section 3.3.30, the Construction Manager's responsibility to provide Construction Phase Services commences with the award of the initial Contract for Construction and terminates on the date the Landscape Architect issues the final Certificate for Payment.

§ 3.3.3 The Construction Manager shall provide a staffing plan to include one or more representatives who shall be in attendance at the Project site whenever the Work is being performed.

§ 3.3.4 The Construction Manager shall provide administrative, management and related services to coordinate scheduled activities and responsibilities of the Contractors with each other and with those of the Construction Manager, the Owner and the Landscape Architect. The Construction Manager shall coordinate the activities of the Contractors in accordance with the latest approved Project schedule and the Contract Documents.

§ 3.3.5 The Construction Manager shall review and analyze the construction schedules provided by the Contractors to update the Project schedule, incorporating the activities of the Owner, Landscape Architect, and Contractors on the Project, including activity sequences and durations, allocation of labor and materials, processing of Shop Drawings, Product Data and Samples, and delivery and procurement of products, including those that must be ordered in advance of construction. The Project schedule shall include the Owner's occupancy requirements showing portions of the Project having occupancy priority. The Construction Manager shall update and reissue the Project schedule as required to show current conditions. If an update indicates that the previously approved Project schedule may not be met, the Construction Manager shall recommend corrective action to the Owner and Landscape Architect. The Construction Manager shall update the Owner as to the actual progress of construction and compare the actual progress to the construction schedule on at least a monthly basis.

§ 3.3.6 The Construction Manager shall schedule and conduct meetings to discuss matters such as procedures, progress, coordination, and scheduling of the Work, and to develop solutions to issues identified. The Construction Manager shall prepare and promptly distribute minutes to the Owner, Landscape Architect and Contractors.

§ 3.3.7 In accordance with the Contract Documents and the latest approved Project schedule, and utilizing information from the Contractors, the Construction Manager shall review, analyze, schedule and coordinate the overall sequence of construction and assignment of space in areas where the Contractors are performing Work.

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§ 3.3.8 The Construction Manager shall coordinate all tests and inspections required by the Contract Documents or governmental authorities, observe the on-site testing and inspections, and arrange for the delivery of test and inspection reports to the Owner and Landscape Architect.

§ 3.3.9 The Construction Manager shall endeavor to obtain satisfactory performance from each of the Contractors. The Construction Manager shall recommend courses of action to the Owner when requirements of a Contract are not being fulfilled.

§ 3.3.10 The Construction Manager shall monitor and evaluate actual costs for activities monthly as part of the Progress Payment Report which the Construction Manager will certify and submit monthly. Cost Reports for the overall project will also be reported monthly in the form of a Cost Model Report which will include the original budget, contract amounts, and approved change orders to date, adjusted contract amounts, pending costs, and total commitment on a contract-by-contract basis.

§ 3.3.11 The Construction Manager shall develop cash flow reports and forecasts for the Project and include them in the Construction Manager's progress reports.

§ 3.3.12 The Construction Manager shall maintain accounting records on authorized Work performed under unit costs, additional Work performed on the basis of actual costs of labor and materials, and other Work requiring accounting records.

§ 3.3.12.1 The Construction Manager shall develop and implement procedures for the review and processing of Applications for Payment by Contractors for progress and final payments.

§ 3.3.12.2 Not more frequently than monthly, the Construction Manager shall review and certify the amounts due the respective Contractors as follows:

.1 If specifically requested by Contractor, progress payments will be reviewed monthly as the Work progresses. No later than the 25th day of each month Contractor shall submit to the Construction Manager for approval a detailed estimate of the value of the Work done and materials furnished during such month

.2 The Construction Manager shall, within seven days after the Construction Manager receives each Contractor's Application for Payment: (1) review the Applications and certify the amount the Construction Manager determines is due each Contractor; (2) prepare a Summary of Contractors' Applications for Payment by summarizing information from each Contractor's Application for Payment; (3) prepare a Project Application and Certificate for Payment; (4) certify the total amount the Construction Manager determines is due all Contractors collectively; and (5) forward the Summary of Contractors' Applications for Payment and Project Application and Certificate for Payment to the Owner.

The Construction Manager in cooperation with the Architect, shall obtain from each of the Prime Contractors with each Application for Payment, a properly completed Affidavit setting out, under oath, the name, address and amount due or to become due to each Subcontractor and/or any other appropriate party included in that payment. For every party listed, the Prime Contractor shall also provide a full or partial waiver of lien, as appropriate, before payment shall be made by the Owner. The Prime Contractor's partial or final waiver of lien must be included. Payment Certificates shall not be issued without such mechanic's lien waivers and sworn Certificates shall not be issued without such mechanic's lien waivers and sworn statements unless they are conditioned upon receipt of such waivers and statements.

§ 3.3.12.3 The Construction Manager's certification for payment shall constitute a representation by the Construction Manager to the Owner, pursuant to the Construction Manager's obligations under this Agreement, and based on the data comprising the Contractor's Application for Payment, that the Work of the respective Prime Contractor has progressed to the point indicated; that, in the Construction Manager's professional judgment, that the quality of the Work, as observed, is in accordance with the Contract Documents, subject only to any specific qualifications noted in the Certificate of Payment; and that the Prime Contractor is entitled to payment in the amount certified. The Construction Manager's certification shall not be construed to guarantee that all Work has been done without defects. The Construction Manager shall exercise its best efforts to monitor payments by the Prime Contractors to subcontractors who perform the Work on the Project and/or whose names appear on the Contractor's sworn affidavit, request for payment or schedule of values, through lien waivers and job meetings, to determine whether payments have been made in accordance with the Contractor's sworn statement and the lien waivers presented. The Construction Manager shall promptly notify the Owner of any complaints received from subcontractors, material or supply companies concerning non-payment or delayed

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payment and shall advise and assist the Owner in resolving payment problems expeditiously in order, where possible, to avoid delays in the Work. The foregoing representations are subject to (1) an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion; (2) results of subsequent tests and inspections; (3) correction of minor deviations from the Contract Documents prior to completion; and (4) specific qualifications expressed by the Construction Manager. The issuance of a Certificate for Payment shall further constitute a recommendation to the Owner that the Contractor be paid the amount certified.

§ 3.3.12.4 The certification of an Application for Payment or a Project Application for Payment by the Construction Manager shall not be a representation that the Construction Manager has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, procedures, or sequences for a Contractor's own Work; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate each Contractor's right to payment;

§ 3.3.13 The Construction Manager shall obtain the safety programs developed by each Contractor solely and exclusively for purposes of coordinating the safety programs with those of the other Contractors.

§ 3.3.14 The Construction Manager shall determine in general that the Work of each Contractor is being performed in accordance with the requirements of the Contract Documents and notify the Owner, Contractor and Landscape Architect of defects and deficiencies in the Work. The Construction Manager shall have the authority to reject Work that does not conform to the Contract Documents and shall notify the Landscape Architect about the rejection. The failure of the Construction Manager to reject Work shall not constitute acceptance of the Work. The Construction Manager shall record any rejection of Work in its daily log and include information regarding the rejected Work in its progress reports to the Landscape Architect and Owner pursuant to Section 3.3.22.1. Upon written authorization from the Owner, the Construction Manager may require and make arrangements for additional inspection or testing of the Work in accordance with the provisions of the Contract Documents, whether or not the Work is fabricated, installed or completed, and the Construction Manager shall give timely notice to the Landscape Architect of when and where the tests and inspections are to be made so that the Architect may be present for such procedures.

§ 3.3.15 The Construction Manager shall advise and consult with the Owner and Landscape Architect during the performance of its Construction Phase Services. The Construction Manager shall endeavor to obtain satisfactory performance from each of the Prime Contractors on the Project and shall endeavor to guard the Owner against defects and deficiencies in their Work on the Project. The Construction Manager shall have authority to act on behalf of the Owner only to the extent provided in this Agreement. The Construction Manager shall not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work of each of the Contractors, since these are solely the Contractor's rights and responsibilities under the Contract Documents. The Construction Manager shall not be responsible for a Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Construction Manager shall be responsible for the Construction Manager's negligent acts or omissions, but shall not have control over or charge of, and shall not be responsible for, acts or omissions of the Contractors, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 3.3.16 The Construction Manager shall transmit to the Landscape Architect requests for interpretations, and requests for information of the meaning and intent of the Drawings and Specifications, and provide its written recommendation. The Construction Manager shall assist in the resolution of questions that may arise.

§ 3.3.17 The Construction Manager shall review requests for changes, assist in negotiating Contractors' proposals, submit recommendations to the Landscape Architect and Owner, and, if the proposed changes are accepted or required by the Owner, prepare Change Orders or Construction Change Directives that incorporate the Landscape Architect's modifications to the Contract Documents.

§ 3.3.18 The Construction Manager shall assist the Initial Decision Maker in the review, evaluation and documentation of Claims, subject to Section 4.2.2.7.

§ 3.3.19 Utilizing the submittal schedules provided by each Contractor, the Construction Manager shall prepare, and revise as necessary, a Project submittal schedule incorporating information from the Owner, Owner's consultants, Owner's Separate Contractors and vendors, governmental agencies, and participants in the Project under the management of the Construction Manager. The Project submittal schedule and any revisions shall be submitted to the Landscape Architect for approval.

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§ 3.3.20 The Construction Manager shall promptly coordinate submittals with information contained in related documents, and transmit to the Landscape Architect for approval. The Construction Manager's actions shall be taken in accordance with the Project submittal schedule approved by the Landscape Architect, or in the absence of an approved Project submittal schedule, with such reasonable promptness as to cause no delay in the Work or in the activities of the Contractors, the Owner, or the Landscape Architect.

§ 3.3.20.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractors by the Contract Documents, the Construction Manager shall coordinate those with the other Contractors.

§ 3.3.21 The Construction Manager shall keep a daily log containing a record of weather, each Contractor's Work on the site, number of workers, identification of equipment, Work accomplished, problems encountered, and other similar relevant data as the Owner may require.

§ 3.3.21.1 The Construction Manager shall collect, review for accuracy, and compile the Contractors' daily logs; and include them in the Construction Manager's reports prepared and submitted in accordance with section 3.3.21.2.

§ 3.3.21.2 The Construction Manager shall record the progress of the Project. On a monthly basis, or otherwise as agreed to by the Owner, the Construction Manager shall submit written progress reports to the Owner and Architect, showing percentages of completion and other information identified below:

.1 Work completed for the period;
.2 Project schedule status;
.3 Submittal schedule and status report, including a summary of remaining and outstanding submittals;
.4 Request for information, Change Order, and Construction Change Directive status reports;
.5 Tests and inspection reports;
.6 Status report of nonconforming and rejected Work;
.7 Daily logs;
.8 Summary of all Contractors' Applications for Payment;
.9 Cumulative total of the Cost of the Work to date including the Construction Manager's compensation and reimbursable expenses at the job site, if any;
.10 Cash-flow and forecast reports;
.11 Photographs to document the progress of the Project;
.12 Status reports on permits and approvals of authorities having jurisdiction; and
.13 Any other items the Owner may require:

§ 3.3.21.3 In addition, for Projects constructed on the basis of the Cost of the Work, the Construction Manager shall include the following additional information in its progress reports:

.1 Cost summary, comparing actual costs to updated cost estimates; and
Any other items the Owner may require:

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§ 3.3.22 Utilizing and relying on the documents provided by the Contractors, the Construction Manager shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Owner, Landscape Architect, and Contractors. Upon completion of the Project, the Construction Manager shall deliver them to the Owner.

§ 3.3.23 The Construction Manager shall arrange for the delivery, storage, protection and security of Owner-purchased materials, systems and equipment that are a part of the Project until such items are incorporated into the Work.

§ 3.3.24 With the Owner's maintenance personnel, the Construction Manager shall observe the Contractors' final testing and start-up of utilities, operational systems and equipment and observe any commissioning as the Contract Documents

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may require.

§ 3.3.25 When the Construction Manager considers each Contractor's Work or a designated portion thereof substantially complete, the Construction Manager shall, jointly with that Contractor, Owner, and Landscape Architect, prepare for the Landscape Architect, and Owner a list of incomplete or unsatisfactory items and a schedule for their completion. The Construction Manager shall assist the Landscape Architect and Owner in conducting inspections to determine whether the Work or designated portion thereof is substantially complete.

§ 3.3.26 When the Work of all of the Contractors, or designated portion thereof, is substantially complete, the Construction Manager shall prepare, and the Construction Manager and Landscape Architect shall execute, a Certificate of Substantial Completion. The Construction Manager shall submit the executed Certificate to the Owner and Contractors. The Construction Manager shall coordinate the correction and completion of the Work. Following issuance of a Certificate of Substantial Completion of the Work or a designated portion thereof, the Construction Manager along with the Landscape Architect, and Owner shall perform an inspection to confirm the completion of the Work of the Contractors and make recommendations to the Landscape Architect when the Work of all of the Contractors is ready for final inspection. The Construction Manager shall assist the Landscape Architect, and Owner in conducting the final inspection.

§ 3.3.27 The Construction Manager shall forward to the Owner, with a copy to the Landscape Architect, the following information received from the Contractors: (1) certificates of insurance ; (2) consent of surety or sureties, if any, to reduction in or partial release of retainage or the making of final payment; (3) affidavits, receipts, releases and waivers of liens or bonds indemnifying the Owner against liens; and (4) any other documentation required of the Contractors under the Contract Documents, including warranties and similar submittals.

§ 3.3.28 The Construction Manager shall coordinate receipt, and delivery to the Owner, of other items provided by the Contractors, such as keys, manuals, and record drawings. The Construction Manager shall forward to the Landscape Architect a final Project Application for Payment and Project Certificate for Payment, or a final Application for Payment and final Certificate for Payment, upon the Contractors' compliance with the requirements of the Contract Documents.

§ 3.3.29 Duties, responsibilities and limitations of authority of the Construction Manager as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Construction Manager, Landscape Architect, and Contractors. Consent shall not be unreasonably withheld.

§ 3.3.30 Upon request of the Owner, and prior to the expiration of one year from the date of Substantial Completion, the Construction Manager shall, without additional compensation, conduct a meeting with the Owner and Landscape Architect to review the facility operations and performance.

ARTICLE 4 SUPPLEMENTAL AND ADDITIONAL SERVICES

§ 4.1 Supplemental Services

§ 4.1.1 The services listed below are not included in Basic Services but may be required for the Project. The Construction Manager shall provide the listed Supplemental Services only if specifically designated in the table below as the Construction Manager's responsibility, and the Owner shall compensate the Construction Manager as provided in Section 11.2. Unless otherwise specifically addressed in this Agreement, if neither the Owner nor the Construction Manager is designated, the parties agree that the listed Supplemental Service is not being provided for the Project.
(Designate the Construction Manager's Supplemental Services and the Owner's Supplemental Services required for the Project by indicating whether the Construction Manager or Owner shall be responsible for providing the identified Supplemental Service. Insert a description of the Supplemental Services in Section 4.1.2 below or attach the description of services as an exhibit to this Agreement.)

Supplemental Services	Responsibility *(Construction Manager, Owner or not provided)*
§ 4.1.1.1 Measured drawings	Owner
§ 4.1.1.2 Tenant-related services	Owner
§ 4.1.1.3 Commissioning	Not provided
§ 4.1.1.4 Development of a commissioning plan	Not provided
§ 4.1.1.5 Sustainable Project Services pursuant to Section 4.1.3	Not provided

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§ 4.1.1.6 Furniture, furnishings and equipment delivery, and installation coordination	Not provided
§ 4.1.1.7 Furniture, furnishings and equipment procurement assistance	Not provided
§ 4.1.1.8 Assistance with site selection	Not provided
§ 4.1.1.9 Assistance with selection of the Architect	Not provided
§ 4.1.1.10 Furnish land survey	Not provided
§ 4.1.1.11 Furnish geotechnical engineering services	Not provided
§ 4.1.1.12 Provide insurance advice	Not provided
§ 4.1.1.13 Provide supplemental Project risk analysis and mitigation strategies	Not provided
§ 4.1.1.14 Stakeholder relationships management	Not provided
§ 4.1.1.15 Owner moving coordination	Construction Manager / Owner
§ 4.1.1.16 Coordination of Owner's Separate Contractors	Construction Manager
§ 4.1.1.17 Other Supplemental Services	Not provided

§ 4.1.2 Description of Supplemental Services

§ 4.1.2.1 A description of each Supplemental Service identified in Section 4.1.1 as the Construction Manager's responsibility is provided below.

(Describe in detail the Construction Manager's Supplemental Services identified in Section 4.1.1 or, if set forth in an exhibit, identify the exhibit.)

«Not applicable »

§ 4.1.2.2 A description of each Supplemental Service identified in Section 4.1.1 as the Owner's responsibility is provided below.

(Describe in detail the Owner's Supplemental Services identified in Section 4.1.1 or, if set forth in an exhibit, identify the exhibit.)

«Not applicable »

§ 4.2 Construction Manager's Additional Services

§ 4.2.1 The Construction Manager may provide Additional Services after execution of this Agreement, without invalidating this Agreement. Except for services required due to the fault of the Construction Manager, any Additional Services provided in accordance with this Section 4.2 shall entitle the Construction Manager to compensation pursuant to Section 11.3.

§ 4.2.2 Upon recognizing the need to perform the following Additional Services, the Construction Manager shall notify the Owner with reasonable promptness and explain the facts and circumstances giving rise to the need. The Construction Manager shall not proceed to provide the following Additional Services until the Construction Manager receives the Owner's written authorization:

.1 Services necessitated by a change in the Initial Information, previous instructions or approvals given by the Owner, or a material change in the Project including size, quality, complexity, the Owner's schedule or budget for Cost of the Work, or procurement or delivery method, or bid packages in addition to those listed in Section 1.1.6. Services necessitated by sections 6.4 and 6.6 shall not be considered additional services;

.2 Services necessitated by the enactment or revision of codes, laws, regulations or official interpretations after the date of this Agreement;

.3 Services necessitated by decisions of the Owner not rendered in a timely manner or any other failure of performance on the part of the Owner or the Owner's other consultants or contractors;

.4 Preparation of documentation for alternate bid or proposal requests proposed by the Owner;

.5 Preparation for, and attendance at, a public presentation, meeting or hearing;

.6 Preparation for, and attendance at, a dispute resolution proceeding or legal proceeding, except where the Construction Manager is party thereto;

.7 Consultation concerning replacement of Work resulting from fire or other cause during construction and furnishing services required in connection with the replacement of such Work; or

.8 Assistance to the Initial Decision Maker.

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§ 4.2.3 To avoid delay in the Construction Phase, the Construction Manager shall provide the following Additional Services, notify the Owner with reasonable promptness, and explain the facts and circumstances giving rise to the need. If, upon receipt of the Construction Manager's notice, the Owner determines that all or parts of the services are not required, the Owner shall give prompt written notice to the Construction Manager of the Owner's determination. The Owner shall compensate the Construction Manager for the services provided prior to the Construction Manager's receipt of the Owner's notice:

.1 Providing assistance to the Initial Decision Maker in evaluating an extensive number of Claims submitted by a Contractor or others in connection with the Work.

.2 Services required in an emergency to coordinate the activities of a Contractor or Contractors in the event of risk of personal injury or serious property damage, consistent with Section 3.3.15.

§ 4.2.4 Except for services required under Section 3.3.30, Construction Phase Services that extend beyond the Preliminary Project Schedule dated June 8, 2026 at no fault of the Construction Manager, The Construction Manager shall be compensated as Additional Services to the extent the Construction Manager incurs additional cost in providing those Construction Phase Services.

§ 4.2.5 If the services covered by this Agreement have not been completed per the attached Preliminary Project Schedule dated June 8, 2026, through no fault of the Construction Manager, extension of the Construction Manager's services beyond that time shall be compensated as Additional Services.

ARTICLE 5 OWNER'S RESPONSIBILITIES

§ 5.1 Unless otherwise provided for under this Agreement, the Owner shall provide information in a timely manner regarding requirements for and limitations on the Project, including a written program, which shall set forth the Owner's objectives; schedule; constraints and criteria; special equipment; systems; and site requirements.

§ 5.2 The Owner shall establish the Owner's budget for the Project, including (1) the budget for the Cost of the Work as defined in Section 6.1; (2) the Owner's other costs; and (3) reasonable contingencies related to all of these costs. The Owner shall update the Owner's budget for the Project as necessary throughout the duration of the Project until final completion. If the Owner significantly increases or decreases the Owner's budget for the Cost of the Work, the Owner shall notify the Construction Manager and Landscape Architect. The Owner and the Landscape Architect, in consultation with the Construction Manager, shall thereafter agree to a corresponding change in the Project's scope and quality.

§ 5.3 The Owner acknowledges that accelerated, phased, or fast-track design and construction provides a benefit, but also carries with it the risk of additional costs. If the Owner selects accelerated, phased or fast-track scheduling, the Owner agrees to include in the budget for the Project sufficient contingencies to cover such costs.

§ 5.4 The Owner shall retain an Architect to provide services, duties and responsibilities as described in AIA Document B132–2019, Standard Form of Agreement Between Owner and Landscape Architect, Construction Manager as Adviser Edition. The Owner shall provide the Construction Manager with a copy of the scope of services in the agreement executed between the Owner and Landscape Architect, and any further modifications to the Landscape Architect's scope of services in the agreement.

§ 5.5 The Owner shall identify a representative authorized to act on the Owner's behalf with respect to the Project. The Owner shall render decisions pertaining to documents the Construction Manager submits in a timely manner in order to avoid unreasonable delay in the orderly and sequential progress of the Construction Manager's services.

§ 5.6 Unless provided by the Construction Manager, the Owner shall furnish surveys to describe physical characteristics, legal limitations and utility locations for the site of the Project, and a written legal description of the site. The surveys and legal information shall include, as applicable, grades and lines of streets, alleys, pavements and adjoining property and structures; designated wetlands; adjacent drainage; rights-of-way, restrictions, easements, encroachments, zoning, deed restrictions, boundaries, and contours of the site; locations, dimensions, and other necessary data with respect to existing buildings, other improvements and trees; and information concerning available utility services and lines, both public and private, above and below grade, including inverts and depths. All the information on the survey shall be referenced to a Project benchmark.

§ 5.7 Unless provided by the Construction Manager, the Owner shall furnish services of geotechnical engineers, which may include test borings, test pits, determinations of soil bearing values, percolation tests, evaluations of hazardous materials, seismic evaluation, ground corrosion tests and resistivity tests, including necessary operations for anticipating subsoil conditions, with written reports and appropriate recommendations.

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§ 5.8 The Owner shall provide the Supplemental Services designated as the Owner's responsibility in Section 4.1.1.

§ 5.10 The Owner shall coordinate the services of its own consultants with those services provided by the Construction Manager. Upon the Construction Manager's request, the Owner shall furnish copies of the scope of services in the contracts between the Owner and the Owner's consultants. The Owner shall furnish the services of consultants other than those designated as the responsibility of the Construction Manager in this Agreement, or authorize the Construction Manager to furnish them as an Additional Service, when the Construction Manager requests such services and demonstrates that they are reasonably required by the scope of the Project. The Owner shall require that its consultants and contractors maintain insurance, including professional liability insurance, as appropriate to the services or work provided.

§ 5.11 The Owner shall furnish tests, inspections and reports required by law or the Contract Documents, such as structural, mechanical, and chemical tests, tests for air and water pollution, and tests for hazardous materials.

§ 5.12 The Owner shall furnish all legal, insurance and accounting services, including auditing services, that may be reasonably necessary at any time for the Project to meet the Owner's needs and interests.

§ 5.13 The Owner shall provide prompt written notice to the Construction Manager and Landscape Architect if the Owner becomes aware of any fault or defect in the Project, including errors, omissions or inconsistencies in the Landscape Architect's Instruments of Service or any fault or defect in the Construction Manager's services.

§ 5.14 The Owner reserves the right to perform construction and operations related to the Project with the Owner's own forces, and to award contracts in connection with the Project which are not part of the Construction Manager's responsibilities under this Agreement. The Construction Manager shall notify the Owner if any such independent action will interfere with the Construction Manager's ability to perform the Construction Manager's responsibilities under this Agreement. When performing construction or operations related to the Project, the Owner agrees to be subject to the same obligations and to have the same rights as the Contractors.

§ 5.15 The Owner shall communicate with the Contractors and the Construction Manager's consultants through the Construction Manager about matters arising out of or relating to the Contract Documents. The Owner and Construction Manager shall include the Landscape Architect in all communications that relate to or affect the Landscape Architect's services or professional responsibilities. The Owner shall promptly notify the Landscape Architect of the substance of any direct communications between the Owner and the Construction Manager otherwise relating to the Project. Communications by and with the Landscape Architect's consultants shall be through the Landscape Architect.

§ 5.16 Before executing the Contracts for Construction, the Owner shall coordinate the Construction Manager's duties and responsibilities set forth in the Contracts for Construction with the Construction Manager's services set forth in this Agreement. The Owner shall provide the Construction Manager a copy of the executed agreements between the Owner and Contractors, including the General Conditions of the Contracts for Construction.

§ 5.17 The Owner shall provide the Construction Manager access to the Project site prior to commencement of the Work and shall obligate the Contractors to provide the Construction Manager access to the Work wherever it is in preparation or progress.

§ 5.18 Within 15 days after receipt of a written request from the Construction Manager, the Owner shall furnish the requested information as necessary and relevant for the Construction Manager to evaluate, give notice of, or enforce lien rights.

§ 5.19 Owner will require that each of the Multiple Prime Contractors name the Construction Manager an additional insured on their general liability, automobile liability and excess or umbrella liability insurance policies, on a primary and non-contributory basis, and at least to the same extent and pursuant to the same requirements that Owner be named an additional insured on such policies.

§ 5.20 Construction Manager shall be entitled to rely on the accuracy and completeness of information provided by Owner under this Article 5.

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ARTICLE 6 COST OF THE WORK

§ 6.1 For purposes of this Agreement, the Cost of the Work shall be the total cost to the Owner to construct all elements of the Project designed or specified by the Landscape Architect and shall include the Contractors' general conditions costs, overhead and profit. The Cost of the Work also includes the reasonable value of labor, materials, and equipment, donated to, or otherwise furnished by, the Owner. The Cost of the Work includes the compensation of the Construction Manager and Construction Manager's Consultants during the Construction Phase only, including compensation for reimbursable expenses at the job site, if any. The Cost of the Work does not include the compensation of the Landscape Architect; the costs of the land, rights-of-way, financing, or contingencies for changes in the Work; or other costs that are the responsibility of the Owner.

§ 6.2 The Owner's budget for the Cost of the Work is provided in Initial Information, and shall be adjusted throughout the Project as required under Sections 5.2 and 6.4. Evaluations of the Owner's budget for the Cost of the Work, and the estimates of the Cost of the Work prepared by the Construction Manager, represent the Construction Manager's judgment as a person or entity familiar with the construction industry. It is recognized, however, that neither the Construction Manager nor the Owner has control over the cost of labor, materials; or equipment; the Contractors' methods of determining bid prices; or competitive bidding, market, or negotiating conditions. Accordingly, the Construction Manager cannot and does not warrant or represent that bids or negotiated prices will not vary from the Owner's budget for the Cost of the Work, or from any estimate of the Cost of the Work, or evaluation, prepared or agreed to by the Construction Manager.

§ 6.3 If the Landscape Architect is providing cost estimating services as a Supplemental Service, and a discrepancy exists between the Construction Manager's cost estimates and the Landscape Architect's cost estimates, the Construction Manager and the Landscape Architect shall work together to reconcile the cost estimates.

§ 6.4 If the Construction Manager's estimate of the Cost of the Work exceeds the Owner's budget for the Cost of the Work, the Construction Manager, in consultation with the Architect, shall make appropriate recommendations to the Owner to adjust the Project's size, quality, or budget for the Cost of the Work, and the Owner shall cooperate with the Construction Manager and Landscape Architect in making such adjustments.

§ 6.5 If the Construction Manager's estimate of the Cost of the Work exceeds the Owner's budget for the Cost of the Work, the Owner shall

- **.1** give written approval of an increase in the budget for the Cost of the Work;
- **.2** terminate in accordance with Section 9.5;
- **.3** in consultation with the Construction Manager and Landscape Architect, revise the Project program, scope, or quality as required to reduce the Cost of the Work; or
- **.4** implement any other mutually acceptable alternative.

§ 6.6 If the Owner chooses to revise the Project program, scope, or quality to reduce the Cost of the Work pursuant to Section 6.5.3, or if the bids or proposals received from the prospective Contractors, in the aggregate, exceed the Owner's budget for the Cost of the Work, and the Owner chooses to revise the Project program, scope, or quality to reduce the Cost of the Work , the Construction Manager shall cooperate with the Owner and Landscape Architect to develop the necessary revisions, update the cost estimate, and obtain additional bids. The Construction Manager will perform the services described in Sections 6.4 and 6.6 without additional compensation.

ARTICLE 8 CLAIMS AND DISPUTES

§ 8.1 General

§ 8.1.

§ 8.1.3 To the fullest extent of the law, the Construction Manager shall indemnify and hold the Owner and the Owner's officers and employees harmless from and against all claims, damages, losses, expenses and judgments arising from claims by third parties, including reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are caused by the negligent or wrongful acts or omissions of the Construction Manager, its employees and its consultants in the performance of professional services under this Agreement. The Construction Manager's obligation to indemnify and hold the Owner and the Owner's officers and employees harmless does not include a duty to defend. The indemnification obligation under this paragraph shall not be limited in any way on the amount or type of damages, compensation or benefits payable by the Construction Manager under Workers' Compensation or employee or disability benefit acts.

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§ 8.1.4 The Construction Manager and Owner waive consequential damages for claims, disputes, or other matters in question, arising out of or relating to this Agreement. This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination of this Agreement, except as specifically provided in Section 9.7.

§ 8.2.2
The Owner and Construction Manager shall endeavor to resolve claims, disputes and other matters in question between them by nonbinding mediation, upon which, the parties mutually agree. The parties shall mutually agree in writing to the mediator to hear the dispute. A request for mediation shall be made in writing, delivered to the other party to this Agreement, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of litigation but, in such event, mediation shall proceed in advance of litigation , which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. This paragraph shall not apply to claims involving 3rd parties.

§ 8.2.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 8.2.4 If the parties do not resolve a dispute through mediation pursuant to this Section 8.2, or if the claims of third parties are present, the method of binding dispute resolution shall be the following:
(Check the appropriate box.)

[X] Litigation in a court of competent jurisdiction

ARTICLE 9 TERMINATION OR SUSPENSION

§ 9.1 If the Owner fails to make undisputed payments to the Construction Manager in accordance with this Agreement through no fault of the Construction Manager, such failure shall be considered substantial nonperformance and cause for termination or, at the Construction Manager's option, cause for suspension of performance of services under this Agreement. If the Construction Manager elects to suspend services, the Construction Manager shall give seven days' written notice to the Owner before suspending services. In the event of a suspension of services, the Construction Manager shall have no liability to the Owner for delay or damage caused the Owner because of such suspension of services. Before resuming services, the Owner shall pay the Construction Manager all undisputed sums due prior to suspension and any expenses incurred in the interruption and resumption of the Construction Manager's services. The Construction Manager's fees for the remaining services and the time schedules shall be equitably adjusted.

§ 9.2 If the Owner suspends the Project for more than 90 cumulative days, the Construction Manager shall be compensated for services actually and reasonably performed prior to notice of such suspension. When the Project is resumed, the Construction Manager shall be compensated for actual and reasonable expenses incurred in the interruption and resumption of the Construction Manager's services. The Construction Manager's fees for the remaining services and the time schedules shall be equitably adjusted.

§ 9.3 If the Owner suspends the Project for more than 90 cumulative days for reasons other than the fault of the Construction Manager, the Construction Manager may terminate this Agreement by giving not less than seven days' written notice.

§ 9.4 Either party may terminate this Agreement upon not less than seven days' written notice should the other party fail substantially to perform in accordance with the terms of this Agreement through no fault of the party initiating the termination.

§ 9.5 The Owner may terminate this Agreement upon not less than seven days' written notice to the Construction Manager for the Owner's convenience and without cause.

§ 9.6 If the Owner terminates this Agreement for its convenience pursuant to Section 9.5, or the Construction Manager terminates this Agreement pursuant to Section 9.3, the Owner shall compensate the Construction Manager for services actually and reasonably performed prior to termination, reasonable reimbursable Expenses incurred if applicable, and

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costs directly and reasonably attributable to termination, including the actual and reasonable costs attributable to the Construction Manager's termination of consultant agreements.

§ 9.8 Except as otherwise expressly provided herein, this Agreement shall terminate one year from the date of Substantial Completion.

ARTICLE 10 MISCELLANEOUS PROVISIONS

§ 10.1 This Agreement shall be governed by the internal law of the State of Illinois, without regard to conflict of law principles.

§ 10.2 Terms in this Agreement shall have the same meaning as those in AIA Document A232–2019, General Conditions of the Contract for Construction, and any modifications thereto, except for purposes of this Agreement, the term "Work" shall include the work of all Contractors under the administration of the Construction Manager and the Landscape Architect.

§ 10.3 The Owner and Construction Manager, respectively, bind themselves, their agents, successors, assigns, and legal representatives to this Agreement. Neither the Owner nor the Construction Manager shall assign this Agreement without the written consent of the other.

§ 10.4 If the Owner requests the Construction Manager to execute certificates, the proposed language of such certificates shall be submitted to the Construction Manager for review at least 14 days prior to the requested dates of execution. If the Owner requests the Construction Manager to execute consents reasonably required to facilitate assignment to a lender, the Construction Manager shall execute all such consents that are consistent with this Agreement, provided the proposed consent is submitted to the Construction Manager for review at least 14 days prior to execution. The Construction Manager shall not be required to execute certificates or consents that would require knowledge, services, or responsibilities beyond the scope of this Agreement.

§ 10.5 Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action in favor of, a third party against either the Owner or Construction Manager.

§ 10.6 Unless otherwise required in this Agreement, the Construction Manager shall have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to, hazardous materials or toxic substances in any form at the Project site.

§ 10.7 The Construction Manager shall have the right to include photographic or artistic representations of the design of the Project among the Construction Manager's promotional and professional materials. The Construction Manager shall provide professional credit for the Landscape Architect and the Contractors in the Construction Manager's promotional materials for the Project. The Construction Manager shall be given reasonable access to the completed Project to make such representations. However, the Construction Manager's materials shall not include the Owner's confidential or proprietary information if the Owner has previously advised the Construction Manager in writing of the specific information considered by the Owner to be confidential or proprietary. The Owner shall provide professional credit for the Construction Manager in the Owner's promotional materials for the Project. This Section 10.7 shall survive the termination of this Agreement unless the Owner terminates this Agreement for cause pursuant to Section 9.4.

§ 10.8 If the Construction Manager or Owner receives information specifically designated as "confidential" or "business proprietary," the receiving party shall keep such information strictly confidential and shall not disclose it to any other person except as set forth in Section 10.8.1. This Section 10.8 shall survive the termination of this Agreement.

§ 10.8.1 The receiving party may disclose "confidential" or "business proprietary" information after 7 days' notice to the other party, when required by law, arbitrator's order, or court order, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or to the extent such information is reasonably necessary for the receiving party to defend itself in any dispute. The receiving party may also disclose such information to its employees, consultants, or contractors in order to perform services or work solely and exclusively for the Project, provided those employees, consultants and contractors are subject to the restrictions on the disclosure and use of such information as set forth in this Section 10.8.

§ 10.9 The invalidity of any provision of the Agreement shall not invalidate the Agreement or its remaining provisions. If it is determined that any provision of the Agreement violates any law, or is otherwise invalid or unenforceable, then that

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provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Agreement shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Agreement.

§ 10.10 The Construction Manager shall comply with all federal, state and local laws, rules and regulations applicable to its services hereunder, including, but not limited to, the Drug Free Workplace Act, the Fair Labor Standards Act, the Prevailing Wage Act, all building codes, the Americans with Disabilities Act, the requirements of the Equal Employment Opportunity Clause of the Illinois Human Rights Act, (775 ILCS 5/2-105), the rules and regulations of the Illinois Department of Human Rights, the Public Works Employment Discrimination Act (775 ILCS 5/10 et. seq.), bid rigging, bid rotating, and anti-collusion laws, and all laws and regulations pertaining to occupational and work safety. The Construction Manager's signature on this Agreement herein certifies that it has a sexual harassment policy in effect which complies with 775 ILCS 5/2-105. Construction Manager shall comply with the Illinois Prevailing Wage Act and ensure that Prime Contractors are aware of their obligations under the Act and the duty to use the most current approved rates of wages as found on the IDOL website: https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/2019-Rates.aspx Construction Manager and all contractors and subcontractors shall also file all reports and certified payrolls with the State of Illinois as required by the Statute.

§ 10.11 In the event of the Construction Manager's non-compliance with§ 10.10 of this Agreement , the Construction Manager may be declared ineligible for future contracts or subcontracts and this Agreement may be canceled and voided in whole or in part and such other sanctions or other penalties may be imposed as provided by law, rules, or regulations. However, any forbearance or delay by the Owner in canceling this Agreement shall not be constituted as and does not constitute the Owner's consent to such a violation or the Owner's waiver of any rights it may have.

§ 10.12 The Construction Manager agrees to maintain all records and documents for this project of the Village is in compliance with the Freedom of Information Act, 5 ILCS 140/1 et. seq. In addition, the Construction Manager shall produce, without cost to the Owner, records which are responsive to a request received by the Owner under the Freedom of Information Act so that the Owner may provide records to those requesting them within the time frames required. If additional time is necessary to compile records in response to a request, then the Construction Manager shall notify the Owner and if possible, the Owner shall request an extension so as to comply with the Act.

ARTICLE 11 COMPENSATION

§ 11.1 For the Construction Manager's Basic Services described under Article 3, the Owner shall compensate the Construction Manager as follows:

§ 11.1.1 For Preconstruction Phase Services in Section 3.2:
(Insert amount of, or basis for, compensation, including stipulated sums, multiples or percentages.)

Preconstruction Phase Services	Cost
Subtotal Planning and Design Phase	29,260
Subtotal Bidding/Contract Award Phase	25,650
Subtotal Pre-Construction Services	**54,910**

§ 11.1.2 For Construction Phase Services in Section 3.3:
(Insert amount of, or basis for, compensation, including stipulated sums, multiples or percentages.)

Construction Phase Services	Cost
Construction Management Fee @ 2.5% of Construction Hard Cost	103,298
General & Professional Liability @ 0.83% of Construction Hard Cost	34,184
Construction Staff General Requirements Subtotal Based on (7) Month Project Duration:	220,800
Subtotal Construction Phase Services:	**358,283**

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§ 11.2 For the Construction Manager's Supplemental Services designated in Section 4.1.1, and for any Sustainability Services required pursuant to Section 4.1.3, the Owner shall compensate the Construction Manager as follows:
(Insert amount of, or basis for, compensation. If necessary, list specific services to which particular methods of compensation apply.)

«Not applicable »

§ 11.3 For Additional Services that may arise during the course of the Project, including those under Section 4.2, the Owner shall compensate the Construction Manager as follows:
(Insert amount of, or basis for, compensation.)

«Project Executive $ 297.50 / Hour
Senior Project Manager $ 190.00 / Hour
Estimator / Scheduler $ 175.00 / Hour
Project Manager $ 175.00 / Hour
Senior Site Superintendent $ 180.00 / Hour
Assistant Superintendent $ 120.00 / Hour
Project Administrator $ 100.00/ Hour
Field Superintendent Full Time $28,000 / Month
Construction Hard Cost 3.33 % »

§ 11.4 Compensation for Supplemental and Additional Services of the Construction Manager's consultants when not included in Sections 11.2 or 11.3, shall be the amount invoiced to the Construction Manager plus « » percent (« » %), or as follows:
(Insert amount of, or basis for computing, Construction Manager's consultants' compensation for Supplemental or Additional Services.)

«Not applicable »

§ 11.5 The hourly billing rates for services of the Construction Manager and the Construction Manager's consultants are set forth below. The rates shall be adjusted in accordance with the Construction Manager's and Construction Manager's consultants' normal review practices.
(If applicable, attach an exhibit of hourly billing rates or insert them below.)

« »

Employee or Category	Rate ($0.00)
Project Executive	$ 297.50 / Hour
Senior Project Manager	$ 190.00 / Hour
Estimator / Scheduler	$ 175.00 / Hour
Project Manager	$ 175.00 / Hour
Senior Site Superintendent	$ 180.00 / Hour
Assistant Superintendent	$ 120.00 / Hour
Project Administrator	$ 100.00 / Hour

§ 11.6 Compensation for Reimbursable Expenses
§ 11.6.1 Reimbursable Expenses are in addition to compensation for Basic, Supplemental, and Additional Services and include expenses incurred by the Construction Manager and the Construction Manager's consultants directly related to the Project, as follows:

.1 Transportation and authorized out-of-town travel and subsistence;

.2 Permitting and other fees required by authorities having jurisdiction over the Project;
.3 Printing, reproductions, plots, and standard form documents;
.4 Postage, handling, and delivery;
.5 Expense of overtime work requiring higher than regular rates, if authorized in advance by the Owner;
.6 Professional photography, and presentation materials requested by the Owner;
.7 If required by the Owner, and with the Owner's prior written approval, the Construction Manager's consultants' expenses of professional liability insurance dedicated exclusively to this Project, or the

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expense of additional insurance coverage or limits in excess of that normally maintained by the Construction Manager's consultants;

.8 All taxes levied on professional services and on reimbursable expenses;

.9 Site office expenses; and field office equipment, field office supplies, field office phone, and internet access, mobile phone for the Field Manager, potable water for the field office staff

.10 Procore's Web Based Project Management Services

.11 Other similar Project-related expenditures.

§ 11.6.2 For Reimbursable Expenses the compensation shall be the expenses incurred by the Construction Manager and the Construction Manager's consultants plus «Ten » percent («10 » %) of the expenses incurred.

§ 11.7 Construction Manager's Insurance. If the types and limits of coverage required in Section 2.8 are in addition to the types and limits the Construction Manager normally maintains, the Owner shall pay the Construction Manager for the additional costs incurred by the Construction Manager for the additional coverages as set forth below.
(Insert the additional coverages the Construction Manager is required to obtain in order to satisfy the requirements set forth in Section 2.8, and for which the Owner shall reimburse the Construction Manager.)

«Not applicable »

§ 11.8 Payments to the Construction Manager

§ 11.8.1 Initial Payment

§ 11.8.1.1 An initial payment of «Zero » ($ «0 ») shall be made upon execution of this Agreement and is the minimum payment under this Agreement. It shall be credited to the Owner's account in the final invoice.

§ 11.8.2 Progress Payments

§ 11.8.2.1 Unless otherwise agreed, payments for services shall be made monthly in proportion to services performed. Payments are due and payable upon presentation of the Construction Manager's invoice. Amounts unpaid «Thirty » («30 ») days after the invoice date shall bear interest at the rate entered below, or in the absence thereof at the legal rate prevailing from time to time at the principal place of business of the Construction Manager.
(Insert rate of monthly or annual interest agreed upon.)

«One and One Half » % «1.5 »

§ 11.8.2.2 The Owner shall not withhold amounts from the Construction Manager's compensation to impose a penalty or liquidated damages on the Construction Manager, or to offset sums requested by or paid to Contractors for the cost of changes in the Work, unless the Construction Manager agrees or has been found liable for the amounts in a binding dispute resolution proceeding.

§ 11.8.2.3 Records of Reimbursable Expenses, expenses pertaining to Supplemental and Additional Services, and services performed on the basis of hourly rates shall be available to the Owner at mutually convenient times.

ARTICLE 12 SPECIAL TERMS AND CONDITIONS

Special terms and conditions that modify this Agreement are as follows:
(Include other terms and conditions applicable to this Agreement.)

«Not applicable »

ARTICLE 13 SCOPE OF THE AGREEMENT

§ 13.1 This Agreement represents the entire and integrated agreement between the Owner and the Construction Manager and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended only by written instrument signed by both the Owner and Construction Manager.

§ 13.2 This Agreement is comprised of the following documents identified below:

.1 AIA Document C132™–2019, Standard Form Agreement Between Owner and Construction Manager as Adviser

.2

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As defined on the attached Featherstone, Inc. Village of Wheeling Friendship Park Fountain Concept Budget dated June 2, 2026.

.3 Preliminary Project Schedule dated June 8, 2026

This Agreement is entered into as of the day and year first written above.

OWNER *(Signature)*	**CONSTRUCTION MANAGER** *(Signature)*
(Printed name and title)	THOMAS FEATHERSTONE, PRESIDENT *(Printed name and title)*

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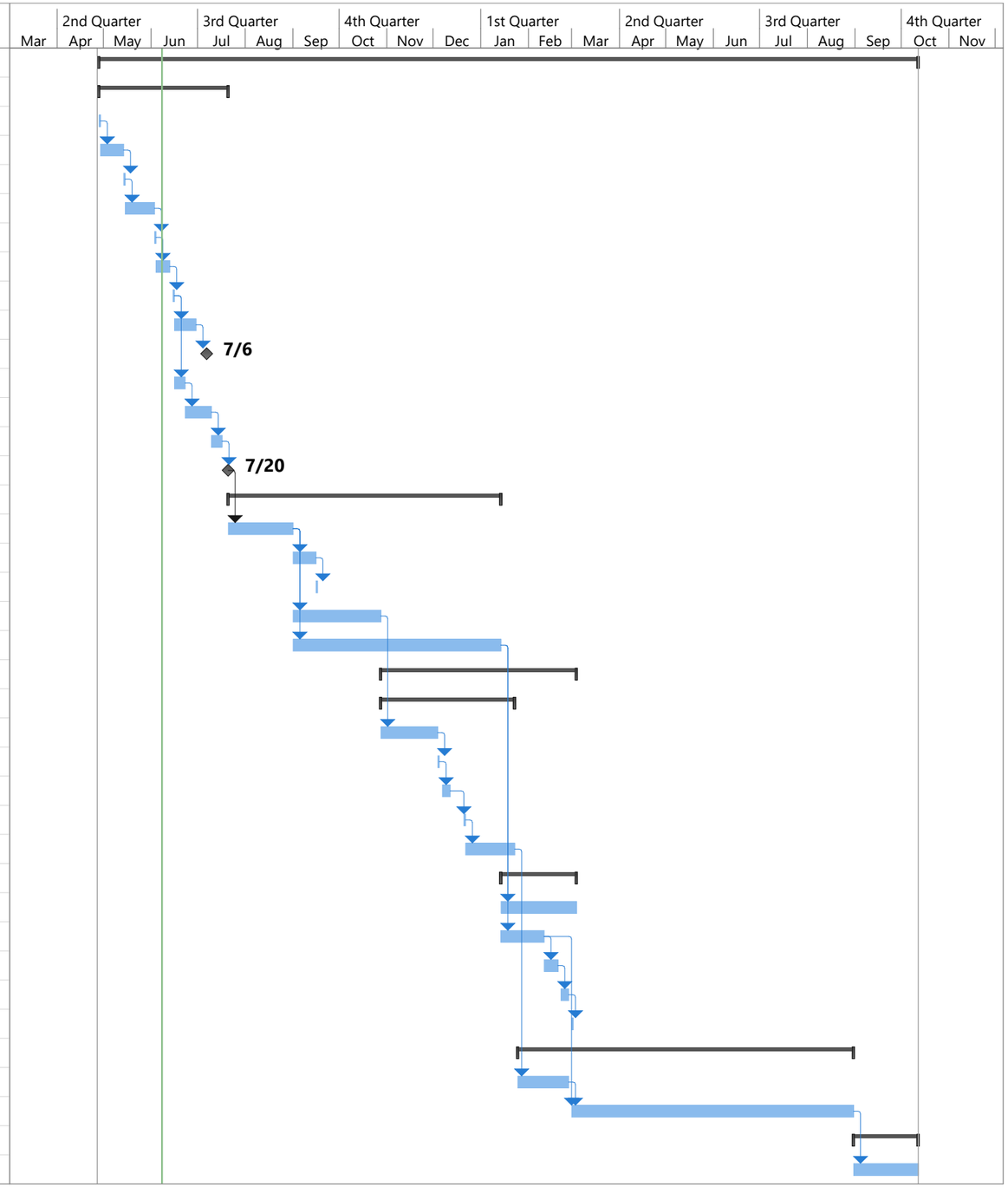
Featherstone
PROJECT + CONSTRUCTION MANAGEMENT

Village of Wheeling
Friendship Park Fountain
Conceptual Estimate
June 2, 2026

Item #	Description	Conceptual Pricing
1	**Demolition**	367,279
2	**Friendship Park Fountain**	3,687,402
3	**Project General Requirements**	307,047
4	**Design Contingency**	310,541
5	**Construction Contingency**	310,541
6		4,982,811

Village of Wheeling
Friendship Park Fountain
Preliminary Project Schedule

ID	Task Name	Duration	Start	Finish	Predecessors
1	**Wheeling - Friendship Park Fountain**	**371 days**	**Tue 4/28/26**	**Mon 10/11/27**	
2	**Preliminary Design**	**59 days**	**Tue 4/28/26**	**Mon 7/20/26**	
3	**Kick Off Meeting - 1st Staff Review Meeting**	**1 day**	**Tue 4/28/26**	**Tue 4/28/26**	
4	**Conceptual Estimate**	**11 days**	**Wed 4/29/26**	**Wed 5/13/26**	3
5	**2nd Staff Review Meeting - Estimate Presentation**	**1 day**	**Thu 5/14/26**	**Thu 5/14/26**	4
6	**Scope / Design Refinement**	**13 days**	**Fri 5/15/26**	**Tue 6/2/26**	5
7	**First Advisory Committee - Initial Presentation**	**1 day**	**Wed 6/3/26**	**Wed 6/3/26**	6
8	Scope / Design Refinement	7 days	Thu 6/4/26	Fri 6/12/26	7
9	**Second Advisory Committee - Refinement Review**	**1 day**	**Mon 6/15/26**	**Mon 6/15/26**	8
10	Prepare Board Meeting Packet	10 days	Tue 6/16/26	Mon 6/29/26	9
11	**Board Meeting - Approval to Proceed to Schematic Design**	**0 days**	**Mon 7/6/26**	**Mon 7/6/26**	**10FS+4 days**
12	Prepare Architect / CMa Agreement	5 days	Tue 6/16/26	Mon 6/22/26	9
13	Owner Review of Architect / CMa Agreement	12 days	Tue 6/23/26	Thu 7/9/26	12
14	Prepare Board Meeting Packet	5 days	Fri 7/10/26	Thu 7/16/26	13
15	**Board Meeting - Owner Review of Architect / CMa Agreement**	**0 days**	**Mon 7/20/26**	**Mon 7/20/26**	**14FS+2 days**
16	**Design Documents**	**120 days**	**Tue 7/21/26**	**Wed 1/13/27**	
17	Schematic Design Documents	30 days	Tue 7/21/26	Mon 8/31/26	15
18	Schematic Design Estimate	10 days	Tue 9/1/26	Tue 9/15/26	17
19	Schematic Design Estimate Review Meeting	1 day	Wed 9/16/26	Wed 9/16/26	18
20	Bid Package A - Demolition Package Design Documents	40 days	Tue 9/1/26	Tue 10/27/26	17
21	Bid Package B - Full Construction Design Documents	90 days	Tue 9/1/26	Wed 1/13/27	17
22	**Preconstruction**	**85 days**	**Wed 10/28/2(**	**Wed 3/3/27**	
23	**Bid Package A - Demolition Package**	**57 days**	**Wed 10/28/2(**	**Fri 1/22/27**	
24	Bidding Period	25 days	Wed 10/28/2(	Thu 12/3/26	20
25	Contract - Review / Approval	1 day	Fri 12/4/26	Fri 12/4/26	24
26	Prepare Board Package	5 days	Mon 12/7/26	Fri 12/11/26	25
27	**Board Meeting Approval**	**1 day**	**Mon 12/21/2(**	**Mon 12/21/26**	**26FS+5 days**
28	Demolition Permit	20 days	Tue 12/22/26	Fri 1/22/27	27
29	**Bid Package B - Full Construction Package**	**35 days**	**Thu 1/14/27**	**Wed 3/3/27**	
30	Building Permit	35 days	Thu 1/14/27	Wed 3/3/27	21
31	Bidding Period	20 days	Thu 1/14/27	Wed 2/10/27	21
32	Contract - Review / Approval	7 days	Thu 2/11/27	Fri 2/19/27	31
33	Prepare Board Package	5 days	Mon 2/22/27	Fri 2/26/27	32
34	**Board Meeting Approval**	**1 day**	**Mon 3/1/27**	**Mon 3/1/27**	**33**
35	**Construction**	**155 days**	**Mon 1/25/27**	**Mon 8/30/27**	
36	Demolition	25 days	Mon 1/25/27	Fri 2/26/27	28
37	New Construction	130 days	Mon 3/1/27	Mon 8/30/27	31,36
38	**Post Construction**	**30 days**	**Tue 8/31/27**	**Mon 10/11/27**	
39	Project Closeout	30 days	Tue 8/31/27	Mon 10/11/27	37



June 8th, 2026

MEMORANDUM

DATE:	August 3, 2026
FROM:	Joseph Kopecky, Police Chief
SUBJECT:	Resolution Approving a Tenth Amendment to the Service Agreement between the Village of Wheeling and Andy Frain Services, Inc. for Crossing Guard Services
DOLLAR AMOUNT:	TBD
BUDGETED:	Yes
BUDGET SOURCE:	General Fund
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Governance

EXECUTIVE SUMMARY

The attached resolution approves the Village Manager's execution of a tenth amendment to the service agreement with Andy Frain for crossing guard services for Community Consolidated School District 21 students pursuant to the intergovernmental agreement (IGA) between the Village and District 21. The amendment extends the term by one year, through June 30, 2027. The crossing guard and field supervisor rate has increased from $29.04 per hour to $29.91 per hour, and the overtime/holiday rate has increased from $43.56 per hour to $44.87 per hour. All other terms remain the same. The cost of service continues to be split evenly between the Village and School District 21 pursuant to the IGA.

RESOLUTION NO. 26- _____

RESOLUTION APPROVING A TENTH AMENDMENT TO THE SERVICE AGREEMENT BETWEEN THE VILLAGE OF WHEELING AND ANDY FRAIN SERVICES, INC. FOR CROSSING GUARD SERVICES

WHEREAS, Community Consolidated School District 21 ("District 21") is a public school district organized and operating pursuant to the *Illinois School Code*, 105 ILCS 5/1-1, et seq.; and

WHEREAS, the Village of Wheeling (the "Village") is a municipal corporation organized and operating pursuant to the *Illinois Municipal Code*, 65 ILCS 5/1-1-1, et al.; and

WHEREAS, Article VII, Section 10 of the 1970 Illinois Constitution authorizes units of local government and school districts to contract or otherwise associate among themselves to obtain or share services and to exercise, combine, or transfer any power or function in any manner not prohibited by law or ordinance; and

WHEREAS, Section 5 of the Illinois *Intergovernmental Cooperation Act*, 5 ILCS 220/5, provides that one or more units of local government may contract to perform any governmental service, activity, or undertaking which any unit of local government entering into the contract is authorized by law to perform, provided that such contract shall be authorized by the governing body of each governmental unit entering into the contract; and

WHEREAS, on May 2, 2016, District 21 and the Village (the "Parties") entered into an Intergovernmental Agreement ("IGA") which provides for equally sharing the costs of providing crossing guard services to promote the safety of District 21 students walking to and from school; and

WHEREAS, pursuant to the IGA and subsequent amendments, the Village and Andy Frain executed a contract to provide crossing guard services through June 30, 2026 (the "Contract"); and

WHEREAS the parties wish to extend the Contract by one year, with the term ending on June 30, 2027;

NOW THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, COOK AND LAKE COUNTIES, ILLINOIS, as follows:

SECTION 1: That the Village Manager's execution of the Tenth Amendment to the Service Agreement between the Village and Andy Frain, attached hereto as Exhibit A, is approved.

SECTION 2: That this Resolution shall be in full force and effect from and after its adoption and approval as provided by law.

Trustee _____ moved, second by Trustee _____ that Resolution No 26- _____ be adopted.

President Horcher	_____		
Trustee Krueger	_____	Trustee Ruffatto	_____
Trustee Lang	_____	Trustee Vito	_____
Trustee Papantos	_____	Trustee Vogel	_____

Resolution No. 26 - _____ **APPROVED** this 3rd day of August, 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

ATTEST:

_____
Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

EXHIBIT A

TENTH AMENDMENT TO SERVICE AGREEMENT
BETWEEN THE VILLAGE OF WHEELING AND ANDY FRAIN SERVICES, INC.

TENTH AMENDMENT TO SERVICE AGREEMENT

Effective July 20, 2026 ("Effective Date"), this Eighth Amendment ("Amendment") amends certain terms and conditions of the Service Agreement made by and between Andy Frain Services, Inc. ("Contractor") and the Village of Wheeling ("Customer") dated July 1, 2016, as follows:

WHEREAS, Customer and Contractor entered into that Service Agreement effective July 1, 2016 (the "**Agreement**") setting forth the terms and conditions under which Contractor provides Customer certain Crossing Guard services personnel for the purpose of performing certain security services (as defined in the Agreement);

WHEREAS, Customer and Contractor now wish to amend the Agreement by entering into this Amendment with such amended terms to commence as of the Effective Date; and

WHEREAS, any term not defined in this Amendment shall have the same meaning ascribed thereto in the Agreement.

NOW, THEREFORE, in consideration of the mutual agreements and promises contained herein, Customer and Contractor hereby agree to amend the Agreement as delineated below commencing as of the Effective Date:

1. **Rates.** The Parties agree that Contractor shall perform its Services from July 20, 2026 through June 30, 2027 at the following hourly bill rates:

Service Personnel	Bill Rate	OT/Holiday
Crossing Guards Field Supervisor	$29.91	$44.87

2. **Term.** The Parties hereby amend Paragraph 11 of the Agreement and extend the Term of the Agreement to June 30, 2027.

3. **Force Majeure/Suspension of Service**. In the event that Customer's operations at the Property where services are performed are halted or substantially decreased by reason of war, hostilities, revolution, riot, civil commotion, terrorist attack, national emergency, strike, labor dispute, lockout, picketing, unavailability of supplies, epidemic, pandemic, endemic, fire, flood, catastrophic weather-like issue, earthquake, force of nature, explosion, embargo, Act of God, or other cause beyond the control of the Customer, then those portions of this Agreement concerning Services to be provided at the affected Property shall, upon twenty-four (24) hours written notice from Customer to Contractor, be suspended until further written notice by Customer to Contractor. Notwithstanding the foregoing, Customer shall pay, in accordance with the terms hereof, Contractor for all Services provided or scheduled to be provided prior to such suspension of, or decrease in, operations.

In the event Contractor is prevented from completing this Agreement by reason of Force Majeure, this Agreement may be suspended for the duration of such hardships, on twenty-four (24) hours' notice addressed by Contractor to Customer, provided that Contractor uses reasonable efforts to cure or mitigate any delays or failure to perform."

4. The Parties agree that this Amendment shall be incorporated by reference into and shall be made part of the Agreement. The Services as contemplated under this Amendment shall remain subject to all other terms and conditions contained in the Agreement. All other provisions of the Agreement not expressly modified herein this Amendment shall remain in full force and effect, it being understood that, in the event of a conflict between the terms of this Amendment and the Agreement, the terms of this Amendment will take precedence. For the convenience of the Parties, this Amendment may be executed in any number of counterparts, including by facsimile, electronic signature or portable document format (i.e., .PDF), each of which shall be deemed to be an original and all of which taken together shall constitute but one and the same instrument. The execution of a counterpart of the signature page of this Amendment shall be deemed to be the execution of a counterpart of this Amendment.

IN WITNESS WHEREOF, the parties hereto as of the day and year first written above have duly executed this Agreement.

ANDY FRAIN SERVICES, INC., an Illinois Corporation

By: _____
Vincent Bove
Vice President
Date: _____

THE VILLAGE OF WHEELING

By: _____
Name: _____
Title: _____
Date: _____

MEMORANDUM

DATE:	August 3, 2026
FROM:	James Ferolo, Village Attorney
SUBJECT:	Resolution Authorizing the Village President and Clerk to Execute Amendment No. 5 to the Commuter Station Development Agreement with Metra
DOLLAR AMOUNT:	N/A
BUDGETED:	No
BUDGET SOURCE:	N/A
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Residential Life

EXECUTIVE SUMMARY

Before the Board is Amendment No. 5 to the Commuter Station Development Agreement with METRA. The Amendment is necessary because of the pending expiration of the current Commuter Station Development Agreement on August 18, 2026. The current Amendment extends the Agreement without an expiration date, but gives the Village an option to terminate the Agreement at any time upon ninety days' written notice. The remainder of the Agreement is unchanged.

MEMO

Metra and the Village of Wheeling entered into a Commuter Station Development Agreement dated March 12, 1996, which governed the construction, operation, and maintenance of the commuter rail station, parking lot, and related facilities—collectively known as the Commuter Station—located along and upon the railroad in Wheeling.

Amendment No. 1 to the Agreement allowed Metra to provide/ design construction funding for the Station to the Village. Amendment No. 2 to the Agreement governed the sublease of specific Railroad property from Metra to the Village to accommodate the Station. Amendment No. 3 to the Agreement was entered into by the Parties to allow for various improvements to the facility, which would then become part of the Project Facilities as defined in the Agreement. Amendment No. 4 to the Agreement extended the term of the Agreement for an additional 10 years through August 18, 2026 and grants the Village permission to redevelop parts of the commuter facility for a transit-oriented district, mixed-use development.

The Parties now desire to extend the term of the Agreement and the Village's right to use and maintain the Station pursuant to the Agreement without an expiration date, and with an option for the Village to terminate the Agreement upon ninety days' written notice.

RESOLUTION NO. 26-_____

RESOLUTION AUTHORIZING THE VILLAGE PRESIDENT AND CLERK TO EXECUTE AMENDMENT NO. 5 TO THE COMMUTER STATION DEVELOPMENT AGREEMENT WITH METRA

WHEREAS, the Village of Wheeling ("Village") and Metra (the "Parties") entered into a Commuter Station Development Agreement, dated March 12, 1996 ("Agreement") to govern the construction, operation and maintenance of the Wheeling commuter rail station ("Station") and related commuter parking facilities ("CPFs") in the Village of Wheeling; and

WHEREAS, Amendment No. 1, dated March 12, 1996, was entered into by the Parties to allow for pass-through funding for construction of the Station, CPFs, and related facilities ("Facility"). Amendment No. 1 was adopted by the Village of Wheeling through Resolution No. 96-36; and

WHEREAS, Amendment No. 2, dated May 3, 1996, was entered into by the Parties to allow for the sublease of railroad property needed for a portion of the Facility. Amendment No. 2 was adopted by the Village of Wheeling through Resolution No. 96-82; and

WHEREAS, Amendment No. 3, dated December 6, 2005, was entered into by the Parties to allow for the construction of various improvements, such as a 12' x 24' brick and glass windbreak, a platform extension, and additional platform lighting, which would then become part of the Project Facilities as defined in the Agreement; and

WHEREAS, Amendment No. 4, in August of 2016, was entered into by the Parties to extend the Agreement for 10 years through August 18, 2026 and to allow for the existing east commuter lot to be redeveloped as part of the Town Center Development; and

WHEREAS, the Parties agree that it is mutually beneficial to amend the Agreement to extend the term indefinitely with a ninety-day cancellation option for the Village;

NOW THEREFORE BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF WHEELING, LAKE AND COOK COUNTIES, ILLINOIS as follows:

1. Amendment No. 5 to the Commuter Station Development Agreement, attached hereto as Exhibit A, is hereby approved and the President and Clerk are authorized to execute a document that is in substantial conformity with the document attached hereto as Exhibit A. All final changes may be approved by the Village Manager.

Trustee _____ moved, second by Trustee _____, that Resolution No. 26- _____ be adopted.

President Horcher	_____		
Trustee Krueger	_____	Trustee Ruffatto	_____
Trustee Lang	_____	Trustee Vito	_____
Trustee Papantos	_____	Trustee Vogel	_____

Resolution No. 26- _____ **ADOPTED** this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

ATTEST: _____
Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

EXHIBIT A

AMENDMENT NO. 5 TO COMMUTER STATION DEVELOPMENT AGREEMENT

AMENDMENT NO. 5 TO
THE COMMUTER STATION DEVELOPMENT AGREEMENT

THIS AMENDMENT No. 5 ("**Amendment**") Metra Agreement No. K00352-5 made and entered into this ____ day of_____, 2026, shall amend and modify the Commuter Station Development Agreement dated March 12, 1996, by and between the Commuter Rail Division of the Regional Transportation Authority, a division of an Illinois municipal corporation ("**Metra**"), and the Village of Wheeling, an Illinois municipal corporation ("**Municipality**"). Metra and Municipality are hereinafter sometimes individually referred to as a "**Party**" and jointly referred to as the "**Parties**".

RECITALS

A. Metra and Municipality have entered into a Commuter Station Development Agreement dated March 12, 1996 ("**Agreement**"), which governs the construction, operation and maintenance of the commuter rail station, parking lot and related facilities ("**Station**") located along and upon the CN-IC, formerly Wisconsin Central, LTD., ("**Railroad**") at Wheeling, Illinois.

B. Amendment No. 1 to the Agreement dated March 12, 1996, allowed Metra to provide/ design construction funding for the Station to Municipality.

C. Amendment No. 2 to the Agreement dated May 3, 1996, governed the sublease of specific Railroad property from Metra to Municipality to accommodate the Station.

D. Amendment No. 3 to the Agreement dated December 6, 2005, was entered into by the Parties to allow for various improvements to the facility, which would then become part of the Project Facilities as defined in the Agreement.

E. Amendment No. 4 to the Agreement dated August 1, 2016, extended the term of the Agreement for an additional 10 years through August 18, 2026 and grants the Municipality permission to redevelop parts the commuter facility for a transit-oriented district, mixed-use development.

F. The Parties now desire to extend the term of the Agreement and Municipality's right to use and maintain the Station pursuant to the Agreement.

AMENDMENT

NOW, THEREFORE, for and in consideration of the above Recitals which are hereby incorporated into the Agreement, the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby mutually acknowledged, the Agreement is hereby amended, and the Parties agree as follows:

1. The Parties agree that Section 15 of the Agreement is stricken in its entirety and replaced with the following new Section 15:

> 15. USE OF FACILITIES. Municipality agrees that the Project Facilities will be used for the facilitation of CRS. Such Project Facilities shall be used from the date first used in the facilitation of CRS and the term of this Agreement shall run for as long as Metra provides Commuter Rail Service to the Wheeling Station on the North Central Service Line. This Amendment No. 5 shall not limit the Municipality's ability to utilize the Project Facilities for other non-conflicting uses such as the uses detailed in Amendment No. 4 dated August 1, 2016. Municipality may terminate this agreement upon ninety days' written notice to CRS.

2. To the extent the provisions of the Agreement are in conflict with the provisions of this Amendment, the provisions of this Amendment shall control.

3. Terms, not otherwise defined herein, shall have the same meanings ascribed to them in the Agreement. The remaining terms, covenants, provisions and conditions of the Agreement shall remain in full force and effect.

4. All rights and obligations included in the Agreement, as amended, are expressly reaffirmed unless explicitly modified in this Amendment.

5. This Amendment may be simultaneously executed in counterparts, each of which so executed shall be deemed to be original, and such counterparts together shall constitute one and the same instrument, the use of electronically scanned and transmitted signatures for the negotiation and execution of this Amendment shall be legal and binding and shall have the same full force and effect as if originally signed.

(**signature page to follow**)

THIS AMENDMENT IS ENTERED INTO between the Parties as of the date first written above.

VILLAGE OF WHEELING:	**COMMUTER RAIL DIVISION OF THE REGIONAL TRANSPORTATION AUTHORITY:**
By: _____	By:_____
	James M. Derwinski, CEO /Executive Director
Name: Patrick Horcher	
Title: Village President	

MEMORANDUM

DATE:	August 3, 2026
FROM:	James Ferolo, Village Attorney
SUBJECT:	Ordinance Disconnecting Certain Territory Contiguous to the City of Prospect Heights
DOLLAR AMOUNT:	N/A
BUDGETED:	No
BUDGET SOURCE:	N/A
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Economic Development

EXECUTIVE SUMMARY

Two ordinances are before the Board to approve the disconnection and annexation of small parcels of land from and to the Village of Wheeling to allow the Sky Harbour Development to develop, with three of the four parcels located fully in Prospect Heights and one fully in the Village of Wheeling, pursuant to the Intergovernmental Planning Agreement approved by the Wheeling Village Board at its July 20 Regular Board meeting. The attached ordinance approves a disconnection of parcels, and immediately following this ordinance on the August 3 Regular Meeting agenda is an ordinance to annex parcels.

MEMO

The Annexation and Disconnection Ordinances before the Board follow approval of the Intergovernmental Planning Agreement on July 20, 2026. The annexation and disconnection will slightly revise the Wheeling/Prospect Heights border in the area of the Sky Harbour FBO Development. The Agreement requires each community to disconnect and annex small parcels of land to allow the Development to proceed, with three of the four Development parcels being fully located in Prospect Heights and one of the four parcels being fully located in Wheeling. This addresses the issue of the Development straddling the municipal boundary line. The Development will be built under Prospect Heights' Building Code.

ORDINANCE NO. _____

ORDINANCE DISCONNECTING CERTAIN TERRITORY CONTIGUOUS TO THE CITY OF PROSPECT HEIGHTS

WHEREAS, the Village of Wheeling is an Illinois home rule municipal corporation pursuant to Article VII, Section 6 of the Constitution of the State of Illinois; and

WHEREAS, certain real property is located within the corporate limits of the Village of Wheeling (***"Wheeling"***), and lies along the boundary line between the City of Prospect Heights (***"Prospect Heights "***) and Wheeling, which real property is legally described and depicted in the Plat of Legal Description attached hereto as **Exhibit A** and, by this reference, made a part of this Ordinance (***"Property"***); and

WHEREAS, Prospect Heights and Wheeling have entered into that certain Intergovernmental Cooperative Planning Agreement dated July 27, 2026 ("***Agreement***"), which Agreement provides that the Property is to be disconnected from Wheeling and annexed to Prospect Heights upon petition; and

WHEREAS, at least one-half of the electors and one-half of the owners of the Property have petitioned that the Property be disconnected from Wheeling and annexed to Prospect Heights, which petition is attached to and, by this reference, made a part of this Ordinance as **Exhibit B** ("***Petition for Disconnection***"); and

WHEREAS, pursuant to Section 7-1-24 of the Illinois Municipal Code, 65 ILCS 5/7-1-24, Wheeling is authorized to disconnect the Property pursuant to the Petition for Disconnection; and

WHEREAS, Wheeling desires to disconnect the Property, conditional upon Prospect Heights's annexation of the Property, all pursuant to Section 7-1-24 of the Illinois Municipal Code.

WHEREAS, in light of the Agreement, the corporate authorities of Wheeling have determined the disconnection of the property is in furtherance of Wheeling's obligations under the Agreement and in the best interests of Wheeling and its residents.

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

SECTION ONE: RECITALS. The foregoing recitals are incorporated into, and made a part of, this Ordinance as findings of the Village Board.

SECTION TWO: DISCONNECTION OF THE PROPERTY. In accordance with and pursuant to Section 7-1-24 of the Illinois Municipal Code, Wheeling hereby disconnects the Property from the corporate limits of Wheeling, provided, however, that such disconnection will not be effective until the adoption and effective date of Prospect Heights's ordinance providing for annexation of the Property (***"Prospect Heights Annexation Ordinance"***).

SECTION THREE: RECORDING.

Upon this ordinance taking effect in accordance with Section Two, the Village Clerk is hereby directed to cause a certified copy of the ordinance together with an accurate map of the

disconnected territory to be provided by Wheeling, to be recorded with the Recorder of Deeds of Cook County, Illinois immediately prior to the recording of the Prospect Heights Annexation Ordinance. The City Clerk is hereby directed and authorized to cooperate with the Prospect Heights City Clerk to effect such sequential recording.

SECTION FOUR: EFFECTIVE DATE. This Ordinance will be in full force and effect from and after its passage, approval, and publication in pamphlet form in the manner provided by law.

Trustee _____ moved, seconded by Trustee_____, that Ordinance No. _____ be passed, this 3rd day of August, 2026.

President Horcher _____

Trustee Krueger _____ Trustee Ruffatto _____

Trustee Lang _____ Trustee Vito _____

Trustee Papantos _____ Trustee Vogel _____

APPROVED this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

_____
ATTEST: Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

APPROVED AS TO FORM ONLY:

_____
Village Attorney

PUBLISHED in pamphlet form this 4th day of August, 2026, by order of the Corporate Authorities of the Village of Wheeling, Cook and Lake Counties, Illinois.

EXHIBIT A

Plat of Legal Description of the Property Attached

Legal Description

THAT PART OF THE SOUTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF LOT 2 IN SKY HARBOUR / AVIATION PLAZA RESUBDIVISION, BEING A RESUBDIVISION OF PARTS OF LOTS 1 AND 2 IN GEORGE STRONG SUBDIVISION OF THE SOUTHEAST QUARTER AND THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AS DOCUMENT NO. 2527530068; THENCE NORTH 24 DEGREES 36 MINUTES 32 SECONDS WEST, ON THE EAST LINE OF SAID LOT 2, 330.14 FEET TO THE SOUTH LINE OF THE CORPORATE LIMITS OF VILLAGE OF WHEELING; THENCE NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID SOUTH LINE, 452.31 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID SOUTH LINE, 312.20 FEET; THENCE NORTH 63 DEGREES 01 MINUTES 03 SECONDS EAST, 275.32 FEET; THENCE SOUTH 26 DEGREES 58 MINUTES 57 SECONDS EAST, 147.20 FEET TO THE SOUTH LINE OF SAID CORPORATE LIMITS OF VILLAGE OF WHEELING AND TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.
SAID PARCEL CONTAINING 0.465 ACRES MORE OR LESS

EXHIBIT B

Petition for Disconnection

P.I.N. 03-13-400-020
P.I.N. 03-13-400-050

PLAT OF LEGAL DESCRIPTION

50' 0' 50' 100'
Scale: 1" = 50'

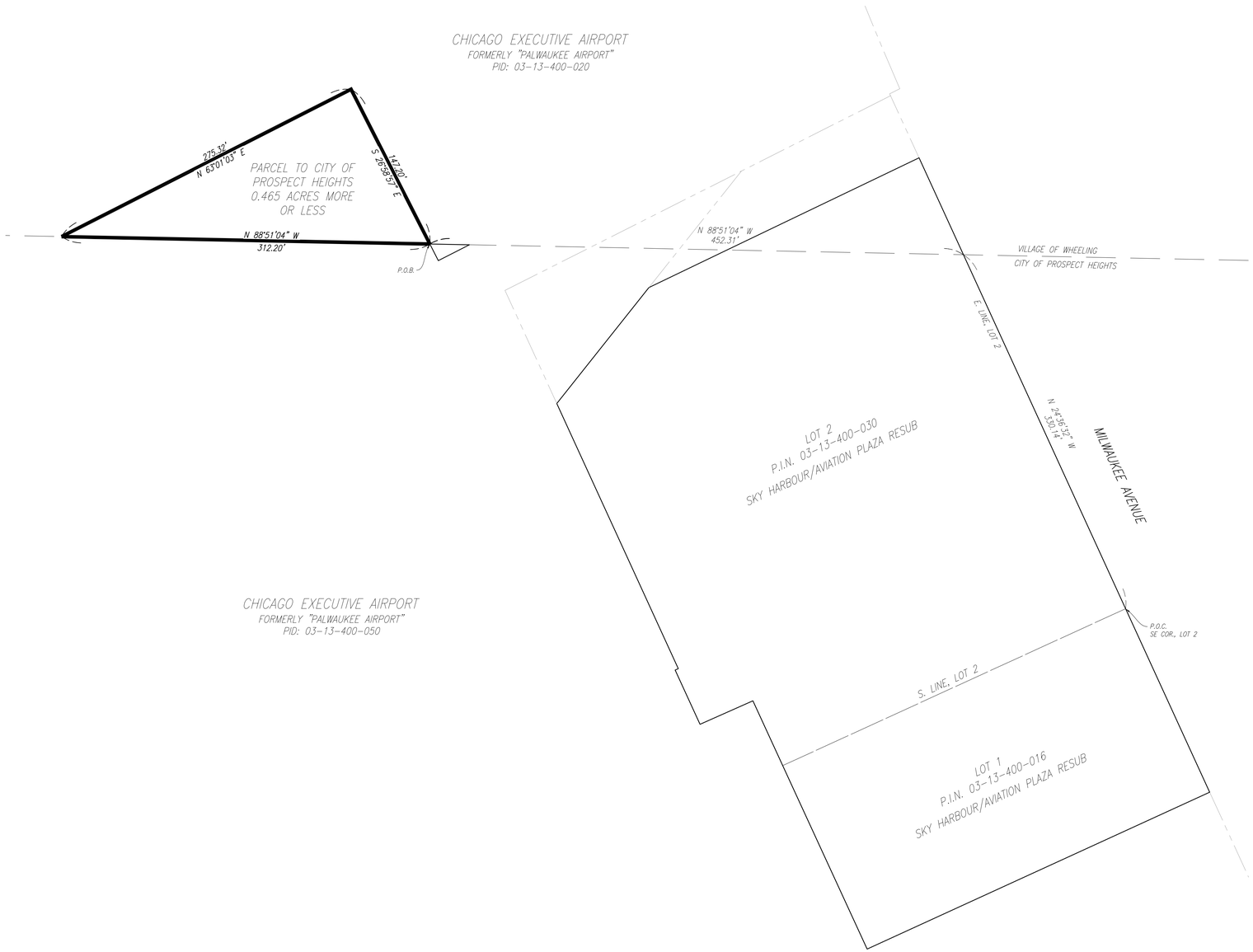
BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.

LEGEND

P.O.C.	POINT OF COMMENCEMENT
P.O.B.	POINT OF BEGINNING

LEGAL DESCRIPTION (CONVEYED FROM VILLAGE OF WHEELING TO CITY OF PROSPECT HEIGHTS)

THAT PART OF THE SOUTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF LOT 2 IN SKY HARBOUR / AVIATION PLAZA RESUBDIVISION, BEING A RESUBDIVISION OF PARTS OF LOTS 1 AND 2 IN GEORGE STRONG SUBDIVISION OF THE SOUTHEAST QUARTER AND THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AS DOCUMENT NO. 2527530068; THENCE NORTH 24 DEGREES 36 MINUTES 32 SECONDS WEST, ON THE EAST LINE OF SAID LOT 2, 330.14 FEET TO THE SOUTH LINE OF THE CORPORATE LIMITS OF VILLAGE OF WHEELING; THENCE NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID SOUTH LINE, 452.31 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID SOUTH LINE, 312.20 FEET; THENCE NORTH 63 DEGREES 01 MINUTES 03 SECONDS EAST, 275.32 FEET; THENCE SOUTH 26 DEGREES 58 MINUTES 57 SECONDS EAST, 147.20 FEET TO THE SOUTH LINE OF SAID CORPORATE LIMITS OF VILLAGE OF WHEELING AND TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.



NOTES:

1) THE DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF.
2) ANY DISCREPANCY IN MEASUREMENT DISCOVERED UPON THE GROUND SHOULD BE PROMPTLY REPORTED TO THE SURVEYOR FOR EXPLANATION OR CORRECTION.
3) FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON REFER TO YOUR ABSTRACT, DEED, CONTRACTS AND ZONING ORDINANCES.

State of Illinois)
) SS
County of Will)

I, Eric C. Cox, an Illinois Land Surveyor, do hereby certify that the existing conditions shown hereon is a true and correct representation thereof.

Dated this 8th day of April, 2026.

Eric C. Cox
Illinois Professional Land Surveyor No. 035-3604
Renewal Date: November 30, 2026
DLZ Industrial Surveying, Inc. Professional Design Firm 184002815

ERIC C. COX 3604 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

DLZ INDUSTRIAL SURVEYING, INC.
80 McDONALD AVENUE, UNIT D, JOLIET, IL 60431
TELEPHONE (815) 725-8840 FAX (815) 725-8849

PROSPECT HEIGHTS ILLINOIS
VILLAGE OF WHEELING
SKY HARBOUR

PARCEL TO CITY OF PROSPECT HEIGHTS
PLAT OF LEGAL DESCRIPTION

DRAWN: BDE	CHK'D. ECC
DESIGNED: -	APPRV'D: -
DATE: 4/8/2026	
SCALE: 1" = 50'	
PROJECT NUMBER	2650-7028-90

NO.	REVISION	BY	DATE

SHEET 1
OF 1
DRAWING NUMBER 7028LD

X:\PROJECTS\2026\2650\7028\0 CEO\ SKY HARBOUR\CALCULATIONS\7028LD.DWG

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

BEFORE THE VILLAGE PRESIDENT AND BOARD OF TRUSTEES
VILLAGE OF WHEELING
COOK COUNTY, ILLINOIS

BEFORE THE MAYOR AND CITY COUNCIL
CITY OF PROSPECT HEIGHTS
COOK COUNTY, ILLINOIS

PETITION FOR DISCONNECTION AND ANNEXATION

The undersigned property owners (collectively, the "***Petitioners***") hereby respectfully petition: (a) the Village of Wheeling (***"Wheeling"***) to disconnect the territory described in this Petition (the "***Property***"); and (b) to annex the Property to the City of Prospect Heights ("***Prospect Heights***"), all pursuant to Section 7-1-24 of the Illinois Municipal Code, 65 ILCS 5/7-1-24 ("***Section 7-1-24***"), and any other authority of Propsect Heights and Wheeling. In support hereof, Petitioners state as follows:

1. The City of Prospect Heights and the Village of Wheeling are presently the joint owners of record of that certain parcel located within Prospect Heights and Wheeling, Illinois (P.I.N. 03-13-400-050), (***"Parcel"***).

2. The Parcel is located in part within Prospect Heights and in part within Wheeling.

3. The Property consists of that portion of the Parcel located within Wheeling, as legally described in **Exhibit 1** to this Petition.

4. Petitioners are all the owners of the Property. There are no electors associated with the Property.

5. The Property is less than 160 acres.

6. The Property is contiguous to Prospect Heights.

7. Consistent with Section 7-1-24 and other statutory authority, Petitioners request that Wheeling adopt an ordinance disconnecting the Property from its corporate limits (the "***Disconnection Ordinance***"), which ordinance will be effective upon the adoption of an annexation ordinance to be enacted by Prospect Heights (the ***"Annexation Ordinance"***).

WHEREFORE, Petitioners respectfully request: (a) the corporate authorities of Wheeling to disconnect the Property; and (b) the corporate authorities of Prospect Heights to annex the Property, all in accordance with the provisions of this Petition and with applicable law.

The undersigned, being duly sworn on oath, states that the statements set forth in this Petition are true and correct.

Dated this _____ day of _____, 2026.

PETITIONERS:

THE VILLAGE OF WHEELING

By: _____
Print: PATRICK HORAHON
Title: VILLAGE PRESIDENT

Subscribed and sworn to before me this 20th day of JUNE, 2026.

_____
Notary Public

OFFICIAL SEAL
KAREN A HENNEBERRY
Notary Public, State of Illinois
Commission No. 1015059
My Commission Expires
August 08, 2029

THE CITY OF PROSPECT HEIGHTS

By: _____
Print: _____
Title: _____

Subscribed and sworn to before me this ____ day of _____, 2026.

_____
Notary Public

EXHIBIT 1

Legal Description of the Property

LEGAL DESCRIPTION
THAT PART OF THE SOUTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF LOT 2 IN SKY HARBOUR / AVIATION PLAZA RESUBDIVISION, BEING A RESUBDIVISION OF PARTS OF LOTS 1 AND 2 IN GEORGE STRONG SUBDIVISION OF THE SOUTHEAST QUARTER AND THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AS DOCUMENT NO. 2527530068; THENCE NORTH 24 DEGREES 36 MINUTES 32 SECONDS WEST, ON THE EAST LINE OF SAID LOT 2, 330.14 FEET TO THE SOUTH LINE OF THE CORPORATE LIMITS OF VILLAGE OF WHEELING; THENCE NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID SOUTH LINE, 452.31 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID SOUTH LINE, 312.20 FEET; THENCE NORTH 63 DEGREES 01 MINUTES 03 SECONDS EAST, 275.32 FEET; THENCE SOUTH 26 DEGREES 58 MINUTES 57 SECONDS EAST, 147.20 FEET TO THE SOUTH LINE OF SAID CORPORATE LIMITS OF VILLAGE OF WHEELING AND TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.
SAID PARCEL CONTAINING 0.465 ACRES MORE OR LESS

MEMORANDUM

DATE:	August 3, 2026
FROM:	James Ferolo, Village Attorney
SUBJECT:	Ordinance Annexing Certain Territory Contiguous to the City of Prospect Heights
DOLLAR AMOUNT:	N/A
BUDGETED:	No
BUDGET SOURCE:	N/A
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Economic Development

EXECUTIVE SUMMARY

Two ordinances are before the Board to approve the disconnection and annexation of small parcels of land from and to the Village of Wheeling to allow the Sky Harbour Development to develop with three of the four parcels located fully in Prospect Heights and one fully in the Village of Wheeling, pursuant to the Intergovernmental Planning Agreement approved by the Wheeling Village Board at its July 20 Regular Board meeting. The attached ordinance approves an annexation of parcels, and immediately preceding this ordinance on the August 3 Regular Meeting agenda is an ordinance to disconnect parcels.

MEMO

The Annexation and Disconnection Ordinances before the Board follow approval of the Intergovernmental Planning Agreement on July 20, 2026. The annexation and disconnection will slightly revise the Wheeling/Prospect Heights border in the area of the Sky Harbour FBO Development. The Agreement requires each community to disconnect and annex small parcels of land to allow the development to proceed, with three of the four development parcels being fully located in Prospect Heights and one of the four parcels being fully located in Wheeling. This addresses the issue of the development straddling the municipal boundary line. The development will be built under Prospect Heights' Building Code.

ORDINANCE NO. _____

ORDINANCE ANNEXING CERTAIN TERRITORY CONTIGUOUS TO THE CITY OF PROSPECT HEIGHTS

WHEREAS, the Village of Wheeling ("Village") is an Illinois home rule municipal corporation pursuant to Article VII, Section 6 of the Illinois Constitution and is located in Cook and Lake Counties, Illinois; and

WHEREAS, certain real property located within the City of Prospect Heights' (***"Prospect Heights"***) corporate limits lies along the boundary line between Prospect Heights and the Village, which property is legally described in **Exhibit A** and depicted in the Plat of Annexation to Village of Wheeling attached hereto as **Exhibit B** both attached to and, by this reference, made a part of this Ordinance (***"Property"***); and

WHEREAS, Prospect Heights and Wheeling have entered into that certain Intergovernmental Cooperative Planning Agreement dated July 27, 2026 ("***Agreement***"), ("***Agreement***"), which Agreement provides that the Property shall be disconnected from the City and annexed to Wheeling; and

WHEREAS, at least one-half of the electors and one-half of the owners of the Property have petitioned that the Property be disconnected from Prospect Heights and annexed to Wheeling, which petition is attached to and, by this reference, made a part of this Ordinance as **Exhibit C** ("***Petition for Disconnection***"); and

WHEREAS, pursuant to Section 7-1-24 of the Illinois Municipal Code, 65 ILCS 5/7-1-24, Prospect Heights is authorized to disconnect the Property pursuant to the Petition for Disconnection; and

WHEREAS, on July 27, 2026, the City Council of Prospect Heights adopted an Ordinance, disconnecting the Property from Prospect Heights (***"Prospect Heights Disconnection Ordinance"***);

WHEREAS, subject to the terms of the ordinance, Wheeling desires to annex the Property, pursuant to the Petition for Disconnection and Illinois Law, including without limitation Section 7-1-24 of the Illinois Municipal Code; and

WHEREAS, the Village Board has determined that annexation of the Property is in the best interest of the Village and its residents;

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

SECTION ONE: RECITALS. The foregoing recitals are incorporated into, and made a part of, this Ordinance as findings of the Village Board.

SECTION TWO: ANNEXATION OF THE PROPERTY. In accordance with and pursuant to Section 7-1-24 of the Illinois Municipal Code, the Property is hereby annexed to the Village of Wheeling.

SECTION THREE: RECORDING, FILING, AND REPORTING. The Village Clerk is hereby directed to:

A. In cooperation with the Prospect Heights City Clerk, cause a certified copy of this Ordinance, together with an accurate map of the annexed territory, to be recorded with the Recorder of Deeds of Cook County, Illinois, immediately following the recording of the Prospect Heights Disconnection Ordinance; and

B. Within 30 days after the effective date of this Ordinance, notify the Election Authorities, as defined in Section 7-1-1 of the Illinois Municipal Code, and the United States Post Office branches serving the Property, of the annexation of the Property by the Village, by registered or certified mail.

SECTION FOUR: EFFECTIVE DATE. This Ordinance will be in full force and effect from and after its passage, approval, and publication in pamphlet form in the manner provided by law, and upon its taking effect in accordance with Section Three of this Ordinance.

Trustee _____ moved, seconded by Trustee_____, that Ordinance No. _____ be passed, this 3rd day of August, 2026.

President Horcher	_____		
Trustee Krueger	_____	Trustee Ruffatto	_____
Trustee Lang	_____	Trustee Vito	_____
Trustee Papantos	_____	Trustee Vogel	_____

APPROVED this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

ATTEST: _____
Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

APPROVED AS TO FORM ONLY:

_____
Village Attorney

PUBLISHED in pamphlet form this 4th day of August, 2026, by order of the Corporate Authorities of the Village of Wheeling, Cook and Lake Counties, Illinois.

EXHIBIT A

Legal Description of the Property

LEGAL DESCRIPTION

THAT PART OF THE SOUTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF LOT 2 IN SKY HARBOUR / AVIATION PLAZA RESUBDIVISION, BEING A RESUBDIVISION OF PARTS OF LOTS 1 AND 2 IN GEORGE STRONG SUBDIVISION OF THE SOUTHEAST QUARTER AND THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AS DOCUMENT NO. 2527530068; THENCE NORTH 24 DEGREES 36 MINUTES 32 SECONDS WEST, ON THE EAST LINE OF SAID LOT 2, 330.14 FEET TO THE NORTH LINE OF THE CORPORATE LIMITS OF THE CITY OF PROSPECT HEIGHTS; THENCE NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID NORTH LINE, 418.80 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 63 DEGREES 01 MINUTES 03 SECONDS WEST, 29.55 FEET; THENCE NORTH 26 DEGREES 58 MINUTES 57 SECONDS WEST, 15.80 FEET TO THE NORTH LINE OF SAID CORPORATE LIMITS OF THE CITY OF PROSPECT HEIGHTS; THENCE SOUTH 88 DEGREES 51 MINUTES 04 SECONDS EAST, ON SAID NORTH LINE, 33.51 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS,

SAID PARCEL CONTAINING 0.005 ACRES MORE OR LESS

EXHIBIT B

Plat of Annexation to Village of Wheeling

EXHIBIT C

Disconnection Petition

P.I.N. 03-13-400-020
P.I.N. 03-13-400-050

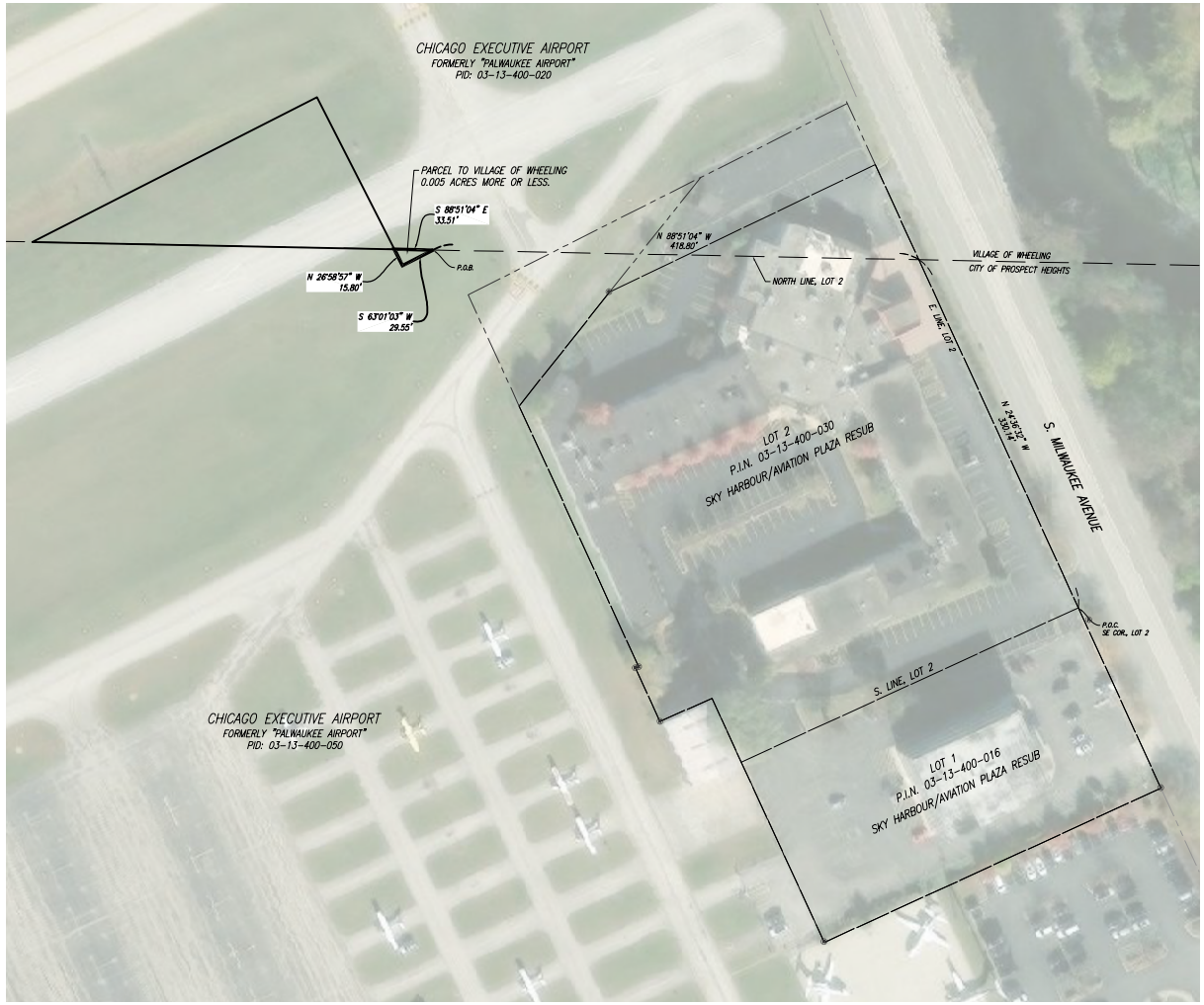
PLAT OF ANNEXATION TO VILLAGE OF WHEELING

50' 0' 50' 100'
Scale: 1" = 50'

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.

LEGEND

- ⊙ FOUND REBAR
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- — — — SECTION LINE
- ———— PROPERTY LINE
- ———— SURVEY BOUNDARY



LEGAL DESCRIPTION (CONVEYED FROM CITY OF PROSPECT HEIGHTS TO VILLAGE OF WHEELING)

THAT PART OF THE SOUTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF LOT 2 IN SKY HARBOUR / AVIATION PLAZA RESUBDIVISION, BEING A RESUBDIVISION OF PARTS OF LOTS 1 AND 2 IN GEORGE STRONG SUBDIVISION OF THE SOUTHEAST QUARTER AND THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AS DOCUMENT NO. 25275300685; THENCE NORTH 24 DEGREES 36 MINUTES 32 SECONDS WEST, ON THE EAST LINE OF SAID LOT 2, 330.14 FEET TO THE NORTH LINE OF THE CORPORATE LIMITS OF THE CITY OF PROSPECT HEIGHTS; THENCE NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID NORTH LINE, 418.80 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 63 DEGREES 01 MINUTES 03 SECONDS WEST, 29.55 FEET; THENCE NORTH 26 DEGREES 58 MINUTES 57 SECONDS WEST, 15.80 FEET TO THE NORTH LINE OF SAID CORPORATE LIMITS OF THE CITY OF PROSPECT HEIGHTS; THENCE SOUTH 88 DEGREES 51 MINUTES 04 SECONDS EAST, ON SAID NORTH LINE, 33.51 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

SAID PARCEL CONTAINING 0.005 ACRES MORE OR LESS

NOTES:

1) THE DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF.
2) ANY DISCREPANCY IN MEASUREMENT DISCOVERED UPON THE GROUND SHOULD BE PROMPTLY REPORTED TO THE SURVEYOR FOR EXPLANATION OR CORRECTION.
3) FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON REFER TO YOUR ABSTRACT, DEED, CONTRACTS AND ZONING ORDINANCES.

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

I, ERIC C. COX, AN ILLINOIS LAND SURVEYOR, DO HEREBY CERTIFY THAT THE EXISTING CONDITIONS SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION THEREOF.

DATED THIS 16th DAY OF JUNE, 2026.

ERIC C. COX
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-3604
RENEWAL DATE: NOVEMBER 30, 2026
DLZ INDUSTRIAL SURVEYING, INC. PROFESSIONAL DESIGN FIRM 184002815

ERIC C. COX 3604 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS

DLZ INDUSTRIAL SURVEYING, INC.
80 McDONALD AVENUE, UNIT D, JOLIET, IL 60431
TELEPHONE (815) 725-8840 FAX (815) 725-8849

WHEELING ILLINOIS

COOK ENGINEERING GROUP
SKY HARBOUR

PARCEL TO VILLAGE OF WHEELING
PLAT OF LEGAL DESCRIPTION

DRAWN: BDE	CHK'D. ECC
DESIGNED: -	APPRV'D: -
DATE: 6/16/2026	
SCALE: 1" = 50'	
PROJECT NUMBER	2650-7028-90

NO.	REVISION	BY	DATE

SHEET 1
OF 1
DRAWING NUMBER
7028LD

X:\PROJECTS\2026\2650\7028\90 CEG SKY HARBOUR\CALCULATIONS\7028LD.DWG

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

BEFORE THE MAYOR AND CITY COUNCIL
CITY OF PROSPECT HEIGHTS
COOK COUNTY, ILLINOIS

BEFORE THE VILLAGE PRESIDENT AND BOARD OF TRUSTEES
VILLAGE OF WHEELING
COOK COUNTY, ILLINOIS

PETITION FOR DISCONNECTION AND ANNEXATION

The undersigned property owners (collectively, the "***Petitioners***") hereby respectfully petition: (a) the City of Prospect Heights ("***Prospect Heights***") to disconnect the territory described in this Petition (the "***Property***"); and (b) the Village of Wheeling (***"Wheeling"***) to annex the Property, all pursuant to Section 7-1-24 of the Illinois Municipal Code, 65 ILCS 5/7-1-24 ("***Section 7-1-24***"), and any other authority of Propsect Heights and Wheeling. In support hereof, Petitioners state as follows:

1. The City of Prospect Heights and the Village of Wheeling are presently the joint owners of record of that certain parcel located in Prospect Heights and Wheeling, Illinois (P.I.N. 03-13-400-020), (***"Parcel"***).

2. The Parcel is located in part within Prospect Heights and in part within Wheeling.

3. The Property consists of that portion of the Parcel located within Prospect Heights, as legally described in **Exhibit 1** to this Petition.

4. Petitioners are all the owners of the Property. There are no electors associated with the Property.

5. The Property is less than 160 acres.

6. The Property is contiguous to Wheeling.

7. Consistent with Section 7-1-24 and other statutory authority, Petitioners request that Prospect Heights adopt an ordinance disconnecting the Property from its corporate limits (the "***Disconnection Ordinance***"), which ordinance will be effective upon the adoption of an annexation ordinance to be enacted by Wheeling (the ***"Annexation Ordinance"***).

WHEREFORE, Petitioners respectfully request: (a) the corporate authorities of Prospect Heights to disconnect the Property; and (b) the corporate authorities of Wheeling to annex the Property, all in accordance with the provisions of this Petition and with applicable law.

The undersigned, being duly sworn on oath, states that the statements set forth in this Petition are true and correct.

Dated this 20TH day of JULY, 2026.

PETITIONERS:

THE VILLAGE OF WHEELING

By: Patrick Horcher
Print: PATRICK HORCHER
Title: VILLAGE PRESIDENT

Subscribed and sworn to before me this 20TH day of JULY, 2026.

Notary Public

OFFICIAL SEAL
KAREN A HENNEBERRY
Notary Public, State of Illinois
Commission No. 1015059
My Commission Expires
August 08, 2029

THE CITY OF PROSPECT HEIGHTS

By: _____
Print: _____
Title: _____

Subscribed and sworn to before me this ____ day of _____, 2026.

_____
Notary Public

EXHIBIT 1

Legal Description of Property

LEGAL DESCRIPTION
THAT PART OF THE SOUTH HALF OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF LOT 2 IN SKY HARBOUR / AVIATION PLAZA RESUBDIVISION, BEING A RESUBDIVISION OF PARTS OF LOTS 1 AND 2 IN GEORGE STRONG SUBDIVISION OF THE SOUTHEAST QUARTER AND THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AS DOCUMENT NO. 2527530068; THENCE NORTH 24 DEGREES 36 MINUTES 32 SECONDS WEST, ON THE EAST LINE OF SAID LOT 2, 330.14 FEET TO THE NORTH LINE OF THE CORPORATE LIMITS OF THE CITY OF PROSPECT HEIGHTS; THENCE NORTH 88 DEGREES 51 MINUTES 04 SECONDS WEST, ON SAID NORTH LINE, 418.80 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 63 DEGREES 01 MINUTES 03 SECONDS WEST, 29.55 FEET; THENCE NORTH 26 DEGREES 58 MINUTES 57 SECONDS WEST, 15.80 FEET TO THE NORTH LINE OF SAID CORPORATE LIMITS OF THE CITY OF PROSPECT HEIGHTS; THENCE SOUTH 88 DEGREES 51 MINUTES 04 SECONDS EAST, ON SAID NORTH LINE, 33.51 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS,
SAID PARCEL CONTAINING 0.005 ACRES MORE OR LESS

MEMORANDUM

DATE:	August 3, 2026
FROM:	Leonard Becker, Economic Development Director
SUBJECT:	Resolution Consenting to a Cook County Class 6b Real Estate Tax Assessment Classification for the Property Located at 190 Carpenter Avenue, in the Village of Wheeling, Illinois
DOLLAR AMOUNT:	N/A
BUDGETED:	No
BUDGET SOURCE:	N/A
RECOMMENDED ACTION:	Approve
STRATEGIC PLAN THEME:	Economic Development

EXECUTIVE SUMMARY

An application for a Class 6b Real Estate Property Tax Classification based on the occupation of abandoned property that has been vacant for less than 12 consecutive months, with a purchase for value, special circumstances, and substantial rehabilitation as well as new construction, has been submitted by Qiu & Qu Holdings, Company (applicant), for the property at 190 Carpenter Avenue. If the Village Board favors the tax incentive, a resolution supporting the request for a Class 6b is needed for the applicant to file this request with Cook County.

MEMO

Background:

The property at 190 Carpenter Avenue consists of an approximately 65,308 square-foot industrial building on 175,050 square feet of land (4.01 acres). This property, built in 1976, is currently zoned I-I and a portion was formerly occupied as adjunct storage space for Bathing Brands, who vacated 35,137 square feet in early 2026. The applicant intends to occupy this portion of the building (54%), which will be split into two Property Identification Numbers (PIN's) for tax purposes only. The remaining 30,171 square feet of the building remains occupied by Beacon Fasteners, which distributes and warehouses high-performance screws. The portion of the property occupied by Beacon Fasteners will not receive the proposed 6b Property Tax Classification, although it will be part of the real estate purchase by the applicant.

The Applicant, Qui & Qu Holdings, plans to purchase, renovate, and lease to its affiliated company, Aroma International, Inc. (the "Occupant"), who will relocate and expand operations to a portion of the Subject Property from their current location in Elk Grove Village. Aroma International is a leading Japanese seafood supplier to restaurants and food service customers located across the Midwest and West Coast of the U.S. Currently, Aroma International operates out of a 20,000-square-foot property and, since the company is rapidly expanding, needs a new property that can accommodate its immediate and longer-term business operations.

If the 6b application is approved, the purchase will go forward, and the Applicant plans to invest between $1,500,000 and $ 2,000,000 to make various repairs and improvements required by the Occupant. The proposed improvements include:

- Addition of four new exterior loading docks
- Landscaping enhancements
- Exterior lighting replacement
- Installation of cold storage space
- Preparation of property to accommodate 10,000 square foot expansion
- General building maintenance

This work will begin immediately following the closing of the property, which is contingent on the applicant's approval of the 6b. The work is expected to begin in September 2026 and be completed by the fourth quarter of 2027. Furthermore,

additional investment will likely be made if further business expansion takes place.

Class 6b Classification:
The Applicant is requesting a Class 6b property tax classification based on re-occupation of abandoned property with purchase for value, special circumstances, and substantial rehabilitation. A Class 6b property tax classification will reduce the property's assessment rate to 10% for the first ten years, 15% on the eleventh year, and 20% on the twelfth year. The assessment rate without a Class 6b is 25%.

Fiscal Impact:
If the Applicant obtains a Class 6b, then 54% of the building will be reoccupied and an additional $1,500,000 in capital improvements will be invested in the property. With that notion, the following scenarios for 2025 are provided to help compare the potential property taxation:

- Scenario where the improvements are made and the incentive is applied to 54% of the property = $424,340
- Scenario where 54% of the building remains vacant and unused = $201,105

If the incentive is approved, over the 12-year period, the property is projected to generate $4,010,543 in additional real estate taxes compared to 54% of the property remaining vacant with no incentive.

In addition to the direct property tax, Aroma International currently employs 60 full-time employees. If the applicant proceeds to relocate and expand to the subject property, they will relocate all their operations and existing workers to Wheeling and anticipate adding 40 new employees to accommodate future growth within one to two years. The projected economic impact derived from the added employees and visitors at the new facility will provide increased sales tax revenue from expenditures at local gas stations, grocery stores, and restaurants, and other indirect contributions.

RESOLUTION 26 - _____

RESOLUTION CONSENTING TO A COOK COUNTY CLASS 6b REAL ESTATE TAX ASSESSMENT CLASSIFICATION FOR THE PROPERTY LOCATED AT 190 CARPENTER AVENUE IN THE VILLAGE OF WHEELING, ILLINOIS

WHEREAS, the Village of Wheeling (the "Village") desires to promote and preserve industrial uses in the Village; and

WHEREAS, the Cook County Assessor is operating under the Cook County Real Property Classification Ordinance (the "Ordinance") enacted by the Cook County Board of Commissioners, as amended from time to time, which provides industrial property owners, in certain cases, with a reduction in the assessed valuation of an industrial facility, in order to induce companies to locate or remain in Cook County; and

WHEREAS, the Village desires to promote industrial use and economic development; and

WHEREAS, Qiu & Qu Property Holdings, Company (the "Petitioner") has applied, or is applying, for a Class 6b Classification under the Ordinance, and has proven to the President and Board of Trustees of the Village (the "Village Board") that such Class 6b Classification is necessary to encourage occupancy of the specific real estate identified below (the "Subject Property"); and

WHEREAS, an Economic Disclosure Statement has been received and filed by the Village of Wheeling; and

WHEREAS, the Petitioner has provided an affidavit stating that it will comply with the Prevailing Wage requirements of Section 74-71(b) of this Division; and

WHEREAS, the Petitioner intends to purchase, renovate, and lease the Subject Property to its related entity, Aroma International, Inc. for processing, warehousing, distribution, and administrative uses; and

WHEREAS, the Petitioner plans to invest over $1,500,000 to make various improvements to upgrade and expand the facility to support processing, warehousing, distribution, and administrative operations, including adding four loading docks, improving the landscaping, general building updates, and adding cold storage facilities, as well as the construction of a new roughly 10,000 square feet to the building for additional warehouse and processing space; and

WHEREAS, the Village Board finds that special circumstances exist given the significant improvements necessary at the Subject Property; and

WHEREAS, the Village Board supports and consents to the filing of a Class 6b Classification application by the Petitioner, with the understanding that any occupant of the Subject Property must meet the Class 6b Classification qualifications; and

WHEREAS, the Village Board has determined that the granting of a Class 6b Classification to the Petitioner for the Subject Property would be beneficial to the Village;

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

SECTION 1: ELIGIBILITY The request of the Petitioner to have the Subject Property declared eligible for Class 6b Classification under the Ordinance is hereby granted, in that the Village Board has determined that the incentive provided by the said Class 6b Classification is necessary for the occupancy of the Subject Property.

SECTION 2: CONDITIONS The Village's support and consent to the Class 6b Classification is subject to and contingent upon the conditions, restrictions, and provisions set forth in this Section:

A. The Applicant shall obtain all necessary building and/or construction-related permits from the Village for the construction of the Proposed Improvements.

B. The Subject Property shall be reoccupied, operated, and maintained at all times in compliance with the applicable codes and ordinances of the Village.

C. All work performed on the Proposed Improvements must be conducted in a good and workmanlike manner, with due dispatch, and within any deadlines provided pursuant to this Agreement or set forth in the Village Code.

D. The total construction value for permits issued for the Proposed Improvements shall be no less than $1,500,000.

E. The construction work will be completed in accordance with Illinois Prevailing Wage guidelines.

F. The Project shall be completed by December 31, 2027. Upon completion of the Proposed Improvements, the Applicant will request that the Village inspect and approve the Improvements to confirm that the Proposed Development has been constructed in compliance with the plans approved by the Village.

SECTION 3: FINDINGS The Village Board finds that the Subject Property qualifies for purposes of the Class 6b Classification, and consents to the Subject Property being designated under the Class 6b Classification by the Cook County Assessor; with a copy of the Class 6b Classification application of the Petitioner, being attached hereto as Exhibit A and made a part hereof.

SECTION 4: APPROVAL The Village Board hereby supports, consents to, and approves the Class 6b Classification for the Subject Property, pursuant to the Ordinance; said Subject Property being described as follows:

LEGAL DESCRIPTION:

LOTS 1 AND 2 IN KNIGHT'S RESUBDIVISION OF LOTS 7, 8, AND 9 IN BLOCK 4 IN AMERILINE SUBDIVISION OF PART OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 11, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

PIN NUMBER: 03-11-304-010-0000
03-11-304-011-0000

COMMON ADDRESS: 190 Carpenter Avenue
Wheeling, Illinois 60090

SECTION 5: FILING The Village Clerk is hereby authorized and directed to forward a certified copy of this Resolution to the Office of the Cook County Assessor.

Trustee _____ moved, second by Trustee _____, that Resolution No. 26- _____ be adopted.

President Horcher	_____		
Trustee Krueger	_____	Trustee Ruffatto	_____
Trustee Lang	_____	Trustee Vito	_____
Trustee Papantos	_____	Trustee Vogel	_____

ADOPTED this 3rd day of August 2026, by the President and Board of Trustees of the Village of Wheeling, Illinois.

ATTEST: _____
Patrick Horcher, Village President

_____
Kathryn M. Brady, Village Clerk

EXHIBIT A

CLASS 6b APPLICATION

EXHIBIT A

The legal description of the property located at 190 Carpenter Ave. in Wheeling, Illinois (PINs: 03-11-304-010/-011 part of) is below

LOTS 1 AND 2 IN KNIGHT'S RESUBDIVISION OF LOTS 7, 8, AND 9 IN BLOCK 4 IN AMERILINE SUBDIVISION OF PART OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 11, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.