



COVER SHEET

Proposal Submitted By:

Contractor's Name

Contractor's Address

City

State

Zip Code

STATE OF ILLINOIS

Local Public Agency

County

Section Number

Route(s) (Street/Road Name)

Type of Funds

Proposal Only Proposal and Plans Proposal only, plans are separate

Submitted/Approved

For Local Public Agency:

For a County and Road District Project

Submitted/Approved

Highway Commissioner Signature & Date

Submitted/Approved

County Engineer/Superintendent of Highways Signature & Date

For a Municipal Project

Submitted/Approved/Passed

Signature & Date

Official Title

Department of Transportation

Released for bid based on limited review

Regional Engineer Signature & Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook		Shoe Factory Road Water Main

NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of Village, Clerk, Village Hall
Name of Office
1900 Hassell Rd, Hoffman Estates, IL 60169 until 10:00 AM on 07/08/26
Address Time Date

Sealed proposals will be opened and read publicly at the office of Village, Clerk, Village Hall
Name of Office
1900 Hassell Rd, Hoffman Estates, IL 60169 at 10:00 AM on 07/08/26
Address Time Date

DESCRIPTION OF WORK

Location	Project Length
Shoe Factory Road Water Main Rehabilitation	1,900 Ft. (0.35 Mi.)

Proposed Improvement
 Rehabilitation of approximately 1,900 linear feet of ductile iron water main with cured-in-place pipe (CIPP) in a Public Utility Easement (PUE) from Shoe Factory Road to I-90

1. Plans and proposal forms will be available in the office of
To prospective bidders by contacting Baxter & Woodman 815-444-3332 (Contact - Jack Worsham - jworsham@baxterwoodman.com) or via the Village's website for no additional fee. Direct all questions to Jack Worsham. The deadline for questions is 4:00 PM on Thursday, July 2. No pre-bid conference will be held.

2. Prequalification
 If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and two originals with the IDOT District Office.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.
4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
 - a. Local Public Agency Formal Contract Proposal (BLR 12200)
 - b. Schedule of Prices (BLR 12201)
 - c. Proposal Bid Bond (BLR 12230) (if applicable)
 - d. Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
 - e. Affidavit of Illinois Business Office (BLR 12326) (do not use for project with Federal funds)
5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook		Shoe Factory Road Water Main

PROPOSAL

1. Proposal of _____ Contractor's Name _____

Contractor's Address _____

2. The plans for the proposed work are those prepared by Baxter & Woodman, Inc. and approved by the Department of Transportation on _____.

3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the " Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.

4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.

5. The undersigned agrees to complete the work within _____ working days or by 04/15/27 unless additional time is granted in accordance with the specifications.

6. The successful bidder at the time of execution of the contract will _____ be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond of check shall be forfeited to the Awarding Authority.

7. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the products of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid may be declared unacceptable if neither a unit price nor a total price is shown.

8. The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.

9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

10. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will _____ be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond, if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to: Village Treasurer of Hoffman Estates.

The amount of the check is _____ (_____).

Attach Cashier's Check or Certified Check Here

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number _____.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook		Shoe Factory Road Water Main

CONTRACTOR CERTIFICATIONS

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.
2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense, or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or Local government. No corporation shall be barred from contracting with any unit of State or Local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that, it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter or record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Hoffman Estates	Cook		Shoe Factory Road Water Main

SIGNATURES

(If an individual)

Bidder Signature & Date

Business Address

City State Zip Code

(If a partnership)

Firm Name

Signature & Date

Title

Business Address

City State Zip Code

Insert the Names and Addresses of all Partners

(If a corporation)

Corporate Name

Signature & Date

Title

Business Address

City State Zip Code

Insert Names of Officers

President

Attest:

Secretary

Secretary

Treasurer

Instructions for BLR 12200 - Page 1 of 2

Note: Instructions should not be included when the form is submitted.

This form is used when a Local Public Agency desires to solicit bids for a project.

This form shall be included in all formal contract proposals for bidding purposes. This includes both maintenance and construction projects. Refer to Chapter 12 of the Bureau of Local Roads and Streets Manual for more information. Specifications must be included in the proposal packet, along with plans, if applicable. For signature requirements refer to Chapter 2, Section 3.05(b) of the BLRS Manual.

Proposal Submitted By:

Contractor's Name (to be completed by Bidder) Contractor will insert their name when submitting a proposal packet for bid.

Contractor's Address (to be completed by Bidder) Contractor will insert legal address when submitting a proposal packet for bid.

Local Public Agency Insert the name of the Local Public Agency (LPA) soliciting bids for the project.

County Insert the name of the County in which the LPA is located.

Section Number Insert the section number assigned to this project without dashes.

Route(s) (Street/Road Name) Insert the name of the street or route on which the project is located. For projects that include several streets or routes, insert various.

Type of Funds Insert the type of funds being used to fund this project.

Proposal Only/Proposal and Plans/
Proposal Only, Plans are separate Check the box that is applicable to this packet.

For a County and Road District Project

Highway Commissioner Signature For a Road District Project, the Highway Commissioner shall sign and date here.

County Engineer/Superintendent of Highways For a road district project or county project, the County Engineer/Superintendent of Highways shall sign and date here.

For a Municipal Project

Signature and Date For a Municipal project, the appropriate municipal official shall sign and date here.

Official Title Insert the title of the official who signed above.

Department of Transportation

Regional Engineer Signature and Date Upon a limited review, the Regional Engineer shall sign and date here.

NOTICE TO BIDDERS

Name of Office Insert the name of the office where proposals will be received.

Address Insert the address of the office where sealed proposals will be received.

Time Insert the time, including AM or PM, that proposals will be accepted until.

Date Insert the date that proposals will be accepted until.

Name of Office Insert the name of the office where proposals will be open and read.

Address Insert the address of the office where proposals will be open and read.

Time Insert the time, including AM or PM, that proposals will be read.

Date Insert the date that proposals will be read.

Location Insert the location description of the project.

Length Insert the length of project in miles.

Proposed Improvement Insert the description of the proposed improvement.

1 Office of Insert the name of the office, along with the address where plans and proposals will be available.

2 Prequalification Check this box if prequalification is or will be required.

Instructions for BLR 12200 - Page 2 of 2

PROPOSAL

- | | | |
|----|--|--|
| 1 | Proposal of (to be completed by Bidder) | Insert the bidder's name and address. |
| 2 | Prepared by | Insert the name of the LPA consulting engineering company who prepared the plans. |
| | Approved | Insert the date of approval of the plans by the Department of Transportation. |
| 5 | Working Days | Insert the number of working days for the project as provided in the estimate of time, is applicable. |
| | Completion Date | Insert the completion date, if applicable. |
| 6 | Section Number (to be completed by Bidder) | If applicable, insert the section number without dashes of the proposal packet where the proposal guaranty can be found. |
| 7 | | The LPA will complete this with the contract bond requirement. |
| 11 | | The LPA will complete as it applies to the acceptance of bid bonds. |
| | Payable to | Insert the name of the LPA. |
| | Amount of Check | Insert the amount of the check in words followed by numerical format in (). |
| | Attach Cashier's Check or Certified Check Here | Insert the BLR 12201. This will need to be completed by the bidder. |
| | | Attached a certified or cashier's check here unless the proposal guaranty is found in another proposal packet. If so, indicate the packet section number where the guarantee can be found. |

Signatures

- | | |
|--------------------------------|---|
| If an individual | If the bidder is an individual, the bidder shall sign, date, and insert their address on the line below. |
| If a partnership | |
| Firm Name and Address | If the bidder is a partnership, the Firm name shall be inserted. The appropriate firm individual shall sign, date, and insert the firm's address on the line below. |
| Name and Addresses of Partners | On a separate line, insert each partner's name and address. |
| If a corporation | |
| Corporate Name | Insert the corporate name of the bidder. This is to be followed by the signature of the corporate president. |
| Business Address | Insert the business address for the corporation. |
| Insert the Names of Officers | Insert the name of the corporation's president, Secretary and Treasurer. |
| Attest | The secretary of the corporation shall sign and date here. |

A minimum of four (4) signed originals must be submitted to the Regional Engineer's District office.

Following the Regional Engineer's approval, distribution will be as follows:

- Local Public Agency Clerk (2)
- Engineer (Municipal, Consultant or County)
- District File



Schedule of Prices

Contractor's Name

Contractor's Address

City

State Zip Code

Local Public Agency

Section Number

Route(s) (Street/Road Name)

Schedule for Multiple Bids

Combination Letter	Section Included in Combinations	Total

Schedule for Single Bid

(For complete information covering these items, see plans and specifications.)

Item Number	Items	Unit	Quantity	Unit Price	Total
1	PRECONSTRUCTION VIDEO RECORDING	LSUM	1		
2	ABANDON EXISTING WATER MAIN AND APPURTENANCES	LSUM	1		
3	TRENCH BACKFILL - WATER MAIN	FOOT	84		
4	DUCTILE IRON WATER MAIN, OPEN CUT, 16-INCH RJT	FOOT	109		
5	CURED-IN-PLACE PIPE (WATER MAIN), 16-INCH	FOOT	1,801		
6	CONNECTION TO WATER MAIN (NON-PRESSURE), 16-INCH	EACH	2		
7	WATER VALVES, 16-INCH	EACH	2		
8	VALVE VAULTS, 6-FOOT	EACH	2		
9	FIRE HYDRANTS	EACH	1		
10	FIRE HYDRANT BARREL EXTENSION	FOOT	8		
11	EXPLORATION TRENCH (SPECIAL)	FOOT	100		
12	PARKWAY RESTORATION	SQ YD	1,133		
13	HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT	SQ YD	12		
14	AGGREGATE SURFACE COURSE REMOVAL AND REPLACEMENT, 8"	SQ YD	3,160		
15	DUST CONTROL WATERING	UNIT	40		
16	NON-SPECIAL WASTE DISPOSAL (IDOT ITEM 66900200)	CU YD	10		
17	SOIL DISPOSAL ANALYSIS (IDOT ITEM 66900530)	EACH	1		
18	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN (IDOT ITEM 66901001)	LSUM	1		
19	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT (IDOT ITEM 66901003)	LSUM	1		
20	REGULATED SUBSTANCES MONITORING (IDOT ITEM 66901006)	CAL DAY	5		
21	FILTER ASSEMBLY SUPPLY AND INSTALLATION	EACH	3		

22	PERIMETER EROSION BARRIER INSTALLATION AND MAINTENANCE	FOOT	2,100		
23	TREE ROOT PRUNING	EACH	5		
24	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	2		
25	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	2		
26	TREE TRUNK PROTECTION	EACH	5		
27	TEMPORARY FENCE	FOOT	45		
Bidder's Total Proposal					

1. Each pay item should have a unit price and a total price.
2. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price or total price is shown.



Local Public Agency Proposal Bid Bond

Local Public Agency: Village of Hoffman Estates; County: Cook; Section Number: []

WE, _____ as PRINCIPAL, and _____ as SURETY, are held jointly, severally and firmly bound unto the above Local Public Agency (hereafter referred to as "LPA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids, whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LPA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LPA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LPA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LPA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LPA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ Day of _____ Month and Year

Principal

Company Name: []; Signature & Date: []; Title: []

Company Name: []; Signature & Date: []; Title: []

(If Principal is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed.)

Surety

Name of Surety: []

Signature of Attorney-in-Fact Signature & Date: []

STATE OF IL
COUNTY OF

I _____, a Notary Public in and for said county do hereby certify that

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ Day of _____ Month and Year

(SEAL, if required by the LPA)

Notary Public Signature & Date: []

Date commission expires _____

Local Public Agency

County

Section Number

Village of Hoffman Estates

Cook

ELECTRONIC BID BOND

Electronic bid bond is allowed (box must be checked by LPA if electronic bid bond is allowed)

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LPA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Company/Bidder Name

--

Signature & Date

--

Title

--

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2026

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-22) (Revised 1-1-26)

SUPPLEMENTAL SPECIFICATIONS

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204 Borrow and Furnished Excavation	3
207 Porous Granular Embankment	4
211 Topsoil and Compost	5
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406 Hot-Mix Asphalt Binder and Surface Course	7
407 Hot-Mix Asphalt Pavement (Full-Depth)	9
420 Portland Cement Concrete Pavement	10
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Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, IL 62764

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	1	2	3	4	Awards Pending	Accumulated Totals
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						
Uncompleted Dollar Value if Firm is the Prime Contractor						
Uncompleted Dollar Value if Firm is the Subcontractor						
Total Value of All Work						

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases, Surfaces						
Highway, R.R., Waterway Struc.						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning, Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
Totals						

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code." Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others.

For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	Awards Pending
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted					

Notary

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this _____ day of _____, _____

(Signature of Notary Public)

My commission expires _____

(Notary Seal)

Add pages for additional contracts



Local Public Agency	County	Section Number
Village of Hoffman Estates	Cook	

Check this box for lettings prior to 01/01/2026

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	87
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	90
3	<input type="checkbox"/> EEO	91
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	101
5	<input type="checkbox"/> Required Provisions - State Contracts	106
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	112
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	113
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	114
9	<input type="checkbox"/> Construction Layout Stakes	115
10	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	118
11	<input type="checkbox"/> Subsealing of Concrete Pavements	120
12	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	124
13	<input type="checkbox"/> Pavement and Shoulder Resurfacing	126
14	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	127
15	<input type="checkbox"/> Polymer Concrete	129
16	<input type="checkbox"/> Reserved	131
17	<input type="checkbox"/> Bicycle Racks	132
18	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	134
19	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	136
20	<input type="checkbox"/> English Substitution of Metric Bolts	137
21	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	138
22	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	139
23	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	147
24	<input type="checkbox"/> Reserved	163
25	<input type="checkbox"/> Reserved	164
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The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

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Village of Hoffman Estates

Cook

The following Special Provision supplement the "Standard Specifications for Road and Bridge Construction", adopted

January 1, 2022

, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specification and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of the above named section, and in case of conflict with any parts, or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

[Empty rectangular box for special provisions]

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SUMMARY OF QUANTITIES

PLANSET

HIGHWAY STANDARDS

SOIL BORING REPORT

LPC-663

LOCATION OF PROJECT

The work for this project is located within a Public Utility Easement spanning from Shoe Factory Road to I-90. A location map is included within the Project Plans.

DESCRIPTION OF WORK

The work consists of furnishing all labor, materials, equipment, and other incidentals necessary for the completion of approximately 1,900 lineal feet of CIPP water main, open-cut ductile iron water main construction, aggregate path removal and replacement, and miscellaneous items of work in accordance with the Plans, Standard Specifications, and these Special Provisions.

MAINTENANCE GUARANTEE

The Contractor shall execute and deliver to the Village of Hoffman Estates, before final payment will be issued, a written warranty, in a form satisfactory to the Village, which guarantees that the work is in accordance with the Contract Documents and will not be defective. This warranty shall guarantee this work for a period of 1-year from the date of acceptance of the work and final payment by the Village of Hoffman Estates.

If within this guarantee period, any work is found to be defective, as determined by the Village, the Contractor shall promptly, without cost to the Village of Hoffman Estates, correct or repair such defective work, or remove and replace the defective work in accordance with the Special Provisions for the items in question.

The Contractor shall furnish a warranty bond in an amount equal to five percent (5%) of the contract amount, or \$25,000, whichever is greater, by a surety satisfactory to the Village to guarantee Contractor's warranty to repair defective work.

COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS BOND

The work in the right-of-way of the Cook County Department of Transportation and Highways (CCDOH) shall comply with all requirements of the "Permit for Work." The Contractor, before starting work, shall deposit with the CCDOH Permit Office insurance as required on Form "A" attached to the permit. The contractor must deposit a Performance and Right Of Way Restoration Bond in the amount of \$20,000.00, with said Permit Office prior to the start of work within the County Right Of Way.

COMPLETION DATE

The Contractor shall execute the contract within five working days after contract award by the Village Board.

All work, including parkway restoration, substantial completion shall be completed by **November 15, 2026** and final completion by **April 15, 2027**, unless additional time is granted in accordance with Article 108.08 of the Standard Specifications.

The exact time of seeding and watering shall be coordinated by the Contractor with the Engineer.

Any extensions to the contract completion dates must be requested by the Contractor in writing a minimum of two weeks prior to the originally established completion date deadline.

Should the Contractor fail to complete all work by this date, the Contractor shall be liable to pay the Village liquidated damages per calendar day in accordance with Article 108.09 of the Standard Specifications.

The time required for removal of temporary erosion control items once seed establishes root, need not be concluded by the completion date, but shall be concluded not more than 30 calendar days after or as approved by the Village.

WORKING HOURS

Per Village Ordinance, the Contractor shall perform all work in the Village of Hoffman Estates as follows:

7:00 A.M. to 6:00 P.M. Monday through Friday

8:30 A.M. to 5:00 P.M. Saturday

No work will be permitted on Sundays or holidays or at other times outside the above working hours without permission of the Engineer. Contractor shall contact the Engineer 48 hours in advance to schedule work on Saturdays.

SEQUENCE OF WORK

The Contractor shall submit to the Village a pre-planned sequence of construction for approval including project start and end dates. This sequence of construction shall be approved by the Village before work starts. All work shall be completed within the working days allowed.

STATUS OF UTILITIES (D1)

Effective: June 1, 2016

Revised: April 1, 2025

Utility companies and/or municipal owners located within the construction limits of this project have provided the following information regarding their facilities and the proposed improvements. The tables below contain a description of specific conflicts to be resolved and/or facilities which will require some action on the part of the Village's contractor to proceed with work. Each table entry includes an identification of the action necessary and, if applicable, the estimated duration required for the resolution.

UTILITIES TO BE ADJUSTED

Conflicts noted below have been identified by following the suggested staging plan included in the contract. The company has been notified of all conflicts and will be required to obtain the necessary permits to complete their work; in some instances, resolution will be a function of the construction staging. The responsible agency must relocate, or complete new installations as noted below; this work has been deemed necessary to be complete for the Village’s contractor to then work in the stage under which the item has been listed.

No conflicts to be resolved.

UTILITIES TO BE WATCHED AND PROTECTED

The areas of concern noted below have been identified by following the suggested staging plan included for the contract. The information provided is not a comprehensive list of all remaining utilities, but those which during coordination were identified as ones which might require the Village’s contractor to take into consideration when making the determination of the means and methods that would be required to construct the proposed improvement. In some instances, the contractor will be responsible to notify the owner in advance of the work to take place so necessary staffing on the owner’s part can be secured.

No facilities requiring extra consideration.

The following contact information is what was used during the preparation of the plans as provided by the owner of the facility.

Agency/Company Responsible to Resolve Conflict	Name of Contact	Phone	E-mail Address
AT&T Distribution	Tom Laskowski	630.573.5643	g05256@att.com
Comcast	Martha Gieras	(224) 229-5862	martha_gieras@cable.comcast.com
Adesta	Ryan Aguirre	-	Ryan.Aguirre@aus.com
COMED	Virginia Rodriguez	630.396.8226	PlanSubmittalsandMapRequests@exeloncorp.com
NICOR Gas	Paul A. Eggen	-	X2PAEGGE@southernco.com
Verizon	-	-	INVESTIGATIONS@VERIZON.COM
West Shore Pipe Line	-	-	agt_comm@irth.com
Windstream	Lisa A. Zingula	800.289.1901	Lisa.Zingula@windstream.com

The above represents the best information available to the Village and is included for the convenience of the bidder. The days required for conflict resolution should be considered in the bid as this information has also been factored into the timeline identified for the project when setting the completion date. The applicable portions of the Standard Specifications for Road and Bridge Construction shall apply.

Estimated duration of time provided above for the first conflicts identified will begin on the date of the executed contract regardless of the status of the utility relocations. The responsible agencies will be working toward resolving subsequent conflicts in conjunction with contractor activities in the number of days noted.

The estimated construction duration must be part of the progress schedule submitted by the contractor. A utility kickoff meeting will be scheduled between the Village, Village's contractor, and the utility companies when necessary.

The contractor is responsible for contacting JULIE prior to any excavation work. Please note that IDOT electrical facilities are not part of the one-call locating services, such as JULIE.

If the contract requires the services of an electrical contractor, it is the contractor's responsibility, at their own expense, to locate existing electrical facilities before commencing work. For contracts that do not require an electrical contractor, the contractor may request one free locate of electrical facilities. Additional locate requests will be at the contractor's expense.

Please note, the marking of underground facilities does not absolve the contractor of their responsibility to repair or replace any facilities damaged during construction at their expense.

PRECONSTRUCTION VIDEO RECORDING

This work consists of providing digital color video and audio recording of construction areas prior to the start of construction, including coverage of all areas that will be affected by the construction or installation of pipelines such as driveways, fences, trees or plantings, or other items that may be damaged or have to be removed and replaced as a part of the construction.

Each video shall begin with current date, project name, and Owner, followed by descriptions of the general location, street names, addresses, and data that describes location and subject of viewing. Panning rates and zoom-in or zoom-out rates shall be controlled to provide clarity of object during playback. The finished product shall be provided with bright, sharp, clear pictures and accurate colors free from distortion or other forms of picture imperfection. The audio shall have proper volume and clarity. All recording shall be done at good times of visibility, and when no more than 10 percent of snow or fallen leave cover is present. The areas shall not be recorded earlier than 6 months prior to the start of construction.

The recording shall be submitted to the Owner or the Owner's Engineer in a digital format acceptable to the Owner for review and acceptance prior to commencement of any construction.

Any areas found not acceptable to the Owner shall be re-filmed at no additional cost to the contract. The final recording shall be transferred onto DVD and shall be presented in a manner acceptable to the Owner.

Basis of Payment. This work will be paid for at contract lump sum price for PRECONSTRUCTION VIDEO RECORDING.

MOBILIZATION

This work shall be done in accordance with Section 671 of the Standard Specifications except as modified herein.

671.02 Basis of Payment. Revise this article to read:

“671.02 Basis of Payment. Mobilization will not be paid for separately but rather shall be included in the cost of the items for which this work applies.”

CLEARING

This work shall be done in accordance with Section 201 or the Standard Specifications, except as modified herein.

Clearing work, within Village easements, shall consist of removal and disposal of such obstructions as shrubs, bushes, saplings, trees and stumps of a diameter less than three (3) inch. Clearing work shall also include removal and disposal or relocation/stockpiling of existing hindrances (boulders, markers, ties, etc.) interfering with pavement reconstruction and utility installation work.

All clearing work shall be considered included in the contract unit prices bid for the various items involved.

TRENCHING, BACKFILLING AND COMPACTING FOR SANITARY SEWER AND WATER MAIN

SUMMARY: Trench, backfill, and compact shown on the plans, as specified herein and as needed for installation of water main and sanitary sewer in accordance with the “Standard Specification for Water and Sewer Main Construction in Illinois”.

QUALITY ASSURANCE: Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

Use equipment adequate in size, capacity, and numbers to accomplish the work in a timely manner.

Comply with requirements of governmental agencies having jurisdiction.

GRANULAR PIPE BEDDING AND COVERING MATERIALS: Provide well graded, washed, mixture of gravel or crushed stone aggregate free of clay, loam, dirt, calcareous or other foreign matter conforming to the IDOT "Standard Specifications" gradation No. CA 7, or the Standard Specifications for Water and Sewer Construction in Illinois, with the following gradation:

<u>Sieve Size</u>	<u>Percent Passing</u>
1 1/2-inch	100%
1-inch	90 -100%
1/2-inch	30 - 60%
No. 4	0 -10%

1. For flexible thermoplastic pipes including sewer pipes, sewage force mains, and water mains: Comply with ASTM D2321, Class I or II as modified below.
 - a. Exclude sharp angular granular materials.
 - b. Limit maximum particle size to 1/2-inch (IDOT CA 15 or CA 16).
 - c. Do not use Class II materials in wet conditions.
2. For rigid pipes comply with ASTM C12, Bedding Class B.

EXCAVATED BACKFILL MATERIALS IN NON-PAVED AREAS: Provide soil materials free from organic matter, rubble, or frozen material, containing no rocks or lumps over 6 inches, and with not more than 15 percent of the rocks or lumps larger than 2 inches.

GRANULAR BACKFILL MATERIALS: Provide either sand or granular material.

Sand: Well graded, free from organic matter, cohesionless, complying with the IDOT Standard Specification gradation No. FA 6.

Granular Material: Use 100% crushed stone or gravel complying with Section 1004 in the IDOT Standard Specifications for gradation No. CA-6 and No. CA-7 per the Trench Backfill Detail on the Drawings.

TEMPORARY AGGREGATE PAVEMENT MATERIAL: Provide well graded, 100 percent crushed gravel or crushed stone aggregate free of clay, loam, dirt, calcareous or other foreign matter conforming to the IDOT "Standard Specifications" gradation No. CA-6.

GEOTECHNICAL FABRIC: Provide geotechnical fabric for separation of granular material and native soil in areas where trench is over excavated to remove unsuitable materials.

1. Acceptable manufacturers:
 - a. Mirafi: 160N.
 - b. Synthetic Industries: 601.
 - c. Amaco: 4551.

WATER MAIN REPAIR:

1. Repair water main or water services damaged during construction utilizing products of type and manufacturers as approved by the Owner.
2. Pipe couplings for joining of sections of cut water main where a section of new pipe is used to replace a broken pipe.
 - a. Acceptable manufacturers:
 - (1) Dresser Style 38.
 - (2) Smith-Blair CC-441.
 - (3) Or equal.
3. Repair clamps for broken or cracked pipe and sealing of existing corporation stop opening.
 - a. Use full-circle single band all stainless steel clamps.
 - b. Acceptable manufacturers:
 - (1) Dresser Style 360.
 - (2) Smith-Blair 200 Series.
 - (3) Or equal.
 - c. Replace damaged service corporation stops by installation of full-circle single band all stainless steel clamps, with service outlet, matching manufacturer's and styles used for repair of a cracked pipe.

GENERAL CONSTRUCTION REQUIREMENTS:

1. Protection of existing facilities:
 - a. Unless shown to be removed, protect existing structures, conduits, active utility lines and all other facilities shown on the Plans or otherwise made known to the Contractor. If damaged, repair, replace, or restore to a condition equal to or better than the original condition at no additional cost to the Contract.
 - b. Notify all persons, firms, corporations, or agencies owning or using any existing structures, conduits, or utilities which may be affected by the Work prior to the start of construction.
 - c. Make arrangements to locate, maintain, protect, and/or relocate facilities in order to complete the Work.
 - d. Make such exploration as is necessary to determine the exact location of underground utilities.
 - e. Exercise care during the progress of work in the area to prevent damage to the utilities.
 - f. Whenever it becomes necessary to relocate underground gas mains, telephone conduit, or electrical lines or support or relocate utility poles, the utility company involved will make such relocation or provide pole support. Notify the utility company promptly.
 - g. Whenever it becomes necessary to relocate water or other pipes or conduits in direct conflict with the proposed pipe (exclusive of culverts) which are not shown on the Plans, obtain the direction from the Engineer

for the relocation. Compensation will be allowed only for such quantities as determined by the Engineer.

- h. Do not obstruct accessibility of fire hydrants.
- i. Maintain access to driveways at all times except when actual trench construction is crossing a driveway.

TRENCHING:

- 1. Do not advance trench excavation more than 50 feet ahead of completed pipe installation except as approved by the Engineer.
- 2. Provide and maintain sheeting, shoring, and bracing necessary for protection of the Work, adjacent property, and for the safety of personnel.
 - a. Remove temporary sheeting and bracing after backfilling to an elevation which will prohibit caving of exposed sidebanks.
 - b. Fill voids left by the withdrawal of sheeting with compacted sand.
 - c. The Engineer may direct that supports in trenches be cut off at any specific elevation to protect adjacent facilities or property. Compensation for support left in place will be negotiated.
 - d. No extra payment will be made for the supports left in place without the direction of the Engineer.
 - e. Do not leave supports within 4 feet of the ground or pavement surface in place without the permission of the Engineer.
- 3. Provide pumping, bailing, wellpointing, and construct ditches and dikes required to dewater and drain ground water, sewage, or stormwater to keep the excavation and site dry for the completion of the Work.
- 4. Excavation:
 - a. Excavate by open cut unless otherwise indicated on the Plans.
 - b. Excavate trenches to the depths and grades necessary for the pipelines with allowances for bedding material.
 - c. Over excavate organic, soft, spongy, or otherwise unsuitable soils found at or below the bottom of the trench to meet firm subsoil or as determined by the Engineer.
 - d. Comply with the following maximum trench widths at the top of pipelines:

<u>Nominal Pipe Sizes (inches)</u>	<u>Trench Widths (inches)</u>
12 or smaller	30
14 - 18	36
20 - 24	42
27 - 30	48
33 and larger	1-1/3 times pipe OD

EXCAVATION FOR APPURTENANCES:

1. Excavate for manholes and similar structures to the depths as shown on the Plans and to a distance sufficient to leave at least 12 inches clear between outer surfaces and the embankment or shoring that may be used to hold and protect the banks.
2. Over depth excavation beyond depths indicated on the Plans that has not been directed will be considered unauthorized. Fill with sand, gravel, or lean concrete as determined by the Engineer, and at no additional cost to the Contract.

BEDDING AND COVERING OF PIPE: Bedding is defined as the shaped and tamped material which supports the pipes. Covering is defined as the compacted material which protects and covers the pipes. Provide continuous bedding and covering for underground pipelines, except where concrete encasement, concrete cradles, boring or jacking are indicated.

Pipe bedding:

1. Provide compacted granular pipe bedding and covering material with a minimum thickness of 4 inches under pipe barrels and 2 inches under bells.
2. Wherever the trench is over-excavated due to removal of unsuitable material, refill the trench bottom to the bottom of the pipe bedding with granular material conforming to the IDOT "Standard Specifications" gradation No. CA 1 as determined by the Engineer.
 - a. Unless otherwise specified to be paid for, removal and replacement of material, or unsuitable material, to a depth of one foot below pipe barrel outside diameter is considered incidental to installation of the pipe.
3. Wherever the trench is over excavated to remove unsuitable material, install geotechnical fabric between native soil and granular material:
 - a. Install fabric to cover bottom and sides of trench to heights as follows:
 - (1) For all flexible pipe and rigid pipe 24-inch and smaller: to envelop entire bedding and covering material and overlap 1-foot at the top.
 - (2) For rigid pipe 27-inch and larger: to cover bedding material and from sides of trench to edge of pipe.
 - (3) Where undercut is of a depth that requires more than one piece of fabric to provide envelope, provide sewn seams between sections of fabric.
4. Wherever two or more pipes or conduits are placed in the same trench or excavated area, backfill the trench with granular pipe bedding and covering material to support the uppermost pipe or conduit.

Pipe covering:

1. Following placement of pipe and inspection of joints, provide compacted granular pipe bedding and covering material for the full width of the trench to the following levels unless otherwise shown on the Plans:
 - a. For pipes sizes 24-inch and smaller, except flexible thermoplastic pipe: To 4 inches above the top of the pipe.

2. Place granular pipe bedding and covering material in uniform loose layers not exceeding 8 inches thick.
 - a. Compact each layer firmly by ramming or tamping with tools approved by the Engineer in such a manner as not to disturb or injure the pipe to yield a minimum density of 95 percent of maximum dry density as determined according to ASTM D1557 or AASHTO-T180.
3. Where trench is widened by installation of structures or jacking pits, extend bedding and covering materials to total width of excavations.

TRENCH BACKFILLING AND COMPACTING: Backfill trench from the top of pipe cover to topsoil, paving subgrade, or foundation level.

For trench in lawns, parkways, and other improved areas not subject to vehicular traffic:

1. Backfill with excavated materials in uniform loose layer not exceeding 12 inches thick.
2. Compact each layer of trench backfill materials to yield a minimum of 85 percent of maximum dry density as determined according to ASTM D1557 or AASHTO-T180.

For trench in streets, parking areas, driveways, sidewalks, curb and gutter, or within 2 feet of any proposed curb and gutter, sidewalk, or other paved areas:

1. Backfilling with granular backfill materials:
 - a. Place in uniform loose layer not exceeding 12 inches thick and compact with vibrating roller or equivalent.
 - b. Water jetting may not be used in lieu of vibratory compaction when approved by the Engineer.
 - c. Fill the top of trenches with temporary aggregate pavement material to the depth(s) required to provide aggregate surface, binder and surface courses of the depths shown on the Plans.
2. Compacting requirements:
 - a. Compact each layer of trench backfill materials to yield a minimum density of 90 percent of maximum dry density as determined according to ASTM D1557 or AASHTO T-180.
 - b. Determine the density of compacted backfill at intervals of not more than 500 feet at locations selected by the Engineer.
 - c. Provide the services of an independent testing laboratory for the density tests.
3. Maintain temporary pavement level with adjoining pavement surfaces until the permanent pavement is placed.

BACKFILL AND BEDDING FOR APPURTENANCES:

1. Provide 3 inches of sand or granular bedding material unless otherwise shown on the Plans.
2. Do not backfill until new concrete has properly cured, and any required tests have been accepted.
3. Backfill in lawns and landscaped areas with excavated materials.
4. Backfill in pavement around manholes, catch basins, inlets, valve vaults, and other structures as determined by the Engineer with special granular backfill materials.

FINISH GRADING:

1. Provide finish grading and filling to achieve the lines and grades.
2. Slope grades to drain away from structures.
3. Replace culverts damaged during the construction with new culverts. Temporary culverts may be provided if drainage improvements are part of the Contract.
4. Except where mounding over trenches is specified, grade smooth areas of the Work including previously grassed areas that have been disturbed, and adjacent transition areas.
5. Fill and compact depressions from settlement and round tops of embankments and breaks in grade.
6. Protect newly graded areas from traffic and erosion. Repair settlement or washing away that may occur prior to surface restoration and re-establish grades to the required elevations at no additional cost to the Contract.
7. Remove unsuitable and surplus excavated materials not used for backfilling from the project site.
8. Do not deposit on public or private property without written permission from property owner or authorized representative of appropriate public agency.

WATER MAIN REPAIR:

1. Whenever existing water mains and water service pipes are damaged during construction, stop the pipe installation work and immediately repair the damaged portion of the existing piping.
2. Contact the Engineer and Owner immediately to report the location and extent of the damage.
3. Repair the water main with methods complying with the "Standards for Water and Sewer Main Construction In Illinois", and any additional requirements required by the Owner.
4. Utilize only materials of repair as noted in the products section of this specification or as dictated by the Owner.
5. Where water services have been stripped or pulled from the water main, replace the corporation stop as instructed by the Engineer, and replace the water service pipe to a point as determined by the Engineer.
6. Comply with disinfection requirements as dictated by the Owner.
7. Do not cover the repair until work is inspected and approved by Engineer.

ABANDON EXISTING WATER MAIN AND APPURTENANCES

Description. This work shall be in accordance with the Special Provision for “WATER DISTRIBUTION SYSTEM”, and “TRENCHING, BACKFILLING AND COMPACTING FOR SANITARY SEWER AND WATER MAIN” and shall consist of the abandonment and partial removal of existing valve vaults, water mains, water valves and fire hydrants. This work shall include saw-cutting, pavement removal and disposal; excavation; removal and disposal of waste excavated materials, temporary line stops, removing existing vault frames and covers, capping or plugging abandoned water mains, removing valve vaults, concrete thrust blocks, water valves and fire hydrants; filling excavations and structures; and backfilling with and compacting of granular trench backfill material.

Basis of Payment. This work will be paid for at the lump sum unit price for ABANDON EXISTING WATER MAINS AND APPURTENANCES.

TRENCH BACKFILL – WATER MAIN

Description. Trench backfill for water main shall be placed in all trenches crossing driveways, sidewalks, and all proposed and existing roadways, from the top of bedding and covering material to the top of the existing surface. Installation of the trench backfill shall be in accordance with Special Provision for “TRENCHING BACKFILLING AND COMPACTING FOR SANITARY SEWER AND WATER MAIN” and the detail shown on the Plans. The material for the top 12 inches shall be CA-6, 100% crushed gravel or crushed stone.

All backfill within Cook County right-of-way shall be sand complying with the IDOT Standard Specification gradation No. FA 6.

Method of Measurement. Trench backfill for water main will be measured in lineal feet along the centerline of the pipe from the point of installation to end of installation, regardless of depth of the pipe or width of the trench.

Basis of Payment. This work will be paid for at the contract unit price per lineal foot for TRENCH BACKFILL – WATER MAIN.

WATER DISTRIBUTION SYSTEM

SUMMARY: Provide the water distribution system as shown on the Plans, specified herein, and needed for a complete and proper installation, and in accordance with the latest edition of the “Standard Specifications for Water and Sewer Main Construction in Illinois”, except as revised herein.

Provide labor, materials, tools, chemicals and equipment necessary to perform the pressure and leakage tests and disinfection.

SUBMITTALS: Furnish two (2) copies of bacteriological test reports.

IRON AND STEEL MATERIALS: All iron and steel materials used on this project shall be domestically manufactured or produced and fabricated in accordance with Article 106.01 of the Standard Specifications.

BRASS AND BRONZE ALLOYS: All brass and bronze alloys supplied with the products shall contain less than 15 percent zinc, unless otherwise specified.

1. Brass that will come in contact with potable water shall contain no more than 0.25% lead.
 - a. Brass fittings shall be marked with industry standard marking to indicate the amount of lead (no lead, low lead, etc.) in the brass.
 - b. Brass for service saddles may contain more than 0.25% lead to improve ductility of the saddles.

PIPE AND FITTINGS: Provide ductile iron pipe materials in size 4-inch through 24-inch unless otherwise indicated on the Plans.

Ductile Iron Pipe:

Provide ductile iron pipe complying with ANSI A21.51, special thickness Class 52, with joints complying with ANSI A21.11. Use cement lining complying with ANSI/AWWA, C104/A21.4 standard thickness.

1. Exterior Coating:
 - a. The exterior of ductile iron pipe shall be coated with a layer of arc-sprayed zinc per ISO 8179.
 - b. The mass of the zinc applied shall be 200 grams per square meter of pipe surface area.
 - c. A finishing layer of asphaltic coating shall be applied over the zinc coating.
 - i. The mean dry film thickness of the finishing coat shall not be less than 3 mils, with a local minimum not less than 2 mils.
 - d. The coating system shall conform in every respect to ISO 8179-1 "Ductile Iron Pipes – External zinc-based coating – Part 1: Metallic zinc with finishing layer. Second edition 2004-06-01."
2. In areas where petroleum contamination is present (at locations shown on the Drawings), use Buna-Nitrile gaskets.
3. Provide restrained joint pipe system, where indicated on the Plans, that utilizes one of the following methods:
 - a. Lock rings welded into place around pipe barrel.
 - b. Bolted rings installed around pipe barrels that fit inside pipe bells.
 - c. Gaskets which include stainless steel locking segments vulcanized into the gasket.
 - d. Mechanical joint retainer gland systems that provide locking segments shaped to pipe barrel that do not create stress points on pipe barrel.
 - (1) Do not use setpoint type retainer glands.

- e. Acceptable products:
 - (1) Meg-A-Lug System.
 - i. Series 1100 Megalug for MJ to pipe.
 - ii. Series Series 1700 Megalug Harness for push on joint.
 - iii. As recommended by manufacturer for connection to existing pipes
 - (2) American Fastite, Flex-ring, Lok-ring, and MJ coupled joint.
 - (3) McWane Ductile Tyton Joint – Type A or Type B, and Sure Stop gaskets.
 - (4) U.S. Pipe TR-Flex Gripper
 - (5) Griffin Bolt Lok or Snap Lok
 - (6) Field Lok or Fast Grip Gasket Systems.
 - (7) Acceptable Manufactures of joint restraint for PVC fittings:
 - i. EBAA Iron Sales
 - ii. Ford Meter Box Company, Series 1500
 - iii. Tyler Union – TUF Grip

Fittings:

- 1. Use ductile iron fittings with mechanical joint complying with ANSI A21.10 or A21.53.
- 2. Use cement lining complying with ANSI A-21.4, standard thickness.
- 3. Bolts and nuts:
 - a. Use Corten bolts and nuts, or
 - b. Use Cor-blue bolts and nuts, or
 - c. Use A-304 stainless steel bolts with nuts and washers of series 300 stainless steel per ASTM A194.
- 4. Provide restrained joint type fittings compatible with pipe system utilized, as specified by the pipe manufacturer.
 - a. Mechanical joint retainer gland systems that provide locking segments shaped to pipe barrel that do not create stress points on pipe barrel.
 - b. Acceptable products:
 - Meg-A-Lug System.
 - i. Series 2000PV Megalug for MJ to Pipe (C-900).
 - ii. Series 1500 Megalug Harness for push on joint (C-900).
 - iii. Series 1900 Megalug for MJ to Pipe (C-909).
 - iv. Series 1900 Harness for push on joint (C-909).
 - v. As recommended by the manufacturer for connection to existing pipes

Polyethylene sheet: Comply with ANSI/AWWA C105/A21.5:

- 1. Thickness: Three layers of co-extruded linear low-density polyethylene (LLDPE) fused into a single thickness of not less than 8 mils.
- 2. The inside surface of the polyethylene wrap to be in contact with the pipe exterior shall be infused with a blend of anti-microbial biocide to mitigate microbiologically influenced corrosion and volatile corrosion inhibitor to control galvanic corrosion.

3. Markings: The following information will be clearly marked on the sheet at minimum increments of 2 feet along its length:
 - a. Manufacturer's name or trademark.
 - b. Year of manufacture.
 - c. Minimum film thickness and material (LLDPE).
 - d. Applicable range of nominal pipe diameter size(s).
 - e. Warning – Corrosion Protection – Repair Any Damage.

Conductivity appurtenances:

1. Provide wedges of serrated silicon bronze or #10-copper cable and tapping devices specifically designed for this purpose.
2. Use devices provided by the pipe manufacturer.
3. Standard mechanical, Field-Lok, or Meg-a-lug joints do not provide conductivity.

PVC or HDPE pipe tracer wire.

1. Provide wire to be used for electronic locating of PVC and HDPE pipe installed by open cut method.
2. Materials:
 - a. Wire: No. 10 AWG, single strand, single conductor, insulated copper wire, colored per code requirements.
 - b. Type: PE (45 mils) or UF (60 mils), 600 volt.
 - c. Tape: Polyethylene coated duct tape.

VALVES: Provide valves with clockwise closing direction.

Gate valves:

1. Valves 4-inch to 24-inch size:
 - a. Design in accordance with AWWA C509 (cast iron body), or AWWA C515 (ductile iron body) bronze fitted, resilient wedge and seat type with non-rising stem and O-ring packing.
 - b. Provide gear operator for valves 14-inch and larger.
2. Provide ANSI Class 125 flange ends or mechanical joint ends for valves installed in vaults as indicated on the Plans.
 - a. Provide restrained type joints for all mechanical joint end valves.
3. Valves shall have stainless steel bolts at the packing gland and bonnet.
4. Valve bodies shall be ductile iron with the name or make of manufacturer, size and working pressure plainly cast in raised letters.
5. Valves shall be manufactured in United States
6. Valves shall be equipped with 2-inch square operating nut that shall open to the left (counterclockwise) with the word "open" in ½-inch letters or larger and arrow (minimum 2-inches long) cast on the nut to indicate direction of opening.
7. Install in vertical position, supported on solid concrete block.

8. Acceptable valve manufacturers:
 - a. Clow F-6100;
 - b. Mueller No. A-2370-20;
 - c. American Flow Control series 2500;
 - d. Or approved equal.

VALVE VAULTS:

Precast:

1. Provide precast reinforced concrete manhole sections, bottoms, and flat top slabs complying with ASTM C478 unless otherwise indicated on the Plans.
2. Provide eccentric cone section unless otherwise indicated on the Plans.
3. Provide precast reinforced concrete monolithic or separate base.
4. Design flat slab tops for AASHTO HS20-44 wheel loading.

Concrete: Provide 4,000 psi concrete using Type I Portland Cement complying with ASTM C150.

Mortar: Mix one part Portland Cement to three parts fine aggregate.

Joints for precast sections:

1. Provide joints of either flexible watertight rubber gaskets or preformed bituminous plastic gaskets consisting of a homogeneous blend of refined hydrocarbon resins and plasticizing compound reinforced with inert mineral filler.
 - a. Acceptable preformed gasket products:
 - (1) K.T. Snyder Co., RAM-NEK.
 - (2) Concrete Sealants, Type CS-208.
 - (3) Or approved equal.

Steps:

1. Provide steps with a minimum width of 12 inches and a minimum projection of 5 inches.
2. Use steps consisting of copolymer polypropylene plastic with continuous one-half inch steel reinforcement as manufactured by M.A. Industries, Inc. or cast iron steps, Neenah R-1980-I, or approved equal.

Frames and covers: Provide cast iron frames and covers with heavy duty, indented top with solid self-sealing lids and machined bearing surfaces, stamped with the words "VILLAGE OF HOFFMAN ESTATES" and "WATER".

1. Acceptable products:
 - a. Neenah R-1713;
 - b. East Jordan 1050Z1
 - c. or approved equal.

Flexible pipe connectors: Provide flexible rubber gasket collar for connecting pipe to the manhole.

1. Comply with ASTM C-923
2. For pipe 24 inches and smaller, use PSX gasket system by Press-Seal Gasket Corporation, or approved equal.
3. For pipe 30-inch and larger, use resilient gasket by A-LOK Products, Inc., or equal.

FIRE HYDRANTS:

1. Comply with AWWA C502.
2. Paint fire hydrants in red as approved by the Municipality.
3. Match the fire hydrants generally installed in the Municipality's water system.
 - a. Acceptable manufacturers:
 - (1) Mueller A-423
 - (2) Or approved equal.

Materials:

1. Provide compression type with a 5-1/4-inch and minimum size main valve assembly, O-ring seals, two 2-1/2-inch hose nozzles, and a 4-1/2-inch pumper nozzle with National Standard threads, a National Standard operating nut, and an above-ground break flange.
2. Provide a 6-inch auxiliary resilient seat type gate valve with restrained type joints or bituminous coated metal tie rods between the valves and the tee fittings.
 - a. Provide and install nuts, bolts, and tie rods matching the nuts and bolts used for fittings.
3. Provide valve boxes with cover marked with the word "WATER".
 - a. Bituminous coated carbon steel valve extension stems and 2-inch square operating nuts 2 inches below cover.
4. Provide valve box stabilizers on all fire hydrant auxiliary valves.
 - a. Acceptable manufacturers:
 - (1) Alberico
 - (2) American
 - (3) Adaptor, Inc.
 - (4) Or approved equal.
5. Hydrants shall open counterclockwise and shall be furnished with a mechanical joint inlet.

All materials to be manufactured in the United States.

RESTRAINED FLANGE ADAPTOR:

1. Provide a ductile iron flange adaptor dual ring system with bolt circles compatible with 125#/Class 150 bolt pattern.
 - a. Provide adaptor with individual actuated gripping wedges that utilize torque limiting screws to insure proper initial set.
 - b. Set screw "only" restraining adaptors are not acceptable.

- c. Provide system that allows joint deflection of up to 5°.
 - d. Provide a fluoropolymer coating to the wedge and wedge assembly and powder coating to the restraint body.
2. Acceptable Manufacturers:
- a. Series 2100 Magaflange by Ebaa Iron;
 - b. Or approved equal.

CONSTRUCTION REQUIREMENTS

PIPE INSPECTION, HANDLING, STORAGE, AND INSTALLATION: Install in accordance with pipe manufacturer's recommendations.

Ductile iron water mains and appurtenances:

- 1. Comply with AWWA C-600.
- 2. Protect pipe and fittings by loose wrapping or tubing with polyethylene sheet.
 - a. Place polyethylene sheet around the entire circumference of the pipe, tie or tape sheet securely to prevent displacement during backfilling.
 - b. Comply with ANSI/AWWA A21.5-99/C105 regarding installation of polyethylene protection.
- 3. Install conductivity through joints by use of conductivity wedges or copper cable and taps.
 - a. Use two (2) wedges per joint for pipes 12 inches or smaller, and four (4) wedges per joint for pipe sizes larger than 12 inches.
 - b. Use number of copper cable connectors per joint as recommended by the pipe manufacturer.

OPERATION OF APPURTENANCES: Village of Hoffman Estates Public Works Department employees only shall operate any existing water distribution appurtenances (i.e. water valves, hydrants, etc.).

WATER DISRUPTIONS: A minimum forty-eight (48) hours advance notice to the Owner's Public Works Department is required for any water disruptions.

CONNECTIONS TO EXISTING WATER MAINS:

- 1. Make connections to existing water mains.
- 2. Use non-pressure connections, except where pressure connections are shown on the Plans or required by conditions at the time of construction.
- 3. Make one connection at a time except as approved by the Engineer.

PIPE RESTRAINING SYSTEMS:

General:

- 1. Provide protection from movement of water main piping, plugs, caps, tees, valves, hydrants, and bends of 11-1/4 degrees or greater.

2. Provide concrete thrust blocks at all locations unless restrained joint type fittings are utilized.
3. Where restrained joint type fittings are called for on the Plans, but cannot be utilized, provide concrete thrust blocks.

Concrete thrust blocks:

1. Provide precast or cast-in-place concrete thrust blocking with a compressive strength of 3000 psi in 28 days.
2. Locate thrust blocking between solid ground and the fitting to be anchored.
3. Unless otherwise shown or directed by the Engineer, place the base and thrust bearing sides of thrust blocking directly against undisturbed earth.
4. Sides of thrust blocking not subject to thrust may be placed against forms. Place thrust blocking so the fitting joints will be accessible for repair.
5. When conditions prevent the use of concrete thrust blocks, use restrained joints of an approved type.

Restrained type pipe, fittings, and valves:

1. Provide restrained joint pipe to distance indicated on the Plans, or not less than a minimum of two pipe lengths on each side of the valve or fitting to be restrained.
 - a. Utilization of restrained joint pipe as a substitute to concrete thrust blocking is done at the Contractor's option at no additional cost to the Owner.
 - b. Only restrained joint pipe indicated on the Plans will be paid for as a separate Pay Item.
 - c. Restraining gaskets or locking systems utilized on straight runs of push pipe are not considered as fittings, and are paid for as part of the Pay Item for restrained joint type pipe.

SEWER CROSSING: Separate water mains and water service lines from sanitary sewer, storm sewers, combined sewers, house sewer service connections, and drains in accordance with the "Standard Specifications for Water and Sewer Main Construction in Illinois".

Water mains:

1. Wherever water mains cross storm sewers, sanitary sewers, or sewer service connections:
 - a. Lay the water main so that its invert is at least 18 inches above the top of the sewer.
 - b. Maintain this vertical separation for that portion of the water main located within 10 feet horizontally of any sewer or drain crossed.
 - c. Center a length of water main pipe over the sewer to be crossed with joints equidistant from the sewer or drain.
2. When it is impossible to obtain the minimum 18 inches vertical separation, or when it is necessary for the water main to pass under a sewer or drain:
 - a. Construct the sewer or drain of pressure pipe, conforming to the specification for water main materials.

- b. Extend the sewer construction on each side of the crossing until the normal distance from the water main to the sewer or drain is at least 10 feet.
- c. As an alternate, install either the water main or sewer inside a casing or carrier pipe for a distance of 10 feet measured perpendicular to the sewer on each side of the crossing.
3. Where a water main must cross under a sewer:
 - a. Maintain a vertical separation of 18 inches between the invert of the sewer and the crown of the water main.
 - b. Support the sewer or drain line to prevent settling and breaking the water main.

Water service lines: Comply with the requirement of water main separation.

Sewer manholes: Do not install water line through sewer manhole.

VALVE VAULTS:

General:

1. Install pipe through valve vault as shown on the Detail.
2. Make vault watertight with use of flexible manhole connectors as per the Detail.

Steps:

1. Provide each manhole over 3 feet deep with individual wall-mounted steps as shown on the manhole detail.
2. Comply with the requirements of governmental agencies having jurisdiction.

Jointing:

1. Use flexible watertight gaskets for each joint.
2. Trim smooth and free from surplus gaskets.

Frames and covers: Unless otherwise shown on the Plans or as determined by the Engineer, set frames and covers:

1. In paved areas: So that the top of the solid cover will be flush with the finished pavement; or
2. In unpaved areas: To drain away from the valve vault.
3. With flexible watertight gaskets.
4. With grade rings not to exceed 8 inches.

FIRE HYDRANT INSTALLATION:

1. Install fire hydrants plumb with the lowest hose connection at least 18 inches but not more than 26 inches above the finished grade ground level. Set fire hydrant bases and auxiliary valves on a precast concrete blocks to provide firm support for the base.

2. Brace the bases with solid concrete blocking between the base and undisturbed trench wall to counteract the reaction thrust of water pressure at the base. Provide mechanical joint anchoring fittings or approved restrained joints.
3. Brace the fire hydrant barrels during backfilling. Do not block the drain hole in fire hydrant.
4. Place a minimum of 1/2 cubic yards of washed coarse stone at and around the base for proper drainage. Cover stone with plastic before backfilling.
5. Place and compact backfill materials in 6-inch layers around the fire hydrant and auxiliary gate valve.
6. Cover new fire hydrant with black plastic bag until new system is in service.

POLYETHYLENE WRAPPING OF DUCTILE IRON PIPE AND APPURTENANCES:

1. Comply with requirements of ANSI/AWWA C105/A21.5-99.
 - a. Place polyethylene sheet around the entire circumference of the pipe, tie or tape sheet securely to prevent displacement during backfilling.
 - b. Wrap all water mains, fittings, valves, fire hydrant leaders, fire hydrants, and service lines.
 - (1) Wrap copper service lines to a point 3 feet from center of water main.
 - (2) Do not block fire hydrant weep hole.

TESTING AND INSPECTING:

Sequence of installation: Install new water main but do not install corporation stops, services lines, curb stops, or service boxes until after: conducting pressure test, leakage test, disinfection of new water main, flush main, and acceptance for putting new main into service. Finish by installing corporation stops, service lines, curb stops and service boxes, and test and disinfect prior to connection to existing service lines.

Hydrostatic tests:

1. Devise a method for disposal of waste water from hydrostatic tests, and for disinfection, as approved in advance by the Engineer.
2. Where any section of water main is provided with concrete thrust blocking for fittings, do not make hydrostatic tests until at least 5 days after installation of concrete thrust blocking, unless otherwise approved by the Engineer.

Pressure tests:

1. Subject the new water mains and service lines, including valves and fire hydrants, to a hydrostatic pressure of 125 psi.
2. Hold the test pressure for a duration of one hour without pressure loss or further pressure application.
3. Carefully examine exposed pipe, joints, fittings, and valves.
4. Replace or remake joints showing visible leakage.

5. Remove cracked pipe, defective pipe, and cracked or defective joints, fittings and valves. Replace with sound material and repeat the test until results are satisfactory.
6. Make repair and replacement without additional cost to the Contract.
7. Use only solid stainless full-body repair clamps as approved by the Engineer.

Leakage test:

1. Conduct a metered leakage test after the pressure test has been satisfactorily completed.
2. Duration of each leakage test: At least 24 hours.
3. During the test, subject water lines to a normal water pressure of the Municipality's water system.
4. Install water meter approved by the Engineer. Provide double check valve assembly between water meter and existing water main.
5. Maximum allowable leakage: As recorded by a meter approved by the Engineer, with leakage to not exceed the number of gallons per hour (gph) as determined by the following formula:
$$\text{gph} = LD (P^{1/2})/133,200$$

in which: L = Length of pipe tested, in feet
 D = Diameter of water main, in inches
 P = Average pressure, in pounds per square inch (gage)
6. Should any test of pipe disclose leakage greater than the maximum allowable amount, locate and repair the defective joint or joints and then repeat the 24-hour metered leakage test until the leakage is within the specified allowance, and at no additional cost to the Contract.

Time for making test:

1. Except for joint material setting and curing time for thrust blocks, pipelines jointed with rubber gaskets, mechanical, or push-on joints, or couplings may be subjected to hydrostatic pressure, inspected, and tested for leakage any time after partial completion of backfill.
2. Perform the pressure and leakage tests satisfactorily prior to requesting the Engineer to witness the official tests.
3. Notify the Engineer at least 48 hours prior to the time of the requested official tests.
4. Depending on traffic conditions, public hazard, or other reasons, the Engineer may direct when to conduct the tests, and may order the tests to be made in relatively short sections of water mains.

PRELIMINARY FLUSHING:

1. Prior to disinfection, flush main as thoroughly as possible.
 - a. Flush main until water runs clear.
 - b. Provide a minimum flushing velocity of 2.5 feet per second in the water main.

- c. Provide temporary valve(s), multiple fire hydrants, pipe and erosion control measures to allow adequate flushing of the water transmission system and to prevent disturbance or damage to areas at and downstream of the flushing water discharge location.
2. Coordinate time of flushing with Owner and Engineer, at least 72 hours in advance of flushing.
 - a. Do not initiate flush without Owner's permission.

DISINFECTION: After the water main work has been satisfactorily completed and tested, disinfect the work in accordance with AWWA C651, and "Standard Specifications for Water and Sewer Main Construction in Illinois" as modified by these specifications.

Forms of applied chlorine:

1. Apply chlorine by gas feed or solution feed chlorinator, as approved by the Owner.
 - a. Provide effective diffusion of the gas or solution into the water within the water main.
 - b. Provide means for preventing the backflow of water into the feeder.
2. Chlorine solution.
 - a. Apply solution of sodium hypochlorite into one end of the section of main to be disinfected while filling the main with water.

Requirement of chlorine:

1. Initial chlorine solution in pipe: At least 50 mg/l, but not more than 100 mg/l.
2. Retain the disinfecting solutions in the work for at least 24 hours
3. Chlorine residual after the retention period: At least 25 mg/l.

Flushing and testing:

1. Following chlorination, flush treated water thoroughly from the water mains until the chlorine concentration in the water flowing from the main is no higher than generally prevailing in the Municipality's system, or less than 1 mg/l.
2. After flushing, collect two water samples on successive days at least 24 hours apart in sterile bottles treated with sodium thiosulfate. Notify the Engineer and the Owner to witness sample collection.
3. Deliver the samples to a State approved laboratory for bacteriological analysis.
4. Should the initial disinfection result in an unsatisfactory bacterial test, repeat the chlorination procedure until satisfactory results are obtained
5. The Owner will provide the water for initial flushing and testing only. Compensate the Owner for water used in subsequent flushing and testing.

Swabbing:

1. Flush and swab the piping, valves, and fittings that must be placed in service immediately and cannot be disinfected by the above specified methods, with 5 percent solution of calcium hypochlorite prior to assembly.
 - a. Secure the Engineer's approval before applying this method of disinfection.

DECHLORINATION

1. Comply with AWWA C651-05 requirements to neutralize the residual chlorine in new water mains.
2. After new water mains have passed disinfection requirements, utilize portable diffusing dechlorinators that utilize sulfur dioxide or other chemicals listed in Appendix C of AWWA C651 to lower chlorine residuals prior to discharge to the drainage system. Lower concentration to 1 mg/l or less.

ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES:

1. Abandon water mains indicated on the Drawings as "to be abandoned" only after all requirements for testing and disinfection have been satisfied and all existing services have been connected to new water mains.
2. Provide concrete plugs in all water main pipes to be abandoned at the limits of the trench excavations, or at other locations if so indicated by the Plans.
3. Provide ductile iron plugs, caps, or other necessary fittings, and thrust blocking, on ends of portions of existing water mains that are to remain in service.
4. Close existing water valves only with the permission of the Engineer.
5. Remove valves, and valve boxes at the top of the existing valve, and fill excavation with compacted special granular material.
6. Remove valves, and valve vaults to top of lowest pipe, and backfill with compacted special granular backfill material.
7. Break the bottom of abandoned structures.
8. Remove fire hydrants in total, including auxiliary box, and backfill excavation with compacted special granular backfill material.
9. Deliver valves, valve boxes, fire hydrants, and frames and grates to the Municipality's Public Works Department.
10. Removal of existing water mains that are being replaced by new water mains in the same location is considered incidental to the installation of the new water main and no additional compensation will be allowed.

UTILITIES AND SERVICES DURING CONSTRUCTION:

Water:

1. The Owner will provide a water meter for the Contractor's use via their Meter Rental Program. A one-time meter deposit is required.
2. The Owner will provide water for the initial filling, flushing, and testing of the main at no cost to the Contractor.
3. The Contractor is permitted to utilize the fire hydrant most adjacent to the scope of work for water used for filling, flushing, and testing of that main and related construction activities during construction.

DUCTILE IRON WATER MAIN, OPEN CUT

This work shall be done in accordance with the Special Provision for “WATER DISTRIBUTION SYSTEM”, and “TRENCHING BACKFILLING AND COMPACTING FOR SANITARY SEWERS AND WATER MAIN”, and shall consist of water main pipe complete in place, including excavation; removal and disposal of waste excavated materials; protection, replacement, or repair of utilities; trench dewatering, including erosion and siltation control methods and devices to provide protection to environment from all pumping operations; installation of pipe; polyethylene wrapping of all pipe; bracing; bedding and covering of pipe; trench backfilling with and compaction of excavated materials; testing; disinfection, finish grading; but not including backfilling with trench backfill material.

This pay item includes the pipe within tree tunnels, and within casing installed by open cut.

This pay item includes all pipe fittings and new thrust blocks shown on the drawings and installed in the field by the Contractor.

Installing new mains in excess of 6 feet of cover in order to cross existing mains, provide for future improvements or cross below sewer lines is included in the cost of installation of the water main, and no addition to the contract will be allowed.

Where the water main excavation is in existing pavement not being removed as part of this contract, the excavation shall be patched with hot-mix asphalt to match the existing pavement material. The pavement sawing, removal and disposal of existing pavement, and the new pavement shall be paid for separately as HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT.

Method of Measurement. This work will be measured in lineal feet along the centerline of the pipe, and the measurement shall extend through fittings and valves.

Basis of Payment. This work will be paid for at the contract unit price per lineal foot for DUCTILE IRON WATER MAIN, OPEN CUT, of the pipe sizes, joint type and material specified, regardless of depth.

Trench backfill with special granular materials shall be paid for separately as TRENCH BACKFILL – WATER MAIN.

CURED-IN-PLACE PIPE (WATER MAIN)

Description. The work of this Pay Item shall be done in accordance with the Standard Specifications for Water and Sewer Construction in Illinois and shall consist of the installation of cured-in-place-pipe (CIPP) within an existing water main complete in place, including protection of staging areas; providing access pits; tight sheeting to protect adjacent utilities, roadways and property, or to provide protection to the public; repair, or replacement of existing utilities and

pipelines; excavation; bracing; dewatering; preparatory cleaning and television inspection of water main (through bends); cleanup; television inspection tape to Owner and Engineer prior to installation of water main CIPP; installation of CIPP; testing of CIPP; sample testing by independent laboratory; final television inspection; connections between new liner and new pipe in each access pit; and finish grading.

The work of this Pay Item consists of all testing, including providing the necessary apparatus to obtain a representative, restrained CIPP sample; curing the sample with the liner; removing the sample after completion of curing; labeling each sample as specified; and delivery of sample to a state certified, third-party testing laboratory, accepted by the Engineer, to be tested for the parameters specified. The Pay Item also includes the laboratory costs for testing.

The work of this Pay Item consists of all fittings as necessary to connect CIPP Water Main to proposed or existing Ductile Iron Water Main.

SUMMARY: Provide pipeline cleaning, televising, and pressure pipe lining as shown on the Drawings, specified herein, and as needed for a complete and proper rehabilitation of the pipeline.

Provide labor, materials, tools, and equipment necessary to perform all work specified in this Section.

No previous television inspections are available. Closed circuit televising of pressure pipe must be performed prior to cleaning, after cleaning, and after installation of the liner.

SUBMITTALS:

Submit shop drawings, including:

- A. Manufacturer's recommended installation procedures and written certification of compliance with ASTM standards for all materials.
- B. Pressure pipe lining design calculations, including manufacturer's validation of contractor's design calculations or manufacturer's design worksheet.
- C. Manufacturer's recommendation for the following:
 - 1. Minimum and maximum temperature to be maintained during the cure period and post-cure period.
 - 2. Minimum and maximum pressures to be during the inversion and during the cure period.
 - a. Television inspections conducted in digital format (.mpg or .avi) and submitted on CD, DVD or USB 2.0 media.
 - b. Temporary Water System Plan

Submit at the preconstruction meeting for review and approval by Owner and Engineer:

- A. Manufacturer's Affidavit verifying lining system is manufactured and tested in accordance with the requirements of the applicable ASTM standard.

Submit after installation of the lining product:

- A. Written log of pressure readings during the inversion and cure period.
- B. Written log of temperatures for each thermocouple used during the cure period and post-cure period.
- C. Test results from two labeled, lining product sample for each pipe diameter and liner thickness. Testing to be done by a third party independent laboratory.
 - 1. Written log of results for pressure and leakage testing.
 - 2. Post-rehabilitation television inspection videos and written logs.
- D. Submit inspections in digital format (.mpg or .avi) and on CD or DVD.
 - 1. Provide two sets of pre and post rehabilitation videos.
 - 2. Provide two sets of a professionally prepared index listing the contents of each disc and a bound document containing the written logs grouped by disc content.

QUALITY ASSURANCE:

Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

Certifications:

- A. Furnish manufacturer's certificates of compliance stating contractor is certified to perform the work.
- B. Provide manufacturer's certification that the proposed resin system and cure schedule are appropriate for the proposed application and have been tested in laboratory and field conditions.
- C. Refer to subsequent sections for Contractor qualification requirements.

PIPE CLEANING EQUIPMENT:

Provide high-velocity water jetting machines, mechanically powered equipment, cable attached devices, pipe pigs, and all other equipment necessary to clean pipe in preparation for televising and installation of pipe liner.

TELEVISIONING EQUIPMENT:

Provide closed circuit color televising (CCTV) equipment meeting following requirements:

- A. Television Camera:
 - 1. Use a digital color television camera designed and constructed for pipe inspection with the following capabilities:

2. High-resolution color-chip camera and monitor capable of producing a minimum of 650 lines of resolution.
3. Adequate and adjustable directional lighting to allow a clear picture of the entire periphery of the pipe.
4. Provide auxiliary lighting for pipes larger than 12-inch diameter.
5. Operable in 100 percent humidity conditions.
6. Use a camera that has a 360 degree radial by 270 degree pan-and tilt viewing field.
7. Remote or manually propelled.
8. Electronic footage counters accurate to less than 1 percent error over the length of the particular pipe being inspected.
9. Skids or floatation device where it is necessary to raise the camera in large pipes specifically sized for each pipe diameter to position the camera in the center of the pipe.

B. Audio-Video Recording System:

1. Provide the total audio-video recording system and procedures as required to produce a high quality digital video and audio production of bright, sharp, clear pictures with accurate colors, free from distortion. The audio portion shall have proper volume and clarity and shall be free from distortion.
2. Video Record Equipment:
 - a. Record inspection electronically and create DVDs directly from digital content without an intermediate analog conversion.
 - b. Provide the documentation of the inspection on DVD format discs.

WATER MAIN LINING PRODUCT: Provide complete lining product that meets the following specifications.

A. Basis of Design:

Pipe Condition	Partially deteriorated
Depth to pipe invert	6-feet
Design life (yrs)	50
Safety factor	2
Groundwater level	At surface
Ovality circumference	5%
Soil Modulus	1000 psi
Internal design pressure	150 psi

B. Material:

1. Provide material per manufacturer's recommendations of selected lining system.
2. Selected material must comply with ANSI/NSF 61 Class IV and ASTM F-1216.
 - a. The ASTM F1216 standard is a procedure for reconstruction that covers all aspects of rehabilitation, including but not limited to, materials, design considerations, installation, inspection, and chemical resistance of the material, etc.

- b. Finished lining must at a minimum be Class IV lining and comply with ASTM F1216, Appendixes, X1, "Design Considerations", X1.3.2. "Fully Deteriorated Pressure Pipe Condition."
- C. Certification:
1. Provide manufacturer's certification that the proposed resin system and cure schedule are appropriate for the proposed application, and have been tested in laboratory and field conditions.
 2. IEPA approval of the proposed water main lining manufacturer is required.
 - a. All the multiple water contact material used in the reconstruction of the water main must be certified under ANSI/NSF Standard 61 to verify that none of the products migrate or leach any harmful contaminant in to the drinking water.
- D. Pipe Fittings:
1. Provide pipe fittings as shown in the drawings. Fittings will be considered incidental and included within this pay item itself.
- E. Acceptable manufacturers and systems:
1. Sanexen Environmental Services, Inc. – AquaPipe System.
 2. Insituform Technologies USA, Inc. – InsituMain System.
 3. RS Blueline – Hammerhead Trenchless Equipment.
 4. Sekisui NordiTube, Inc – Nordipipe System

SURFACE CONDITIONS:

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.
- B. Protect utilities in area of construction.
 1. Contact JULIE at any locations where excavation is required.
- C. Restore all areas of construction to preconstruction condition, including streets, sidewalks, curbs, trees and shrubbery of same type and size, and lawns and parkways.

EXISTING PIPING:

- A. Protect existing piping throughout the area of proposed work.
 1. All existing piping to remain in use unless a change is approved by the Engineer.

PREPARATORY CLEANING AND INTERNAL PIPE INSPECTION:

- A. Clean and televise pipes to be lined prior to installation of lining product.
 1. Schedule and coordinate times of televising with the Engineer prior to televising.

2. Televisive pipe prior to installation of lining product and provide one copy of the DVD and written log to the Engineer for their viewing.
- B. Inspect pipes by closed circuit television to determine locations of conditions, joints, and building service connections.
 1. Utilize pan and tilt camera to locate each service.
 - C. Determine horizontal and vertical location of existing water main.

CORRECTION OF EXISTING CONDITIONS:

- A. Correct conditions in existing pipe that would prevent proper installation of lining product.
 1. Clean pipe surface of all debris, corrosion, and loose material.
 2. Flush host pipe with clean water after cleaning operations and remove all standing water with foam swabs.

WATER MAIN LINING:

- A. Conduct operations in strict accordance with applicable OSHA standard involving scaffolding and working in confined spaces.
- B. Install lining product per manufacturer's recommendations and approved shop drawings.
- C. Cure the product per manufacturer's recommendations and approved shop drawings.

TESTING:

- A. Provide two lining product samples.
 1. Provide two samples for each pipe diameter and thickness even if the quantity is less than one thousand feet.
 2. Obtain one sample from termination point and one sample from a clamped mold placed in the downtube when heated water is used and in the silencer when steam is used.
 3. Label each sample.
 4. Submit samples to third party, independent laboratory for testing of short-term flexural (bending) properties, tensile properties, and liner thickness. Installed liner must meet the minimum thickness requirements. Non-compliance will result in a credit based upon the percent of actual thickness to design thickness regardless of flexural and tensile properties.
 5. If any test fails to meet the testing requirements, test the samples from the remaining inversions at no cost to the Owner.
- B. Test watertightness by hydrostatic water testing method in ASTM F-1216.
 1. Testing requirement is 150 psi for 2 hours with no loss of pressure.

- C. Provide final inspection test by closed circuit television as outlined in ASTM and deliver DVDs to the Engineer.
- D. No visual defects, including delamination, pinholes, un-impregnated or cured spots, or foreign bodies are acceptable.

Basis of Payment. The work will be paid for at the Contract Unit Price per lineal foot for CURED-IN-PLACE PIPE (WATER MAIN) of the pipe sizes noted, regardless of depth.

CONNECTION TO WATER MAIN (NON-PRESSURE)

Description. This work shall be done in accordance with the Special Provisions for "WATER DISTRIBUTION SYSTEM" and "TRENCHING, BACKFILLING, AND COMPACTING FOR SANITARY SEWER AND WATER MAIN" and shall consist of non-pressure connections to existing water mains complete in place, including sawcutting, and removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; trench dewatering, including erosion and siltation control for discharge resulting from all pumping operations; protection, replacement, or repair of utilities; removal of existing plugs or caps; cutting and removal of the pipe if necessary; bracing; polyethylene wrapping of pipe and valves; bedding and covering of pipe; testing; disinfection; finish grading; including backfilling and compacting excavated material or trench backfill material, but not including the valve vault or fittings.

The maximum time allowable per each connection for water pressure shut off is two (2) hours. Each connection must be made within two (2) hours. Public works staff shall be notified a minimum 48 hours prior to the planned water disruption.

Basis of Payment. This work will be paid for at the contract unit price each for CONNECTION TO WATER MAIN (NON-PRESSURE), of the pipe or valve size shown.

Water main fittings and valves shall be paid for separately.

WATER VALVES

This work shall be done in accordance with the Special Provisions for "WATER DISTRIBUTION SYSTEM" and shall consist of installation of an in-line valve, including excavation; protection, replacement of utilities; trench dewatering; erosion and siltation control methods and devices to protect the environment; the installation of a new gate valve; backfilling with and compacting of trench backfill material; and finish grading.

This work will include cutting of the existing main on each side of the existing tee, a new gate valve; insertion of the valve and short lengths of pipe and watertight couplings on both sides of the valve, all to be placed within a new valve vault.

The valve vault will be paid for separately as VALVE VAULTS. The work is further detailed in the Special Provisions for WATER DISTRIBUTION SYSTEM.

Basis of Payment. This work will be paid for at the contract unit price each for WATER VALVES, of the size indicated in the Drawings.

VALVE VAULTS

Description. This work shall be done in accordance with the Special Provision for “WATER DISTRIBUTION SYSTEM” and “TRENCHING, BACKFILLING AND COMPACTING FOR SANITARY SEWER AND WATER MAIN” and shall consist of installing valve vaults complete in place, including steps as shown in the detail on the Plans. This work shall include excavation; removal and disposal of waste excavated materials; excavation in excess of that required for standard pipeline trench construction or for tapping sleeve installation; bracing, sheeting, and shoring; protection, repair, or replacement of utilities; trench dewatering; erosion and siltation control methods and devices to protect the environment; vault bedding; monolithic type vault base with watertight flexible pipe connectors where pipes enter vault walls for water main valves or vault to be installed over existing water main for pressure or non-pressure connections; vault riser sections as required; concentric or eccentric cones; frame and cover and adjusting rings; the removal and disposal of the existing valve vault (if the new vault is being placed in the same location as the existing); backfilling with and compacting trench backfill material around the new vault; and finish grading.

Basis of Payment. This work will be paid for at the contract unit price each for VALVE VAULTS, of the size and frame indicated.

FIRE HYDRANTS

Description. The work of this pay item shall be in accordance with the Special Provision for “WATER DISTRIBUTION SYSTEM” and “TRENCHING, BACKFILLING, AND COMPACTING FOR SANITARY SEWER AND WATER MAIN” and shall consist of furnishing and installing fire hydrants with 6-inch ductile iron leader pipe, auxiliary valve and valve box and cover, extension stem, and restrained joint fittings, complete in place at the locations shown on the drawings, including sawcutting, removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; trench dewatering; thrust blocking; hydrant barrel drain washed stone pocket; support; testing; disinfection; and backfilling with and compacting of trench backfill material. This work includes polyethylene wrapping of connecting pipe, auxiliary valve, and hydrant.

Method of Measurement. This work will be measured for payment for each fire hydrant installed, which shall include all hydrant leader pipe indicated in the Drawings, measured from the center of the main to the center of the hydrant.

Basis of Payment. This work will be paid for at the contract unit price each for FIRE HYDRANTS.

Fire hydrant barrel section extensions will be paid for at the contract unit price per foot for FIRE HYDRANT BARREL EXTENSION.

FIRE HYDRANT BARREL EXTENSION

Description: The work of this pay item shall be in accordance with the Special Provision for "WATER DISTRIBUTION SYSTEM" and "TRENCHING, BACKFILLING AND COMPACTING FOR SANITARY SEWER AND WATER MAIN" and shall consist of furnishing and installing new fire hydrant barrel extensions and new auxiliary valve box extensions, including extension stems, complete in place at the locations where required; including backfilling with and compacting of trench backfill material around the fire hydrant barrel and auxiliary valve box.

Method of Measurement. This work will be measured for payment in vertical feet of the barrel extension (including valve box extension), measured to the nearest 0.5 foot.

Basis of Payment. This work will be paid for at the contract unit price per foot of FIRE HYDRANT BARREL EXTENSION.

EXPLORATION TRENCH (SPECIAL)

Description.

This work shall consist of excavating a trench for the purpose of verifying clearances and locations of existing private and public utilities and storm sewers prior to constructing proposed utilities. The exploration trench shall be constructed at the locations as determined by the Engineer and in accordance with Article 213.02 of the Standard Specifications, except as modified herein.

The depth of the trench shall be variable, but shall be deep enough to locate all potential conflicts. The width of the trench shall be sufficient to allow proper investigation of the entire trench. The exploration trench shall be backfilled with gradation CA 6 stone, the cost of which shall be included in the item of EXPLORATION TRENCH (SPECIAL).

Measurement. This work will be measured for payment per horizontal lineal foot of actual trench constructed.

Basis of Payment. This work will be paid for at the contract unit price per foot for EXPLORATION TRENCH (SPECIAL), regardless of the depth required, and no extra compensation will be allowed for any delays, inconveniences or damages sustained by the Contractor performing the work.

PARKWAY RESTORATION

This work shall be done in accordance with Sections 211 and 252 of the Standard Specifications and the Details provided in the Plans, except where modified herein.

Description. The purpose of this work is to restore the areas disturbed by construction and/or to provide proper drainage in the parkways.

This work shall include restoring disturbed areas within the construction limits, removing excess backfill or existing material, furnishing and placing topsoil in accordance with Section 211, compacting and grading to maintain positive slope, and seeding the areas in accordance with Section 252. Care should be taken to insure proper compaction as the Contractor will be responsible for repair of any areas where settlement occurs.”

211.02 Materials. Add the following to the end of the Article:

“Topsoil shall be a loamy mixture of black dirt having at least 90 percent passing a No. 10 sieve, and shall be free of large roots, brush, sticks, weeds, stones larger than 1/2-inch in diameter and any other litter. Topsoil, pH shall not be lower than 4.5 nor higher than 8.5 as determined in accordance with ASTM procedures for soil testing.

211.04 Placing Topsoil and Compost. Add the following to the end of the Article:

“The topsoil shall be spread to a smooth, compacted uniform thickness of not less than 4 inches.”

252.03 Ground Preparation. Add the following to the end of the Article:

“The removal of any excess backfill material shall be included in the pay item for PARKWAY RESTORATION.

Fertilizer nutrients shall be applied in accordance with Section 252.03 of the Standard Specifications and shall be included in the pay item for PARKWAY RESTORATION.”

252.06 Placing Seed. Add the following to the end of the Article:

“The Contractor shall provide subsequent reseeding until a satisfactory growth of grass is produced or if settlement occurs.”

211.07 and 252.12 Method of Measurement. Delete the final paragraph of Article 252.12, Replace Article 211.07 and the first paragraph of 252.12 with the following:

“Method of Measurement. This work will be measured for payment in place, and the area computed in square yards. To be acceptable for final payment, the seed shall be growing in place for a minimum of 30 days in a live, healthy condition.”

211.08 and 252.13 Basis of Payment. Delete the final paragraph of Article 252.13, Replace Article 211.08 and the first three paragraphs of 252.13 with the following:

“Basis of Payment. This work will be paid for at the contract unit price per square yard for PARKWAY RESTORATION.”

HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT

This work shall be performed in accordance with Articles 440.04, 440.06, 442.02 through 442.05, and 442.08 through 442.11 of the Standard Specifications except as modified herein.

Description. This work consists of the removal and replacement of all loose and defective HMA surface at locations designated by the Engineer to the depth of the existing HMA pavement or minimum of three inches. If HMA removal, variable depth adjacent to the gutter flag or full width HMA removal is required, this item shall commence only after the grinding has been completed.

Prior to replacement of the HMA surface, the exposed base course shall be shaped and compacted to the satisfaction of the Engineer. Replacement shall consist of three inches (3") or matching of existing depth (whichever is greater) of HMA surface course, N50 placed over the entire area after the necessary surface corrections have been made.

Basis of Payment. This work will be paid for at the contract unit price per square yard for HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT.

AGGREGATE SURFACE COURSE REMOVAL AND REPLACEMENT, 8”

This work shall be done in accordance with Sections 202 and 402 of the Standard Specifications except as modified herein.

A. Add the following to the end of Article 402.04:

- a. “After the subgrade has been brought to a smooth grade and proper shape, it shall be compacted by use of vibratory rollers and/or compactors.”

B. Add the following to the end of Article 402.05:

- a. “Replacement shall consist of providing a CA-6 crushed gravel or crushed stone base course layer compacted to a minimum thickness of 8 inches, on a previously prepared subgrade.”

Method of Measurement. This work will be measured for payment at the contract unit price for the removal and replacement per square yard as indicated on the drawings.

Basis of Payment. This work shall be measured for payment in place and work will be paid for at the contract unit price per square yard for AGGREGATE SURFACE COURSE REMOVAL AND REPLACEMENT, 8”.

DUST CONTROL WATERING

Description. This work shall consist of the exclusive control of dust resulting from construction operations by the uniform application of sprinkled water. DUST CONTROL WATERING shall be performed when directed by the Engineer. All equipment used for this work shall be approved by the Engineer prior to beginning the work and shall be equipped with adequate measuring devices for metering the exact amount of water discharged.

Method of Measurement. Dust Control Watering will be measured for payment in units of 1000 gallons of water applied. All water used shall be properly documented by ticket or other approved means.

Basis of Payment. This work will be paid for at the contract unit price per unit for DUST CONTROL WATERING.

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

The Contractor shall comply with the Section 669 of the Standard Specifications and regulations of 35 Ill. Adm. Code 1100 as amended by the Illinois Pollution Control Board for Clean Construction or Demolition Debris (CCDD) as included in the cost of the items of work for which this applies.

Based on a preliminary screening of the area, the following information has been found at the project site:

- 1) The project site, to the owner’s knowledge, has not been used for commercial or industrial purposes.
- 2) A soil assessment was completed and the results are provided in these contract documents. An Uncontaminated Soil Certification Form (IEPA LPC-663) is provided in these contract documents.

It is anticipated that any uncontaminated soil and material to be removed may be taken to a State of Illinois permitted CCDD fill site, registered Uncontaminated Soil Fill Operation (USFO), or other approved location. Any additional certifications or testing required by the Contractor’s disposal site shall be completed by the Contractor as included in the cost for SOIL DISPOSAL ANALYSIS.

Photoionization detector (PID) or flame Ionization detector (FID) readings are not acceptable results for determining classification of the excavated material. Should a disposal site reject any load due to a detector reading, the Contractor shall notify the engineer, transport the load to an appropriate site, and quarantine the excavated material. Analytical testing shall then be performed in accordance with Article 669.08 of the Standard Specifications. Testing shall only be completed for suspected contaminants based on the property's land use history. No additional payment will be made to the Contractor for testing material rejected due to PID or FID readings. An estimated quantity of NON-SPECIAL WASTE DISPOSAL has been provided in the contract based on available information. The actual need for NON-SPECIAL WASTE DISPOSAL shall be determined in the field from the Contractor's soil monitoring for contaminated material or as determined at the time of construction. The quantity will be deducted from the contract if material is uncontaminated or reused and no additional compensation will be due to the Contractor.

If additional testing is needed and concludes that the material is uncontaminated, the item shall be removed and disposed of in accordance with the appropriate pay item for removal. If testing concludes that the material is classified as non-special waste, the Contractor shall coordinate with the Engineer to reuse and distribute the material in an approved manner on site at no additional cost. If on-site reuse is not feasible, disposal and removal shall be paid for as NON-SPECIAL WASTE DISPOSAL.

This work shall include monitoring and potential sampling, analytical testing, and management of a material contaminated by regulated substances. The Contractor or firm shall continuously monitor all soil excavation for worker protection and soil contamination. Soil samples or analysis without the approval of the Engineer will be at no additional cost.

FILTER ASSEMBLY INSTALLATION AND/OR FILTER ASSEMBLY SUPPLY AND INSTALLATION

General

This item shall be done in accordance with applicable articles of Section 280.04 (c) of the Standard Specifications, with the National Pollution Discharge Elimination System (NPDES) requirements. All existing and newly constructed storm sewer pipes and structures are to be kept free from any debris and sediment resulting from construction activities. All storm sewer structures in the construction zone shall be provided with Village approved sedimentation trapping filter assembly. Any accumulation of debris or sediment in the drainage pipes and/or structures shall be removed at the Contractor's own expense, and no extra compensation will be allowed.

Description

This work shall consist of the installation and removal of a Storm Sewer (drainage) structure filter assembly, consisting of a frame and filter bag, to collect sediment in surface runoff for all storm sewer structures with open lid or grate.

The Contractor shall inspect the jobsite and review the plans to determine the number and dimensions of the various types of drainage structure frames into which the inlet filters will be installed prior to ordering materials. The Contractor shall be responsible for the supply and installation of the appropriate filters.

The drainage structure filter assembly shall be installed under the grate on the lip of the drainage structure frame with the fabric bag hanging down into the storm sewer structure. The storm sewer inlet assembly shall remain in place until final removal of the assembly is requested by the Engineer. The removed filter assembly shall remain the property of the Village.

Final removal of the filter assembly shall include the disposal of debris or silt that has accumulated in the filter bag at the time of final removal and prior to delivering washed out, clean filters.

Periodic cleaning of the filter shall be paid for separately.

Materials

The storm sewer structure filter assembly consists of steel frame with a replaceable geotextile fabric sedimentation bag attached with a steel band with locking cap that is suspended from the frame. A clean used sediment filter bag in good condition, meeting the approval of the Engineer, may be substituted for new materials. The bag must be replaced (without additional charges) if it is severely worn or torn.

The storm sewer structure filter assembly frame shall be rigid steel meeting the requirements of ASTM-A36. The frame shall include an overflow feature that is welded to the frame's ring. The overflow feature shall be designed to allow full flow of water into the structure if the filter bag is filled with sediment. The dimensions of the assembly frame shall allow the storm sewer structure grate to fit into the filter assembly frame opening. The filter assembly frame shall rest on the inside lip of the drainage structure frame for the full variety of existing and proposed storm sewer structure frames that are present on this contract.

The storm sewer structure filter assembly bag shall be constructed of a polypropylene geotextile fabric. The geotextile filter bag fabric shall weigh a minimum of four (4) ounces per square yard and provide a minimum flow rate of hundred forty-five (145) gallons per minute per square foot, and designed for a minimum silt and debris capacity of two (2) cubic feet. The filter bag shall be reinforced with an outer layer of polyester mesh fabric. The filter bag shall be suspended from the steel frame with a stainless steel band and locking cap. The filter assembly frame shall not cause the drainage structure grate to extend higher than one-eighth (1/8) inch above the storm sewer structure frame.

Manufacturer

The drainage structure inlet filter shall be manufactured by ADS FLEXSTROM INLET FILTERS or Equal.

Basis of Payment

The work will be paid for at the contract unit price per by FILTER ASSEMBLY SUPPLY AND INSTALLATION.

The price shall include all costs for labor, materials, equipment and incidentals necessary to perform the proper filter installation work.

The Contractor is required to have the filter basket inspected and approved by the Engineer upon completion.

PERIMETER EROSION BARRIER INSTALLATION AND MAINTENANCE

The Contractor shall install perimeter erosion barrier (silt fence) at the limits of disturbance and where indicated on the Drawings. The proposed limits of disturbance shall be approved by the Engineer but in general it shall be defined approximately at a northern edge of two (2) Floodplain Enhancement areas.

This work shall be done in accordance with the Village of Hoffman Estates standard detail "Erosion Control Detail" as indicated on the Drawings.

Temporary sediment barrier fencing shall be maintained, cleaned or replaced as necessary during construction when it becomes clogged or ineffective and shall remain in place until completion of grading activities and substantial establishment of cover crop. Temporary fencing shall be maintained, repaired and/or replaced (if required by the Engineer) without additional cost to the Village during the entire construction period. The Engineer's approval for temporary fence removal must be obtained by the Contractor.

Basis of Payment. This work shall be paid for at the contract unit price per foot for PERIMETER EROSION BARRIER INSTALLATION AND MAINTENANCE, which price shall be payment in full for labor, materials, equipment and incidentals necessary to perform the work.

PROTECTION OF EXISTING TREES

The Contractor shall be responsible for taking measures to minimize damage to the tree limbs, tree trunks, and tree roots at each work site. All such measures shall be included in the contract price for other work except that payment will be made for TEMPORARY FENCE, TREE TRUNK PROTECTION, TREE ROOT PRUNING, and TREE PRUNING.

The Contractor shall coordinate with the village forester or arborist prior to the start of construction to do a walk through and determine which trees or shrubs are to be protected, method of protection, and determine type of work to minimize damage to the tree.

All work, materials and equipment shall conform to Section 201 and 1081 of the Standard Specifications except as modified herein.

A. Earth Saw Cut of Tree Roots (Root Pruning):

1. Whenever proposed excavation falls within a drip-line of a tree, the Contractor shall:
 - a. Root prune 6-inches behind and parallel to the proposed edge of trench a neat, clean vertical cut to a minimum depth directed by the Engineer through all affected tree roots.
 - b. Root prune to a maximum width of 4-inches using a reciprocating saw blade for cutting tree roots or similar cutting machine. Trenching machines will not be permitted.
 - c. Exercise care not to cut any existing utilities.
 - d. If during construction it becomes necessary to expose tree roots which have not been pre-cut, the Engineer shall be notified and the Contractor shall provide a clean, vertical cut at the proper root location, nearer the tree trunk, as necessary, by means of hand-digging and trimming with chain saw or hand saw. Ripping, shredding, shearing, chopping, or tearing will not be permitted.
 - e. Top Pruning: When thirty percent (30%) or more of the root zone is pruned, an equivalent amount of the top vegetative growth or the plant material shall be pruned off within one (1) week following root pruning.
2. Whenever curb and gutter is removed for replacement, or excavation for removal of or construction of a structure is within the drip line/root zone of a tree, the Contractor shall:
 - a. Root prune 6-inches behind the curbing so as to neatly cut the tree roots.
 - b. Depth of cut shall be 12 inches for curb removal and replacement and 24 inches for structural work. Any roots encountered at a greater depth shall be neatly saw cut at no additional cost.
 - c. Locations where earth saw cutting of tree roots is required will be marked in the field by the Engineer.
3. All root pruning work is to be performed through the services of a licensed arborist to be approved by the Engineer.

Root pruning will be paid for at the contract unit price each for TREE ROOT PRUNING, which price shall be payment for all labor, materials, and equipment.

Tree limb pruning will be paid for at the contract unit price per each for TREE PRUNING (1 TO 10 INCH DIAMETER) and/or TREE PRUNING (OVER 10 INCH DIAMETER), which price shall include labor, materials, and equipment.

B. Temporary Fence:

1. The Contractor shall erect a temporary fence around all trees within the construction area to establish a "tree protection zone" before any work begins or any material is delivered to the jobsite.

No work is to be performed (other than root pruning), materials stored, or vehicles driven or parked within the "tree protection zone".

2. The exact location and establishment of the "tree protection zone" fence shall be approved by the Engineer prior to setting the fence.
3. The fence shall be erected on three sides of the tree at the drip-line of the tree or as determined by the Engineer.
4. All work within the "tree protection zone" shall have the Engineer's prior approval. All slopes and other areas not regarded should be avoided so that unnecessary damage is not done to the existing turf, tree root system ground cover.
5. The grade within the "tree protection zone" shall not be changed unless approved by the Engineer prior to making said changes or performing the work.

The fence shall be similar to wood lath snow fence (48 inches high), plastic poly-type or and other type of highly visible barrier approved by the Engineer. This fence shall be properly maintained and shall remain up until final restoration unless the Engineer directs removal otherwise. Tree fence shall be supported using T-Post style fence posts. Utilizing re-bar as a fence post will not be permitted.

Temporary fence will be paid for at the contract unit price per foot for TEMPORARY FENCE, which price shall include furnishing, installing, maintaining, and removing.

C. Tree Trunk Protection:

1. The Contractor shall erect trunk protection around all trees within the construction area to prevent damage to the trunk of the tree when temporary fence is not an option before any work begins or any material is delivered to the jobsite. No work is to be performed (other than root pruning), materials stored, or vehicles driven or parked within the "tree protection zone".

2. The 2 inch x 8 inch x 8 foot boards shall be banded continuously around the trunk of each tree to prevent scarring of the trees shown on the plans or designated by the Engineer.
3. Multi-stem trees, saplings, and shrubs to be protected within the area of construction, temporary fence may be used for trunk protection.

Tree trunk protection will be paid for at the contract unit price per each for TREE TRUNK PROTECTION), which price shall include materials, installation, and removal.

D. Tree Limb Pruning:

1. The Contractor shall inspect the work site in advance and arrange with the Village forester or arborist to have any tree limbs pruned that might be damaged by equipment operations at least one week prior to the start of construction. Any tree limbs that are broken by construction equipment after the initial pruning must be pruned correctly within 72 hours.
2. Top Pruning: When thirty percent (30%) or more of the root zone of a tree is pruned, an equivalent amount of the top vegetative growth or the plant material shall be pruned off within one (1) week following root pruning.
3. Tree limb pruning will be paid for at the contract unit price per each for TREE PRUNING (1 TO 10 INCH DIAMETER) and/or TREE PRUNING (OVER 10 INCH DIAMETER), which price shall include labor, materials, and equipment.

E. Removal of Driveway Pavement and Sidewalk:

1. In order to minimize the potential damage to the tree root system(s), the Contractor will not be allowed to operate any construction equipment or machinery within the "tree protection zone" located between the curb or edge of pavement and the right-of-way property line.
2. Sidewalk to be removed in the areas adjacent to the "tree protection zones" shall be removed with equipment operated from the street pavement. Removal shall be done by excavation equipment, or by hand, or a combination of these methods. The method of removal shall be approved by the Engineer prior to commencing any work.
3. Any pavement or pavement related work that is removed shall be immediately disposed of from the area and shall not be stockpiled or stored within the parkway area under any circumstances.

F. Backfilling:

1. Prior to placing the topsoil and/or seed, in areas outside the protection zone, the existing ground shall be disked to a depth no greater than one (1"), unless otherwise directed by the Engineer. No grading will be allowed within the drip line of any tree unless directed by the Engineer.

G. Damages:

1. In the event that a tree not scheduled for removal is injured such that potential irreparable damage may ensure, as determined by the Roadside Development Unit, the Contractor shall be required to remove the damage tree and replace it on a three to one (3:1) basis, at his own expense. The Roadside Development Unit will select replacement trees from the pay items already established in the contract.
2. The Contractor shall place extreme importance upon the protection and care of trees and shrubs which are to remain during all times of this improvement. It is of paramount importance that the trees and shrubs which are to remain are adequately protected by the Contractor and made safe from harm and potential damage from the operations and construction of this improvement. If the Contractor is found to be in violation of storage or operations within the "tree protection zone" or construction activities not approved by the Engineer, a penalty shall be levied against the Contractor with the monies being deducted from the contract. The amount of the penalty shall be two hundred fifty dollars (\$250.00) per occurrence per day.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

Village of Hoffman Estates

Baxter & Woodman, Inc.

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

State of Illinois
DEPARTMENT OF TRANSPORTATION
Bureau of Local Roads & Streets
SPECIAL PROVISION
FOR
LOCAL QUALITY ASSURANCE/ QUALITY MANAGEMENT QC/QA
Effective: January 1, 2022

Replace the first five paragraphs of Article 1030.06 of the Standard Specifications with the following:

“1030.06 Quality Management Program. The Quality Management Program (QMP) will be Quality Control / Quality Assurance (QC/QA) according to the following.”

Delete Article 1030.06(d)(1) of the Standard Specifications.

Revise Article 1030.09(g)(3) of the Standard Specifications to read:

“(3) If core testing is the density verification method, the Contractor shall provide personnel and equipment to collect density verification cores for the Engineer. Core locations will be determined by the Engineer following the document “Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations” at density verification intervals defined in Article 1030.09(b). After the Engineer identifies a density verification location and prior to opening to traffic, the Contractor shall cut a 4 in. (100 mm) diameter core. With the approval of the Engineer, the cores may be cut at a later time.”

Revise Article 1030.09(h)(2) of the Standard Specifications to read:

“(2) After final rolling and prior to paving subsequent lifts, the Engineer will identify the random density verification test locations. Cores or nuclear density gauge testing will be used for density verification. The method used for density verification will be as selected below.

Density Verification Method	
<input type="checkbox"/>	Cores
<input checked="" type="checkbox"/>	Nuclear Density Gauge (Correlated when paving \geq 3,000 tons per mixture)

Density verification test locations will be determined according to the document “Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations”. The density testing interval for paving wider than or equal to 3 ft (1 m) will be 0.5 miles (800 m) for lift thicknesses of 3 in. (75 mm) or less and 0.2 miles (320 m) for lift thicknesses greater than 3 in. (75 mm). The density testing interval for paving less than 3 ft (1 m) wide will be 1 mile (1,600 m). If a day’s paving will be less than the prescribed density testing interval, the length of the day’s paving will be the interval for that day. The density testing interval for mixtures used for patching will be 50 patches with a minimum of one test per mixture per project.

If core testing is the density verification method, the Engineer will witness the Contractor coring, and secure and take possession of all density samples at the

density verification locations. The Engineer will test the cores collected by the Contractor for density according to Illinois Modified AASHTO T 166 or AASHTO T 275.

If nuclear density gauge testing is the density verification method, the Engineer will conduct nuclear density gauge tests. The Engineer will follow the density testing procedure detailed in the document "Illinois Modified ASTM D 2950, Standard Test Method for Density of Bituminous Concrete In-Place by Nuclear Method".

A density verification test will be the result of a single core or the average of the nuclear density tests at one location. The results of each density test must be within acceptable limits. The Engineer will promptly notify the Contractor of observed deficiencies."

Revise the seventh paragraph and all subsequent paragraphs in Section D. of the document "Hot-Mix Asphalt QC/QA Initial Daily Plant and Random Samples" to read:

"Mixtures shall be sampled from the truck at the plant by the Contractor following the same procedure used to collect QC mixture samples (Section A). This process will be witnessed by the Engineer who will take custody of the verification sample. Each sample bag with a verification mixture sample will be secured by the Engineer using a locking ID tag. Sample boxes containing the verification mixture sample will be sealed/taped by the Engineer using a security ID label."

BDE SPECIAL PROVISIONS
For the July 31 and September 18, 2026 Lettings

The following special provisions indicated by a "check mark" are applicable to this contract and will be included by the Project Coordination and Implementation Section of the Bureau of Design & Environment (BDE).

File Name	#		Special Provision Title	Effective	Revised	
	80099	1	<input type="checkbox"/>	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
	80274	2	<input type="checkbox"/>	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
	80192	3	<input type="checkbox"/>	Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
	80173	4	<input type="checkbox"/>	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80426	5	<input type="checkbox"/>	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	April 1, 2026
	80475	6	<input type="checkbox"/>	Bridge Deck Concrete Overlays	Jan. 1, 2026	
*	80241	7	<input type="checkbox"/>	Bridge Demolition Debris	July 1, 2009	
*	50531	8	<input type="checkbox"/>	Building Removal	Sept. 1, 1990	Aug. 1, 2022
*	50261	9	<input type="checkbox"/>	Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
	80460	10	<input type="checkbox"/>	Cement, Finely Divided Minerals, Admixtures, Concrete, and Mortar	Jan. 1, 2025	Jan. 1, 2026
	80384	11	<input type="checkbox"/>	Compensable Delay Costs	June 2, 2017	April 1, 2019
*	80198	12	<input type="checkbox"/>	Completion Date (via calendar days)	April 1, 2008	
*	80199	13	<input type="checkbox"/>	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80461	14	<input type="checkbox"/>	Concrete Barrier	Jan. 1, 2025	
	80453	15	<input type="checkbox"/>	Concrete Sealer	Nov. 1, 2023	
	80261	16	<input checked="" type="checkbox"/>	Construction Air Quality – Diesel Retrofit	June 1, 2010	Jan. 1, 2025
	80476	17	<input type="checkbox"/>	Deck Slab Repair	Jan. 1, 2026	
*	80029	18	<input type="checkbox"/>	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2025
	80467	19	<input type="checkbox"/>	Erosion Control Blanket	Aug. 1, 2025	
	80229	20	<input type="checkbox"/>	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80452	21	<input type="checkbox"/>	Full Lane Sealant Waterproofing System	Nov. 1, 2023	
	80433	22	<input type="checkbox"/>	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
	80471	23	<input type="checkbox"/>	Guardrail	Nov. 1, 2025	
	80472	24	<input type="checkbox"/>	High Friction Surface Treatment	Nov. 1, 2025	
	80456	25	<input type="checkbox"/>	Hot-Mix Asphalt	Jan. 1, 2024	April 1, 2026
	80446	26	<input type="checkbox"/>	Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
	80438	27	<input type="checkbox"/>	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	April 2, 2024
	80483	28	<input type="checkbox"/>	Inlet Filters	April 1, 2026	
	80477	29	<input type="checkbox"/>	Longitudinal Tining	Jan. 1, 2026	July 1, 2026
	80450	30	<input type="checkbox"/>	Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	Aug. 1, 2025
	80478	31	<input type="checkbox"/>	Modified Longitudinal Construction Joint	Jan. 1, 2026	
	80464	32	<input type="checkbox"/>	Pavement Marking	April. 1, 2025	Nov. 1, 2025
	80468	33	<input type="checkbox"/>	Pavement Patching	Aug. 1, 2025	
	80441	34	<input type="checkbox"/>	Performance Graded Asphalt Binder	Jan. 1, 2023	
	80459	35	<input type="checkbox"/>	Preformed Plastic Pavement Marking	June 2, 2024	
*	34261	36	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
	80473	37	<input type="checkbox"/>	Raised Reflective Pavement Markers	Nov. 1, 2025	
	80455	38	<input checked="" type="checkbox"/>	Removal and Disposal of Regulated Substances	Jan. 1, 2024	April 1, 2026
	80474	39	<input type="checkbox"/>	Residential Driveway Temporary Signal	Nov. 1, 2025	
	80445	40	<input type="checkbox"/>	Seeding	Nov. 1, 2022	July 1, 2026
	80457	41	<input type="checkbox"/>	Short Term and Temporary Pavement Markings	April 1, 2024	April 2, 2024
	80462	42	<input type="checkbox"/>	Sign Panels and Appurtenances	Jan. 1, 2025	Jan. 1, 2026
	80479	43	<input type="checkbox"/>	Sinusoidal Rumble Strips	Jan. 1, 2026	
	80469	44	<input type="checkbox"/>	Slope Wall	Aug. 1, 2025	
	80448	45	<input type="checkbox"/>	Source of Supply and Quality Requirements	Jan. 2, 2023	Jan. 1, 2026
	80340	46	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
	80127	47	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	Nov. 1, 2025
	80480	48	<input type="checkbox"/>	Structural Repair of Concrete	Jan. 1, 2026	
	80397	49	<input type="checkbox"/>	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	50	<input type="checkbox"/>	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80463	51	<input type="checkbox"/>	Submission of Bidders List Information	Jan. 2, 2025	Mar. 2, 2025

	80482	52	<input type="checkbox"/>	Submission of Payroll Records – Federal Aid Contract	April 1, 2026	
	80437	53	<input type="checkbox"/>	Submission of Payroll Records – State Contract	April 1, 2021	April 1, 2026
	80435	54	<input type="checkbox"/>	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
	80465	55	<input type="checkbox"/>	Surveying Services	April 1, 2025	
	80481	56	<input type="checkbox"/>	Temporary Concrete Barrier	Jan. 1, 2026	
	80466	57	<input type="checkbox"/>	Temporary Rumble Strips	April 1, 2025	
	80484	58	<input type="checkbox"/>	Tolerance in Thickness for Continuously Reinforced PCC Pavement	July 1, 2026	
	80470	59	<input type="checkbox"/>	Traffic Signal Backplate	Aug. 1, 2025	
*	20338	60	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80429	61	<input type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	62	<input checked="" type="checkbox"/>	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
	80458	63	<input type="checkbox"/>	Waterproofing Membrane System	Aug. 1, 2024	
	80302	64	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	Jan. 2, 2025
	80454	65	<input type="checkbox"/>	Wood Sign Support	Nov. 1, 2023	
	80427	66	<input checked="" type="checkbox"/>	Work Zone Traffic Control Devices	Mar. 2, 2020	Jan. 1, 2026
	80485	67	<input type="checkbox"/>	Work Zone Width Restriction	July 1, 2026	
*	80071	68	<input type="checkbox"/>	Working Days	Jan. 1, 2002	

Highlighted items indicate a new or revised special provision for the letting.

An * indicates the special provision requires additional information from the designer, which needs to be submitted separately. The Project Coordination and Implementation Section will then include the information in the applicable special provision.

The following special provisions are in the 2026 Supplemental Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location(s)</u>	<u>Effective</u>	<u>Revised</u>
80447	Grading and Shaping Ditches	Articles 214.03 & 214.04	Jan. 1, 2023	

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010

Revised: January 1, 2025

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term “equipment” refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted according to the table below.

Horsepower Range	Model Year and Older
50-99	2003
100-299	2002
300-599	2000
600-749	2001
750 and up	2005

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

- a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (<https://www.epa.gov/verified-diesel-tech/verified-technologies-list-clean-diesel>), or verified by the California Air Resources Board (CARB) (<http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall not be grounds for a claim.

Diesel Retrofit Deficiency Deduction

When the Engineer determines that a diesel retrofit deficiency exists, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected. Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2024

Revised: April 1, 2026

Revise the first paragraph of Article 669.04 of the Standard Specifications to read:

“669.04 Regulated Substances Monitoring. Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities. The excavated soil and groundwater within the work areas shall be managed as either uncontaminated soil, hazardous waste, special waste, or non-special waste.

As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 “Regulated Substances Monitoring Daily Record (RSM DR)”.

Revise the first two sentences of the nineteenth paragraph of Article 669.05 of the Standard Specifications to read:

“The Contractor shall coordinate waste disposal approvals with the disposal facility and provide the specific analytical testing requirements of that facility. The Contractor shall make all arrangements for collection, transportation, and analysis of landfill acceptance testing.”

Revise the last paragraph of Article 669.05 of the Standard Specifications to read:

“The Contractor shall select a permitted landfill facility or CCDD/USFO facility meeting the requirements of 35 Ill. Admin. Code Parts 810-814 or Part 1100, respectively. The Department will review and approve or reject the facility proposed by the Contractor based upon information provided in BDE 2730. The Contractor shall verify whether the selected facility is compliant with those applicable standards as mandated by their permit and whether the facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected facility shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.”

Revise the first paragraph of Article 669.07 of the Standard Specifications to read:

“669.07 Temporary Staging. Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. All other soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Topsoil for re-use as final cover which has been field screened and found not to exhibit PID readings over daily background readings as documented on the BDE 2732, visual staining or

odors, and is classified according to Articles 669.05(a)(2), (a)(3), (a)(4), (b)(1), or (c) may be temporarily staged at the Contractor's option."

Add the following paragraph after the fourth paragraph of Article 669.10 of the Standard Specifications.

"Regulated substances monitoring will be measured for payment per calendar day, where 4 or more hours of monitoring activities is defined as 1.0 calendar day and less than 4 hours of monitoring activities is defined as 0.5 calendar day."

Revise the second paragraph of Article 669.11 of the Standard Specification to read:

"Regulated substances monitoring, including completion of form BDE 2732 for each day of work, will be paid for at the contract unit price per calendar day for REGULATED SUBSTANCES MONITORING. In no case will more than 1.0 calendar day be paid on a given calendar day."

Add the following paragraph after the sixth paragraph of Article 669.11 of the Standard Specifications.

"The sampling and testing of effluent water derived from dewatering discharges for priority pollutants volatile organic compounds (VOCs), priority pollutants semi-volatile organic compounds (SVOCs), or priority pollutants metals, will be paid for at the contract unit price per each for VOCS GROUNDWATER ANALYSIS using EPA Method 8260B, SVOCs GROUNDWATER ANALYSIS using EPA Method 8270C, or RCRA METALS GROUNDWATER ANALYSIS using EPA Methods 6010B and 7471A. This price shall include transporting the sample from the job site to the laboratory."

Revise the first sentence of the eight paragraph of Article 669.11 of the Standard Specifications to read:

"Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) to be managed and disposed of, if required and approved by the Engineer, will be paid according to Article 109.04."

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021

Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

“The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations.”

80439

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

Revised: January 1, 2026

Add the following to Article 701.03 of the Standard Specifications:

“(q) Temporary Sign Supports 1106.02”

Revise Article 701.03(p) of the Standard Specifications to read:

“(p) Detectable Pedestrian Channelizing Barricades 1106.02(m)”

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

“For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer’s specifications.”

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

“**701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer’s self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device.”

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

“**1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices shall be MASH compliant.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices shall be MASH compliant.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as sign supports, speed feedback displays, arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH compliant is available, an NCHRP 350 compliant device may be used, even if manufactured after December 31, 2019.”

Revise the first paragraph of Section 1106.02(a) of the Standard Specifications to read:

“(a) Lights. Lights shall meet the requirements of Chapter 13 of the “Equipment and Materials Standards of the Institute of Transportation Engineers,” 1998, Institute of Transportation Engineers, and shall be visible on a clear night from a distance of 3000 ft (900 m). Lights are classified as follows.”

Revise Articles 1106.02(g), 1106.02(k), 1106.02(l), and 1106.02(m) of the Standard Specifications to read:

“(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The

Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis.

- (m) Detectable Pedestrian Channelizing Barricades. The top panel or handrail shall be continuous and there should be at least a 2 in. (50 mm) gap between the hand trailing edge and its support. When visible to vehicular traffic, the top rail shall have alternating white and orange retroreflective stripes sloping at 45 degrees. The bottom panel shall be continuous and have alternating white and orange retroreflective stripes sloping at 45 degrees. Barricade stripes shall be 6 in. (150 mm) in width. The predominant color for other barricade components shall be white, orange, or silver.”

80427

**VILLAGE OF HOFFMAN ESTATES
SUMMARY OF QUANTITIES**

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
1	PRECONSTRUCTION VIDEO RECORDING	LSUM	1
2	ABANDON EXISTING WATER MAIN AND APPURTENANCES	LSUM	1
3	TRENCH BACKFILL - WATER MAIN	FOOT	84
4	DUCTILE IRON WATER MAIN, OPEN CUT, 16-INCH RJT	FOOT	109
5	CURED-IN-PLACE PIPE (WATER MAIN), 16-INCH	FOOT	1,801
6	CONNECTION TO WATER MAIN (NON-PRESSURE), 16-INCH	EACH	2
7	WATER VALVES, 16-INCH	EACH	2
8	VALVE VAULTS, 6-FOOT	EACH	2
9	FIRE HYDRANTS	EACH	1
10	FIRE HYDRANT BARREL EXTENSION	FOOT	8
11	EXPLORATION TRENCH (SPECIAL)	FOOT	100
12	PARKWAY RESTORATION	SQ YD	1,133
13	HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT	SQ YD	12
14	AGGREGATE SURFACE COURSE REMOVAL AND REPLACEMENT, 8"	SQ YD	3,160
15	DUST CONTROL WATERING	UNIT	40
16	NON-SPECIAL WASTE DISPOSAL (IDOT ITEM 66900200)	CU YD	10
17	SOIL DISPOSAL ANALYSIS (IDOT ITEM 66900530)	EACH	1

**VILLAGE OF HOFFMAN ESTATES
SUMMARY OF QUANTITIES**

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
18	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN (IDOT ITEM 66901001)	LSUM	1
19	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT (IDOT ITEM 66901003)	LSUM	1
20	REGULATED SUBSTANCES MONITORING (IDOT ITEM 66901006)	CAL DAY	5
21	FILTER ASSEMBLY SUPPLY AND INSTALLATION	EACH	3
22	PERIMETER EROSION BARRIER INSTALLATION AND MAINTENANCE	FOOT	2,100
23	TREE ROOT PRUNING	EACH	5
24	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	2
25	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	2
26	TREE TRUNK PROTECTION	EACH	5
27	TEMPORARY FENCE	FOOT	45

VILLAGE OF HOFFMAN ESTATES, ILLINOIS

SHOE FACTORY ROAD WATER MAIN REHABILITATION

IDOT STANDARD DRAWINGS

701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10 TRAFFIC CONTROL DEVICES



VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	LEGEND BENCHMARKS & ABBREVIATIONS
3	GENERAL NOTES
4	UTILITY ROAD STA. 10+00 TO STA 15+00 PLAN AND PROFILE
5	UTILITY ROAD STA. 15+00 TO STA 20+00 PLAN AND PROFILE
6	UTILITY ROAD STA. 20+00 TO STA 25+00 PLAN AND PROFILE
7	UTILITY ROAD STA. 25+00 TO STA 29+97 PLAN AND PROFILE
8	CROSS SECTIONS
9	CROSS SECTIONS
10	GENERAL STANDARD DETAILS

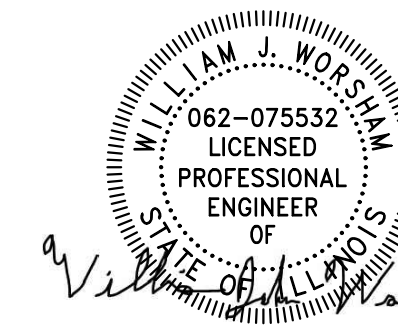
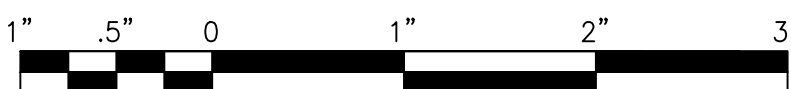
J.U.L.I.E. DESIGN STAGE
REQUEST NO. A251393916

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.



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PROJECT MANAGER
"LICENSE EXPIRES 11-30-2025"

James E. ...
PROJECT ENGINEER



www.baxterwoodman.com

BAXTER & WOODMAN, INC.
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2027

P:\HOFFMAN\2500360-SHOE FACTORY ROAD WATER MAIN REPLACEMENT\01_CIVIL_3D\01_SHTS-PLANS\2500360-COVER.DWG COVER
Plotted: 6/23/2026 9:33 AM BY: JWOODMAN

LEGEND

	EXISTING		SANITARY SEWER OR SERVICE
			STORM SEWER OR SERVICE
			WATER MAIN OR SERVICE
			FORCE MAIN
			MANHOLE
			CATCH BASIN
			INLET
			DRYWELL
			CULVERT END SECTION
			FIRE HYDRANT
			WATER VALVE W/ BOX AND COVER
			WATER VALVE VAULT
			WATER SERVICE BOX OR CURB STOP
			WATER METER
			CLEAN OUT
			SEPTIC VENT
			TO BE ABANDONED AND/OR REMOVED ROADWAY IMPROVEMENTS BY OTHERS
			GAS LINE
			GAS VALVE W/ BOX AND COVER
			GAS VALVE VAULT
			GAS METER
			GAS RISER
			GAS SERVICE VALVE
			TELEPHONE CABLE
			TELEPHONE DUCT
			TELEPHONE VAULT
			TELEPHONE RISER
			CABLE TELEVISION (BURIED)
			CABLE T.V. RISER
			CABLE T.V. VAULT
			UNDERGROUND ELECTRICAL
			ELECTRIC METER
			PAD MOUNTED TRANSFORMER
			ELECTRIC VAULT

LEGEND

	PROPOSED		EXISTING	JUNCTION BOX
				UTILITY POLE
				UTILITY POLE w/ GUY ANCHOR
				UTILITY POLE w/ LIGHT
				LIGHT STANDARD
				MAIL BOX
				STREET SIGN
				RAILROAD SIGNAL
				TRAFFIC SIGNAL CONTROLLER
				TRAFFIC SIGNAL POST W/ SIGNAL HEAD
				HANDHOLE
				DECIDUOUS TREE (W/ TRUNK INCH DIA.)
				CONIFEROUS TREE (W/ HEIGHT)
				DECIDUOUS BUSH
				CONIFEROUS BUSH
				DEFINING EDGE OF BRUSH OR FORESTED AREA
				FENCE
				GUARD RAIL
				CULVERT (CMP UNLESS NOTED)
				DITCH
				RIGHT OF WAY (ROW)
				RIGHT OF WAY MONUMENT
				UNFENCED PROPERTY LINE
				IRON PIPE (PROPERTY CORNER)
				CENTER LINE
				PROPOSED EL./EXISTING EL. and STATION
				SOIL BORING AND NUMBER
				BENCH MARK
				SURVEY CONTROL POINT
				OVERHEAD ELECTRICAL
				SUMMIT
				RIPRAP
				ROADWAY DITCH FLOW
				SWALE

BENCHMARKS (NAVD 88 DATUM)

- B.M. # 51 X ON SOUTHWEST CORNER OF NORTH HEADWALL OF CREEK 50 FEET WEST OF TRACKS AND 40 FEET WEST OF ROAD ELEV. = 815.580
- B.M. # 56 NORTH NORTHWEST FIRE HYDRANT ARROW BOLT 8 FEET EAST OF PATH AND 175 FEET SOUTH OF 190 WALL ELEV. = 825.800

(HATCHED SHALL BE REMOVED)
 (HATCHED SHALL BE REMOVED)

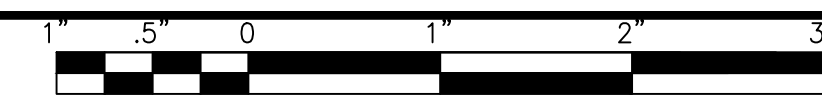
ABBREVIATIONS

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	T=	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	(F.Y.S.)	COMPLETE FRONT YARD SHORT WATER SERVICE
P	POINT	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)	(F.Y.L)	COMPLETE FRONT YARD LONG WATER SERVICE
G	GUTTER	X=	EXTERNAL DISTANCE OF VERTICAL CURVE	(R.Y.S.)	COMPLETE REAR YARD SHORT WATER SERVICE
C	CURB	PC	POINT OF CURVATURE	(R.Y.L)	COMPLETE REAR YARD LONG WATER SERVICE
C&G	CURB AND GUTTER	PI	POINT OF INTERSECTION	(R.Y.T.S.)	COMPLETE REAR YARD TRANSFER SHORT WATER SERVICE
BC	BACK OF CURB	PT	POINT OF TANGENCY	(R.Y.T.L)	COMPLETE REAR YARD TRANSFER LONG WATER SERVICE

FINAL DESIGN FOR BIDDING

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

DESIGNED - KPF	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	10	2
CHECKED - WJW		
DATE - 6/24/2026		



GENERAL NOTES

1. PROVIDE PRECONSTRUCTION VIDEO RECORDINGS OF CONSTRUCTION AREAS TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
2. CONTACT RYAN CHRISTENSEN, SUPERINTENDENT (WATER & SEWER), VILLAGE OF HOFFMAN ESTATES AT 847-490-6800 AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. TEMPORARY CONTRACTOR STORAGE IS AVAILABLE. CONTACT RYAN CHRISTENSEN, SUPERINTENDENT (WATER & SEWER), VILLAGE OF HOFFMAN ESTATES AT 847-490-6800 AT LEAST 48 HOURS PRIOR TO USE.
4. PROVIDE A STAGING AND SEQUENCING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION.
5. PERFORM ALL CONSTRUCTION WORK IN ACCORDANCE WITH THE DETAILS IN THE DRAWINGS, THE SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
6. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE DRAWINGS REPRESENTS ONLY THE OPINION OF THE OWNER AND ARE INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF UTILITY LOCATIONS IS NOT GUARANTEED. PROTECT EXISTING UNDERGROUND UTILITIES, BUILDING SERVICE LINES, AND SPRINKLER SYSTEMS FROM DAMAGE WHETHER THEY ARE SHOWN ON THE DRAWINGS OR NOT. MAKE EXPLORATION EXCAVATIONS AS NECESSARY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES PRIOR TO ORDERING AND INSTALLING ANY IMPROVEMENTS. EXERCISE CARE DURING THE PROGRESS OF WORK IN THE AREA TO PREVENT DAMAGE TO EXISTING UNDERGROUND UTILITIES. COORDINATE ANY UTILITY RELOCATION. THIS WORK IS INCIDENTAL TO CONSTRUCTION.
7. COORDINATE WITH UTILITY COMPANIES TO SUPPORT, PROTECT, OR REMOVE AND REPLACE ALL POWER POLES OR POLE ANCHORS THAT ARE AFFECTED BY CONSTRUCTION, EVEN WHERE SUPPORT IS NOT INDICATED ON PLAN SHEETS. THIS WORK IS INCIDENTAL TO CONSTRUCTION. NOTIFY ENGINEER OF CONFLICTS BETWEEN PROPOSED IMPROVEMENTS AND EXISTING UTILITIES AT LEAST 3 WORKING DAYS PRIOR TO THE INSTALLATION OF PROPOSED IMPROVEMENTS.
8. PROVIDE TRAFFIC CONTROL AS REQUIRED IN ACCORDANCE WITH THE SPECIFICATIONS, THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND THE LOCAL GOVERNMENTAL AUTHORITY DURING CONSTRUCTION.
9. MAINTAIN AT LEAST ONE LANE OF PAVEMENT OPEN TO TWO WAY TRAFFIC DURING CONSTRUCTION. MAINTAIN AT LEAST TWO LANES OF TWO WAY TRAFFIC DURING ALL NON-WORKING HOURS.
10. PROVIDE ACCESS TO DRIVEWAYS AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION THROUGH DRIVEWAYS. NOTIFY OWNERS 48 HOURS PRIOR TO DISRUPTING DRIVEWAY ACCESS. PROVIDE TEMPORARY ACCESS AS NEEDED USING CRUSHED STONE OR CRUSHED GRAVEL AS TEMPORARY DRIVING SURFACES. THIS WORK IS INCIDENTAL TO CONSTRUCTION.
11. REMOVE, STORE, AND REINSTALL ALL MAILBOXES WITHIN THE LIMITS OF CONSTRUCTION TO THE REQUIREMENTS OF THE POSTMASTER. REPLACE MAILBOXES DAMAGED FROM CONSTRUCTION ACTIVITIES WITH NEW MAILBOXES OF SIMILAR MAKE, SIZE, AND APPEARANCE. INSTALL AND REMOVE TEMPORARY MAILBOXES AS REQUIRED.
12. REMOVE, STORE, AND REINSTALL STREET SIGNS WITHIN THE LIMITS OF CONSTRUCTION AND PROVIDE TEMPORARY SIGNAGE FOR THE DURATION OF CONSTRUCTION AS REQUIRED BY THE CONTROLLING AUTHORITY.
13. PROTECT ALL PAVED AREAS FROM DAMAGE WHERE CRAWLER-TRACK MACHINERY IS USED.
14. DO NOT STORE MATERIALS, STRUCTURES, OR MACHINES WHERE THEY WILL OBSTRUCT STREET CROSSING OR DRIVEWAY SIGHTLINES.
15. IF TRENCH DEWATERING IS REQUIRED, PROTECT ADJOINING PROPERTIES AND DISCHARGE LOCATIONS FROM EROSION AND SEDIMENT. FILTER ALL DEWATERING DISCHARGE THROUGH SILT BAGS, TEMPORARY BASINS, OR TREATMENT CONTAINERS AS REQUIRED BY THE CONTROLLING AUTHORITY.
16. OVER EXCAVATE SOFT, SPONGY, OR OTHER UNSUITABLE SOIL ENCOUNTERED AT THE BOTTOM OF THE PIPE BARREL OR MANHOLE BOTTOM AND REPLACE WITH GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER.
17. REMOVE, PROTECT, STORE, AND REINSTALL ALL POSTS AND DECORATIVE FENCING IN CONFLICT WITH THE PROPOSED IMPROVEMENTS AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. DISPOSE ITEMS AS DIRECTED BY THE ENGINEER.
18. PROTECT ALL EXISTING DECORATIVE CONCRETE AND BRICK PAVERS TO REMAIN. REPAIR DAMAGE TO DECORATIVE CONCRETE OR BRICK PAVERS AT THE CONTRACTOR'S EXPENSE.
19. PROTECT ALL SURVEY SECTION OR SUBSECTION MONUMENTS, PROPERTY MARKERS, AND REFERENCE MARKERS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
20. PROVIDE AND INSTALL SYSTEMS FOR TEMPORARY BYPASS PUMPING, INCLUDING LABOR, EQUIPMENT, HOSES/PIPES, EMERGENCY POWER SYSTEMS OR ENGINE DRIVEN PUMPS, AND OPERATION AND MAINTENANCE OF THE SYSTEM DURING THEIR USE. TEMPORARY BYPASS PUMPING SYSTEMS ARE INCIDENTAL TO CONSTRUCTION.
21. SUPPORT, PROTECT, AND EXCAVATE CAREFULLY BENEATH WATER MAINS AND WATER SERVICE LINES. IF WATER SERVICE LINES ARE DAMAGED, REPLACE THEM FROM THE WATER MAIN TO THE SERVICE BOX (SPLICES ARE NOT ALLOWED). THE COST OF THIS WORK IS INCIDENTAL TO CONSTRUCTION.
22. PROVIDE ADEQUATE TRENCH WALL SHORING AND/OR TRENCH BOXES, ALONG WITH ADEQUATE VOLUMES AND DEPTHS OF PIPE BEDDING MATERIAL, TO PREVENT THE MOVEMENT OR DISPLACEMENT OF THE EXISTING UTILITIES DURING INSTALLATION OF THE PROPOSED IMPROVEMENTS.
23. IF A RESTRAINED JOINT CANNOT BE USED INSTALL A CAST-IN-PLACE CONCRETE THRUST BLOCK AT THE WATER MAIN BEND.
24. REPLACE EXISTING DRAIN TILES DISTURBED BY CONSTRUCTION WITH SAME SIZE PVC (SDR 26) PIPE AND NON-SHEAR, FLEXIBLE, STAINLESS STEEL BANDED COUPLINGS.
25. COVER NEW HYDRANTS WITH BLACK PLASTIC IMMEDIATELY AFTER INSTALLATION. REMOVE BLACK PLASTIC AFTER THE NEW WATER MAIN IS IN SERVICE.
26. DO NOT OPERATE WATER VALVES ON EXISTING WATER MAINS. CONTACT THE OWNER FOR WATER VALVE OPERATION.
27. CONTACT THE OWNER AT LEAST 3 WORKING DAYS PRIOR TO WATER MAIN CONNECTIONS.
28. NOTIFY RESIDENTS AND BUSINESS OWNERS AT LEAST 48 HOURS PRIOR TO ANY DISRUPTION OR SHUTDOWN OF ANY UTILITY SERVICE.
29. COORDINATE EQUIPMENT SALVAGE WITH OWNER.
30. RE-ESTABLISH PRE-EXISTING DRAINAGE PATTERNS IMMEDIATELY AFTER BACKFILLING AND DURING FINAL GRADING.
31. ADJUST MANHOLE AND VAULT RIM ELEVATIONS TO FINAL GRADE AT THE TIME OF FINAL PAVING OR LANDSCAPING. COST OF FRAME ADJUSTMENTS TO FINAL GRADE SHALL BE INCIDENTAL TO CONSTRUCTION.
32. FRAME ELEVATIONS GIVEN ON THE DRAWINGS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. ADJUST FRAMES ON ALL NEW STRUCTURES TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED.
33. THE ENGINEER WILL DETERMINE THE LIMITS OF DRIVEWAY REMOVAL AND REPLACEMENT BEYOND ALLOWABLE TRENCH LIMITS.
34. WHERE NEW PAVEMENT, SIDEWALKS, OR DRIVEWAYS ABUT EXISTING PAVEMENT TO REMAIN, SAW CUT THE EXISTING PAVEMENT TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE NEW AND EXISTING SURFACES. THE COST OF SAW CUTTING WORK IS INCIDENTAL TO CONSTRUCTION.
35. PERFORM PAVING OPERATIONS RESULTING IN A SINGLE TRANSVERSE JOINT FOR EACH PAVING DAY. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDE A SINGLE TRANSVERSE JOINT BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
36. RESTORE LAWN AREAS DISTURBED BY CONSTRUCTION WITH A MINIMUM 4-INCHES OF TOPSOIL, SEED, AND BLANKET AT LOCATIONS DETERMINED BY THE ENGINEER.
37. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE OWNER WILL PROVIDE A METER AFTER A ONE-TIME DEPOSIT FROM THE CONTRACTOR. THE CONTRACTOR IS PERMITTED TO UTILIZE THE ADJACENT FIRE HYDRANT FOR RELATED CONSTRUCTION ACTIVITIES. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE OWNER RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF WATER IF DEEMED NECESSARY.
38. REPLACE ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION WORK. NOTE LOCATION AND TYPE OF PAVEMENT MARKING PRIOR TO CONSTRUCTION WORK SO PAVEMENT MARKINGS CAN BE REINSTALLED TO MATCH EXISTING.
39. CLEAN ALL STORM AND SANITARY SEWERS AND ASSOCIATED STRUCTURES INCIDENTAL TO CONSTRUCTION UPON COMPLETION OF SEWER INSTALLATION.
40. NO CONSTRUCTION MATERIALS OR ACTIVITY PERMITTED IN WETLAND AREA.
41. CLEARING OF TREES 3 INCHES OR LARGER IN DIAMETER IS PROHIBITED BETWEEN APRIL 1 AND OCTOBER 30.
42. REPLACE ALL AGGREGATE FOR UTILITY ACCESS ROAD DISTURBED DURING CONSTRUCTION. MATCH CALLOUT INDICATED IN THE DRAWINGS.

P:\OFFICE\2500360-SHOE FACTORY ROAD WATER MAIN REPLACEMENT\01_CIVIL_3D\01_SHTS-PLANS\2500360-COVER.DWG GEN NOTES
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**VILLAGE OF HOFFMAN ESTATES, ILLINOIS
SHOE FACTORY ROAD WATER MAIN REHABILITATION**

GENERAL NOTES

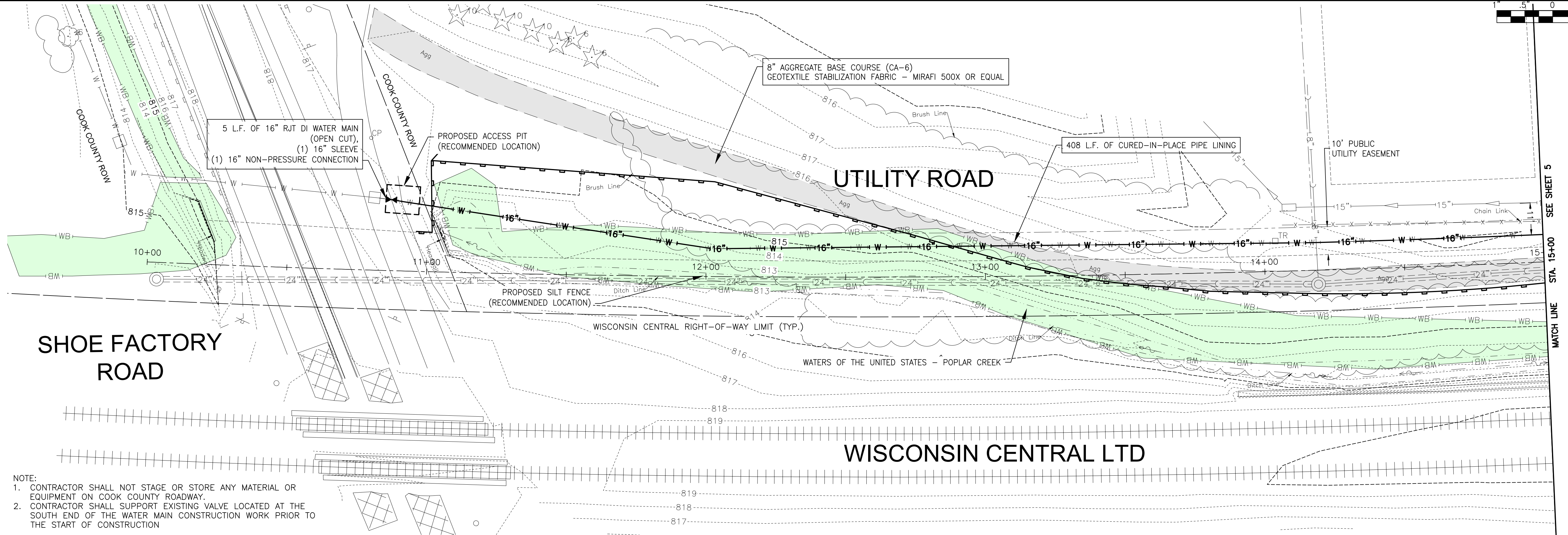
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PROJECT NO: 2500360

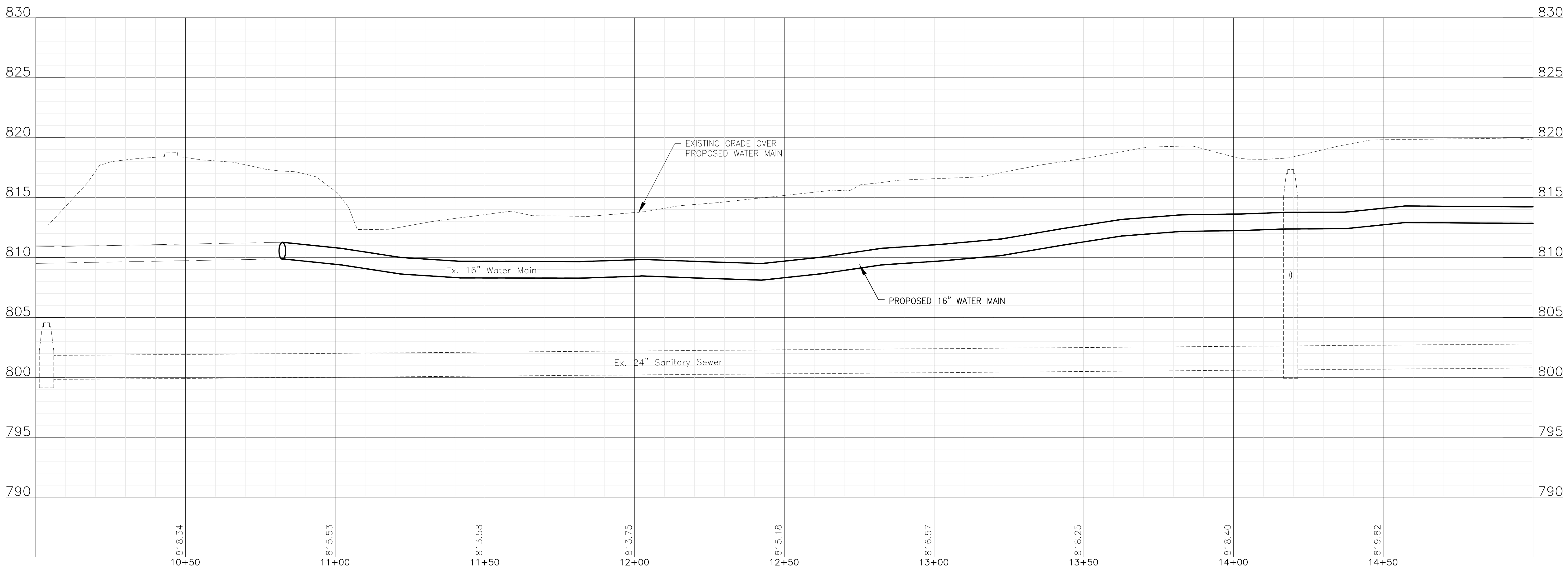
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DRAWN - ABN	10	3
CHECKED - WJW		
DATE - 6/24/2026		

**FINAL DESIGN
FOR BIDDING**

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- NOTE:
- CONTRACTOR SHALL NOT STAGE OR STORE ANY MATERIAL OR EQUIPMENT ON COOK COUNTY ROADWAY.
 - CONTRACTOR SHALL SUPPORT EXISTING VALVE LOCATED AT THE SOUTH END OF THE WATER MAIN CONSTRUCTION WORK PRIOR TO THE START OF CONSTRUCTION



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**VILLAGE OF HOFFMAN ESTATES, ILLINOIS
 SHOE FACTORY ROAD WATER MAIN REHABILITATION**

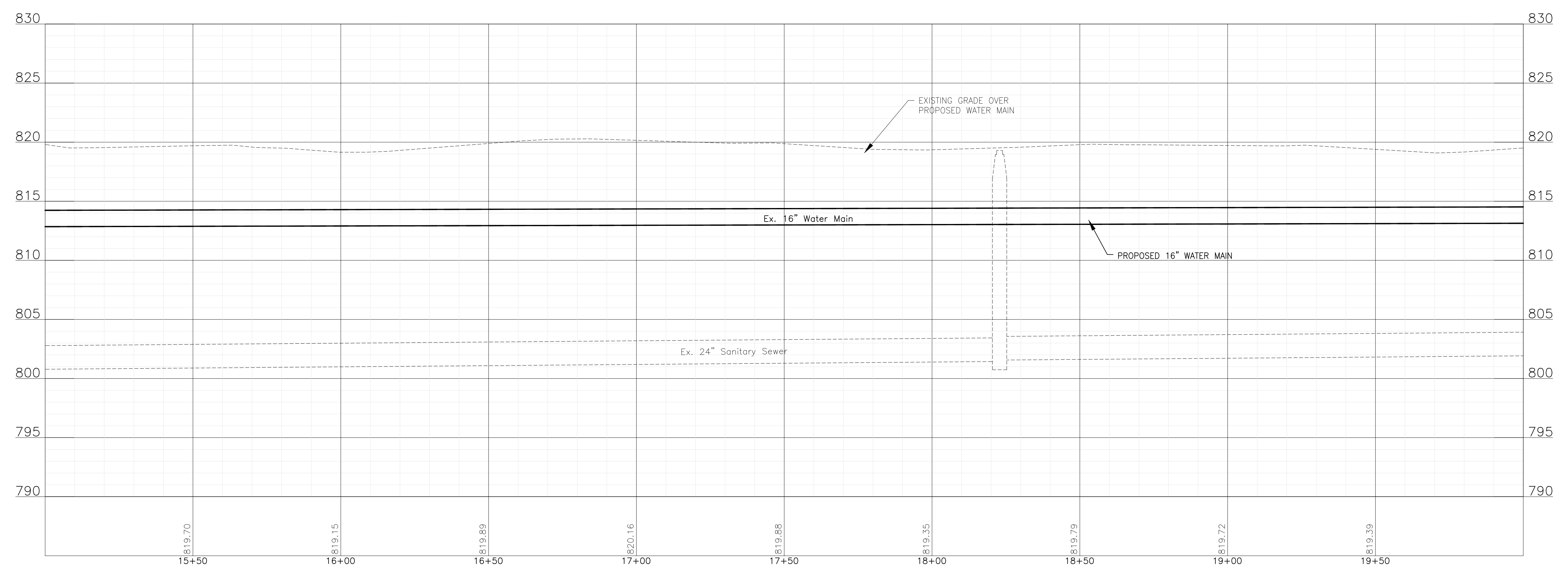
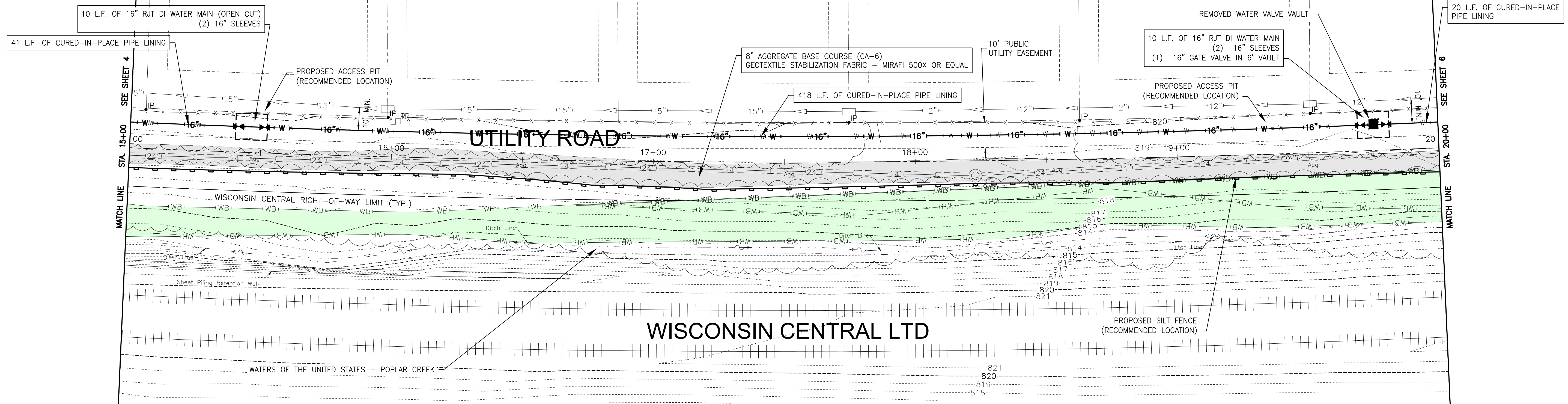
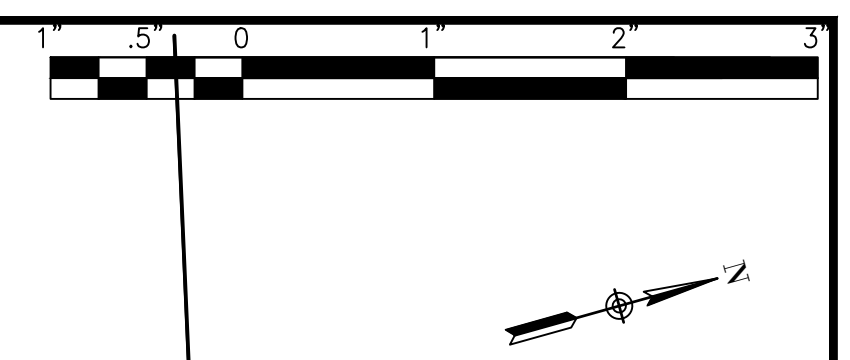
UTILITY ROAD STA. 10+00 TO STA 15+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 2500360

DESIGNED - KPF	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	10	4
CHECKED - WJW		
DATE - 6/24/2026		

FINAL DESIGN
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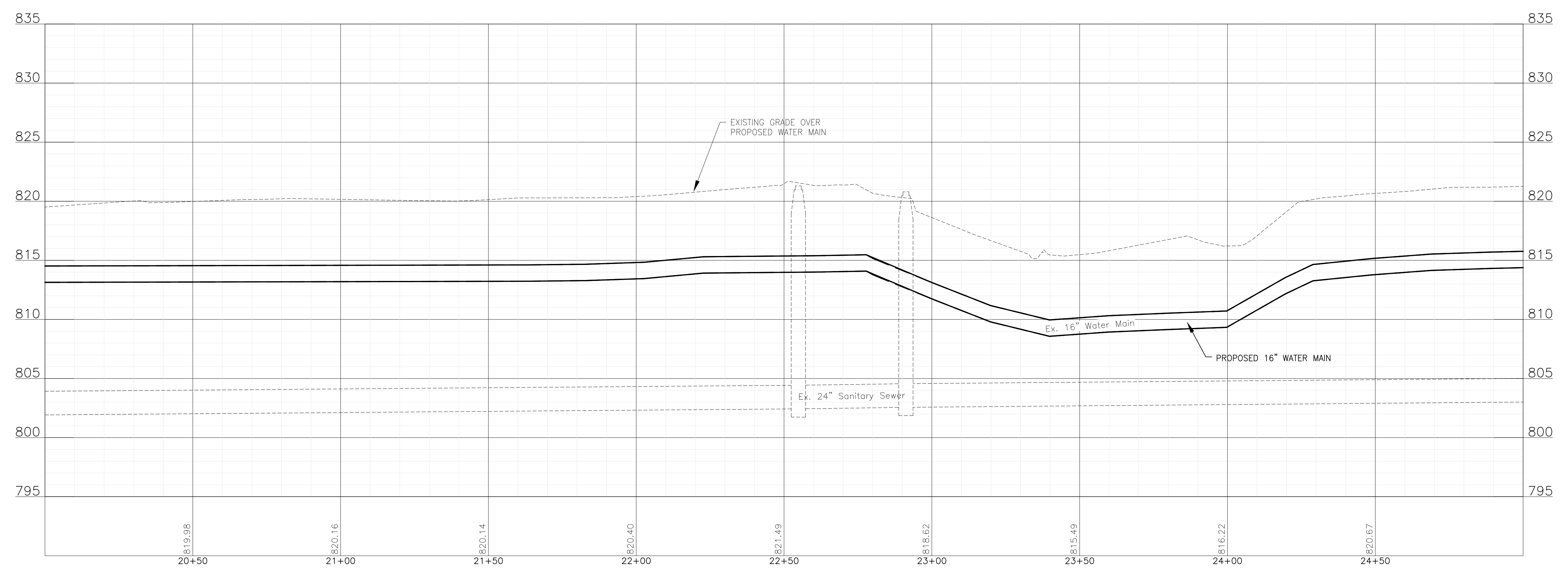
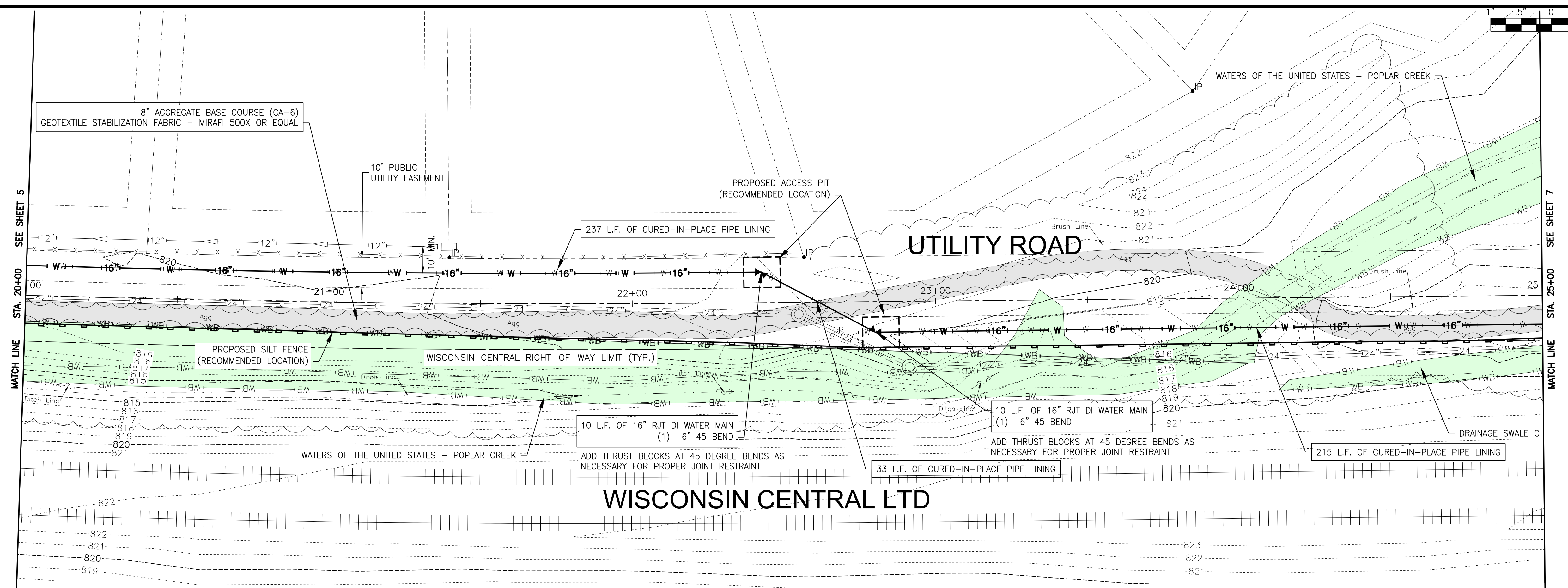
CONSULTANTS	REVISED -
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VILLAGE OF HOFFMAN ESTATES, ILLINOIS
SHOE FACTORY ROAD WATER MAIN REHABILITATION

UTILITY ROAD STA. 15+00 TO STA 20+00 PLAN AND PROFILE		DESIGNED - KPF DRAWN - ABN CHECKED - WJW DATE - 6/24/2026	TOTAL SHEETS 10	SHEET NO. 5
SCALE:	HORIZ 1"=20' / VERT 1"=5'	PROJECT NO:	2500360	

FINAL DESIGN FOR BIDDING

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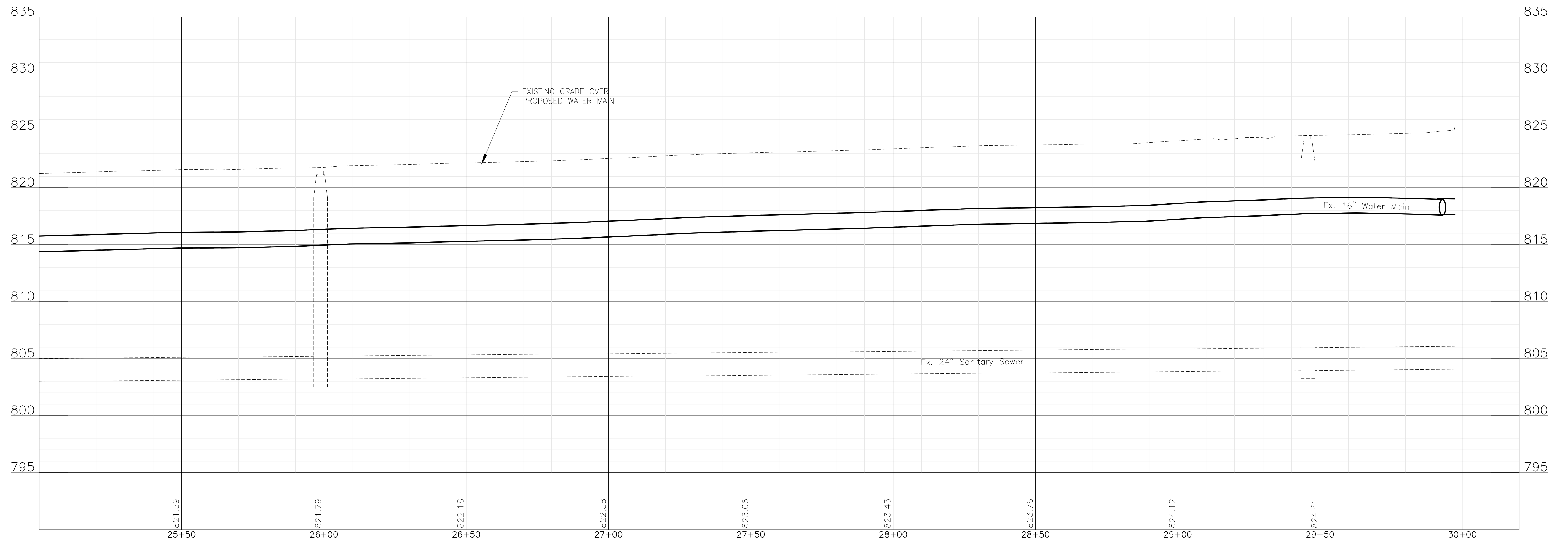
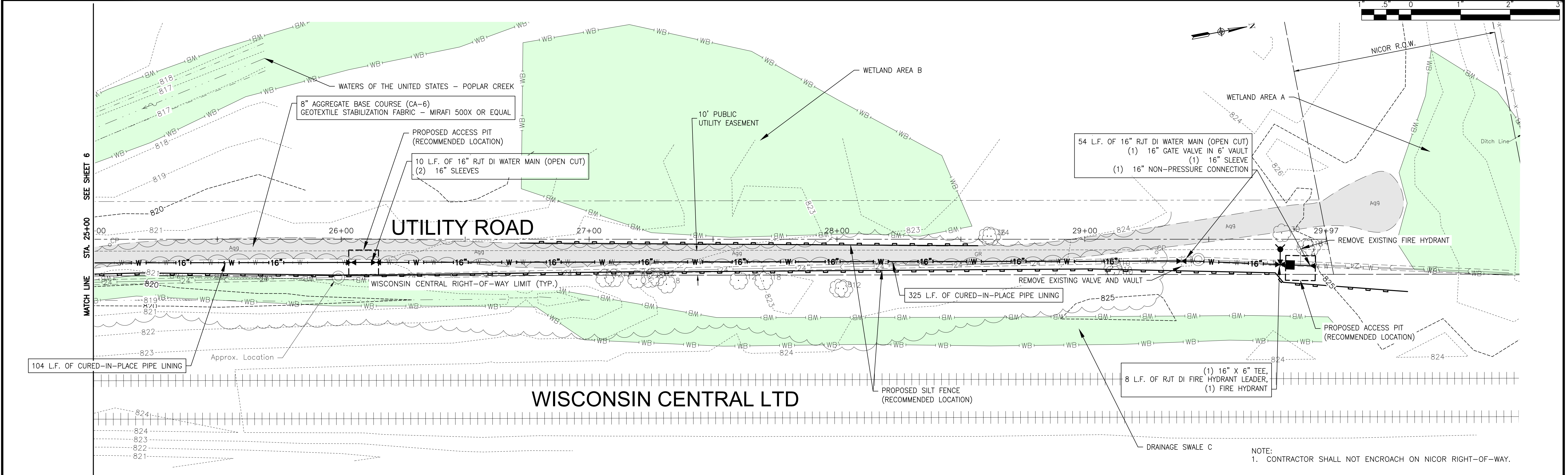
**VILLAGE OF HOFFMAN ESTATES, ILLINOIS
 SHOE FACTORY ROAD WATER MAIN REHABILITATION**

UTILITY ROAD STA. 20+00 TO STA 25+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2500360

DESIGNED - KPF	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	10	6
CHECKED - WJW		
DATE - 6/24/2026		

**FINAL DESIGN
 FOR BIDDING**

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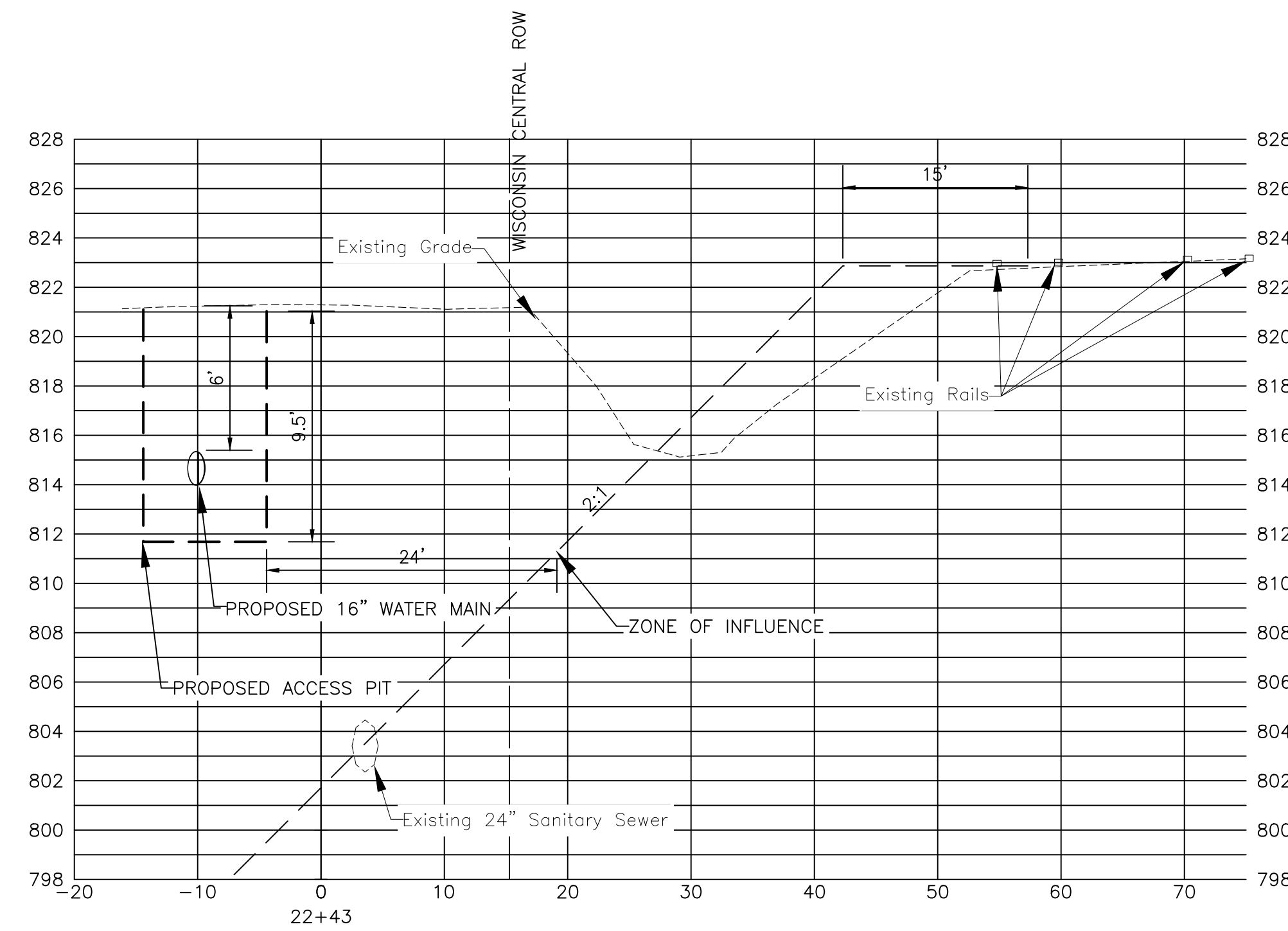
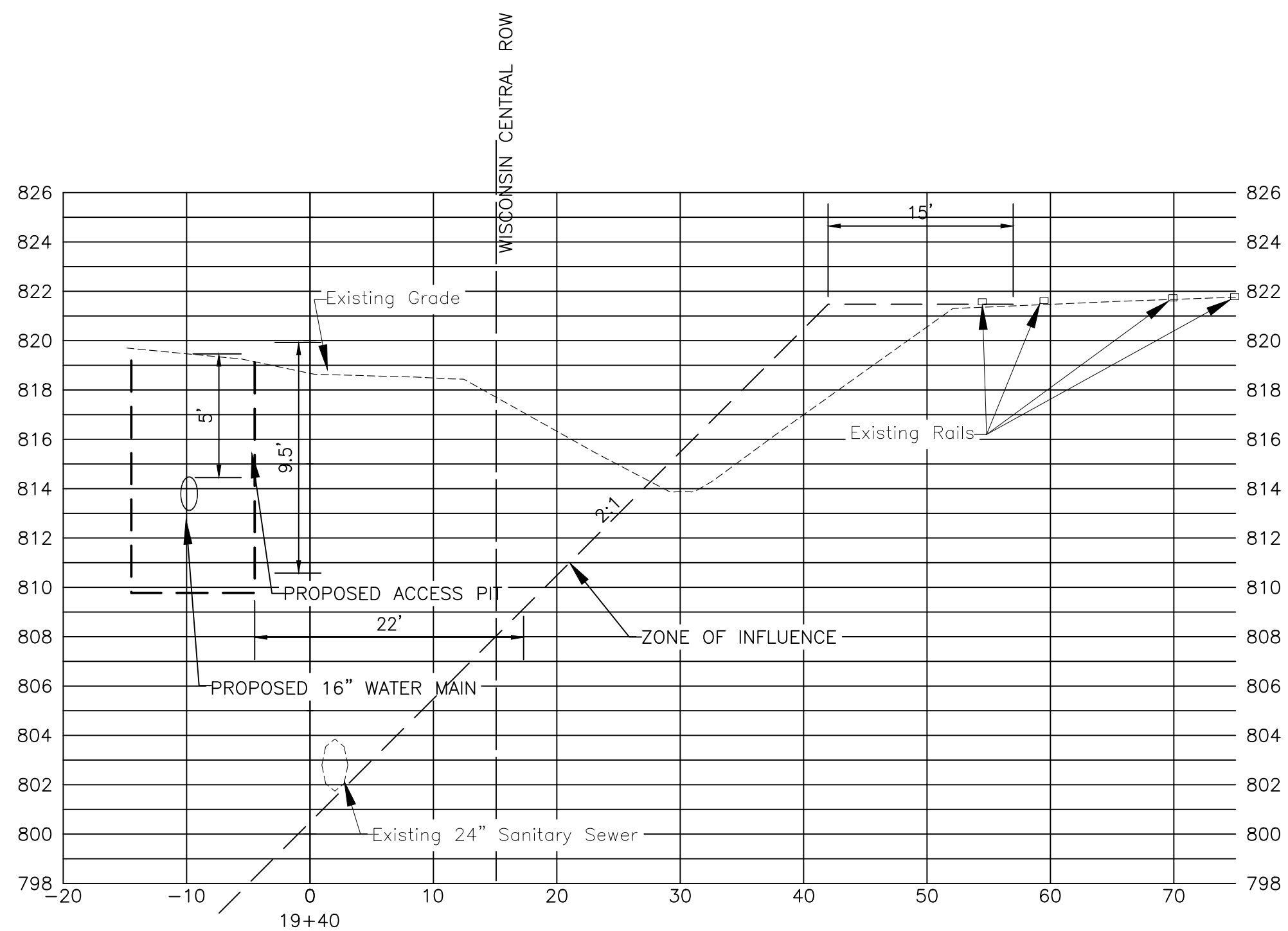
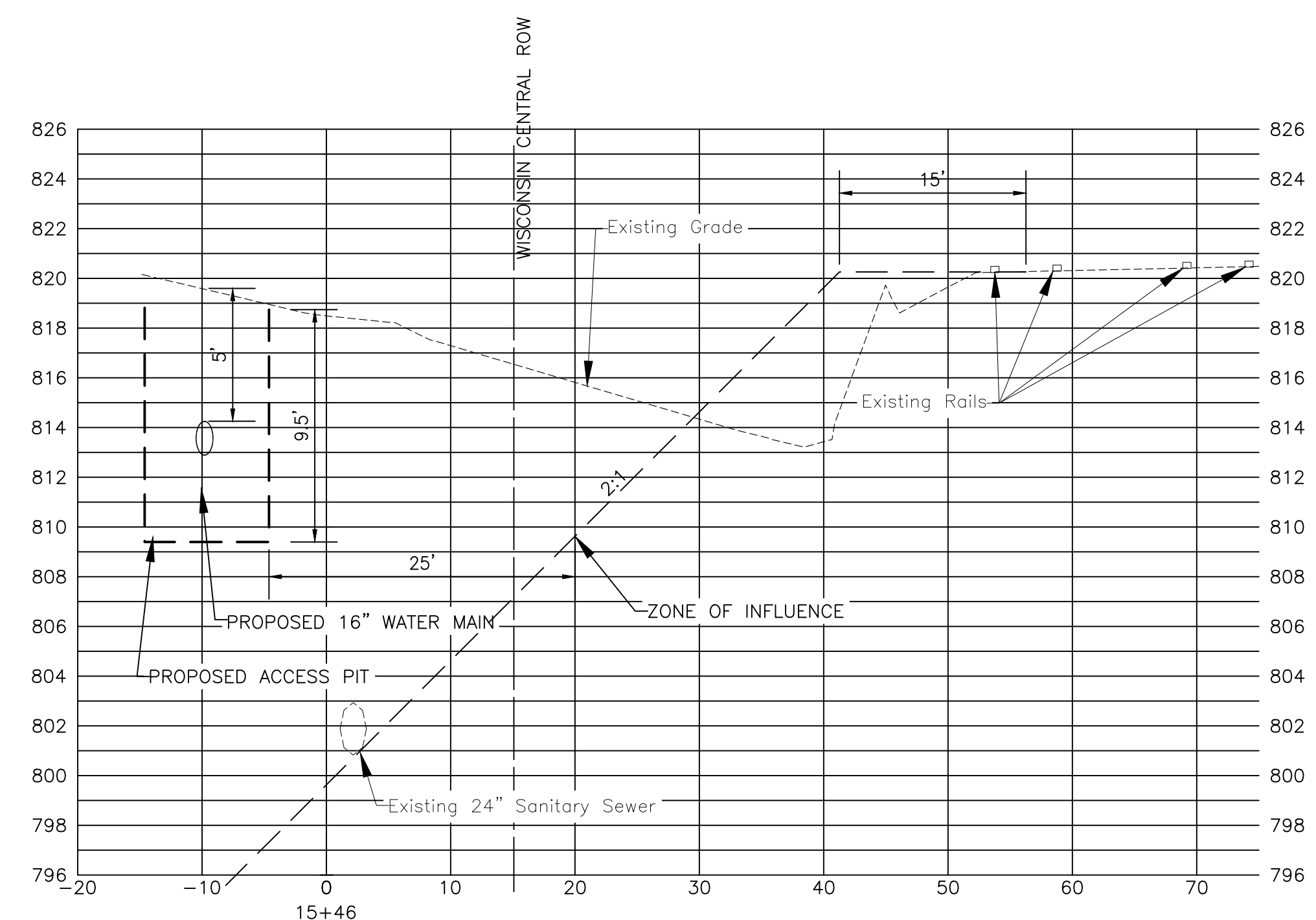
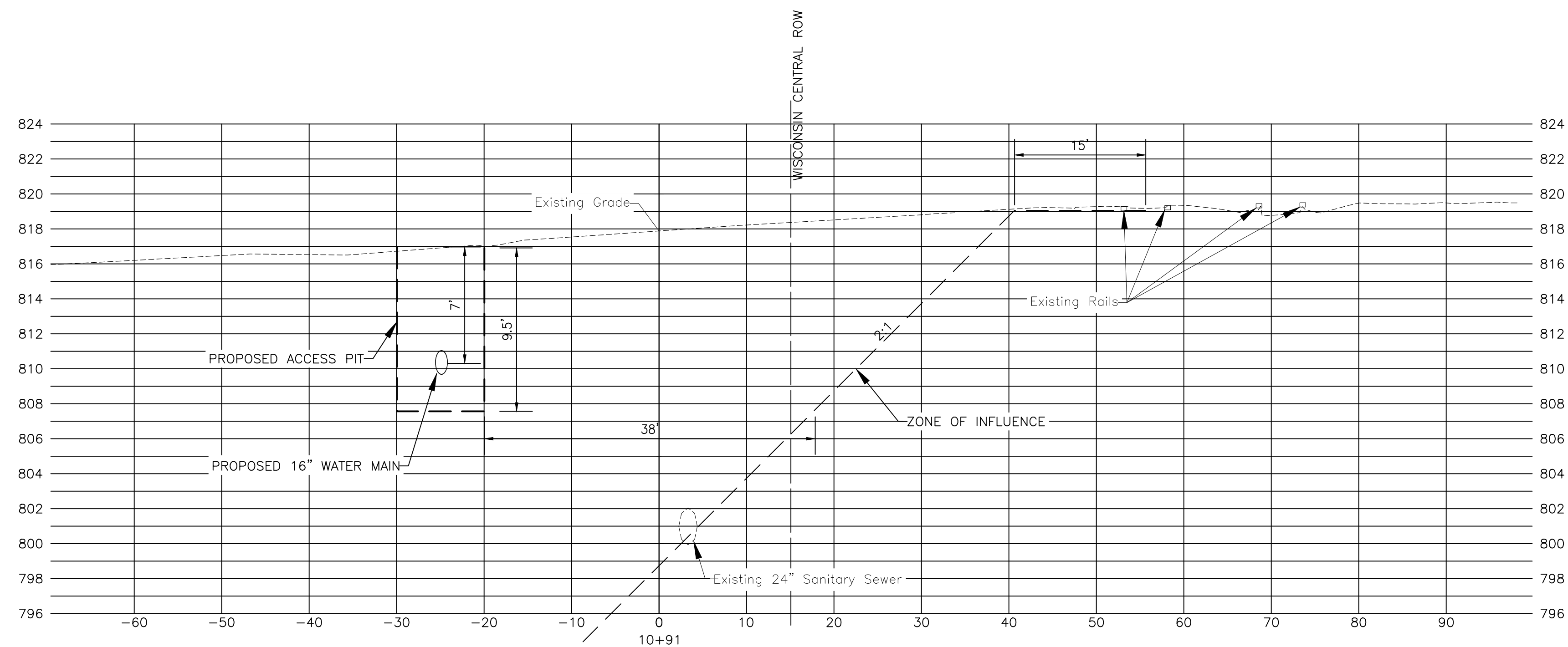


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**VILLAGE OF HOFFMAN ESTATES, ILLINOIS
 SHOE FACTORY ROAD WATER MAIN REHABILITATION**

UTILITY ROAD STA. 25+00 TO STA 29+97 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 2500360	DESIGNED - KPF	TOTAL SHEETS	SHEET NO.
		DRAWN - ABN	10	7
		CHECKED - WJW		
		DATE - 6/24/2026		



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**VILLAGE OF HOFFMAN ESTATES, ILLINOIS
 SHOE FACTORY ROAD WATER MAIN REHABILITATION**

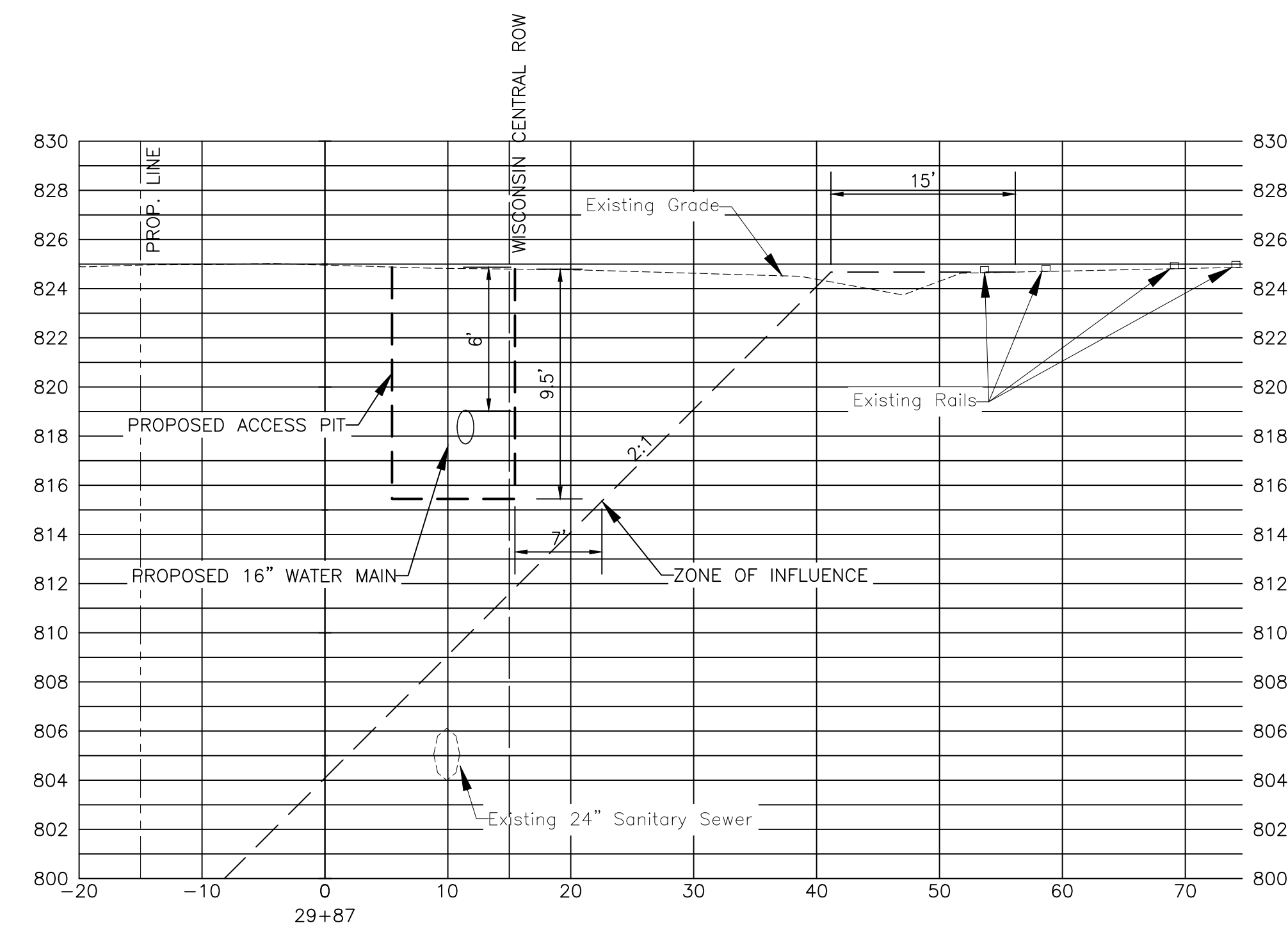
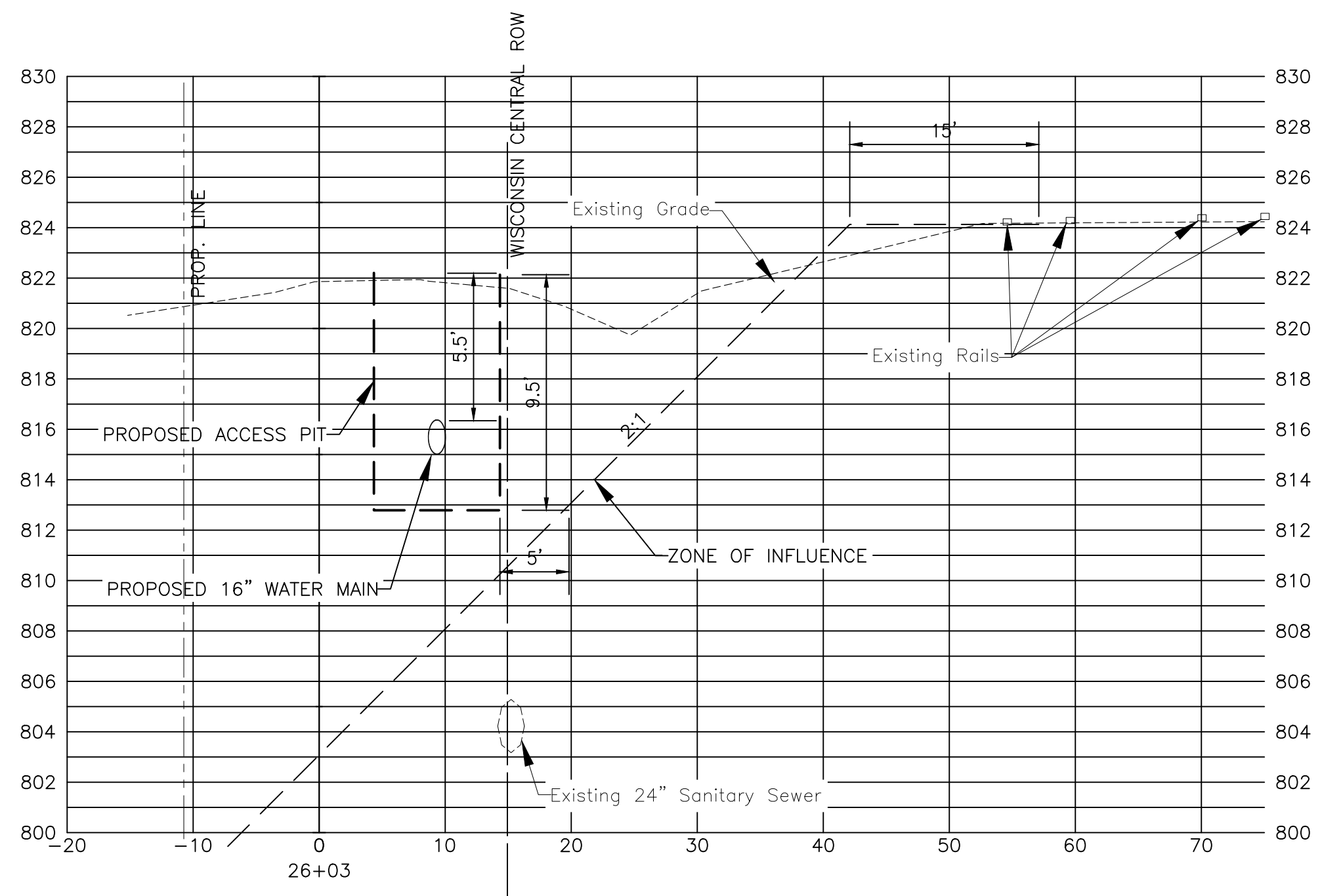
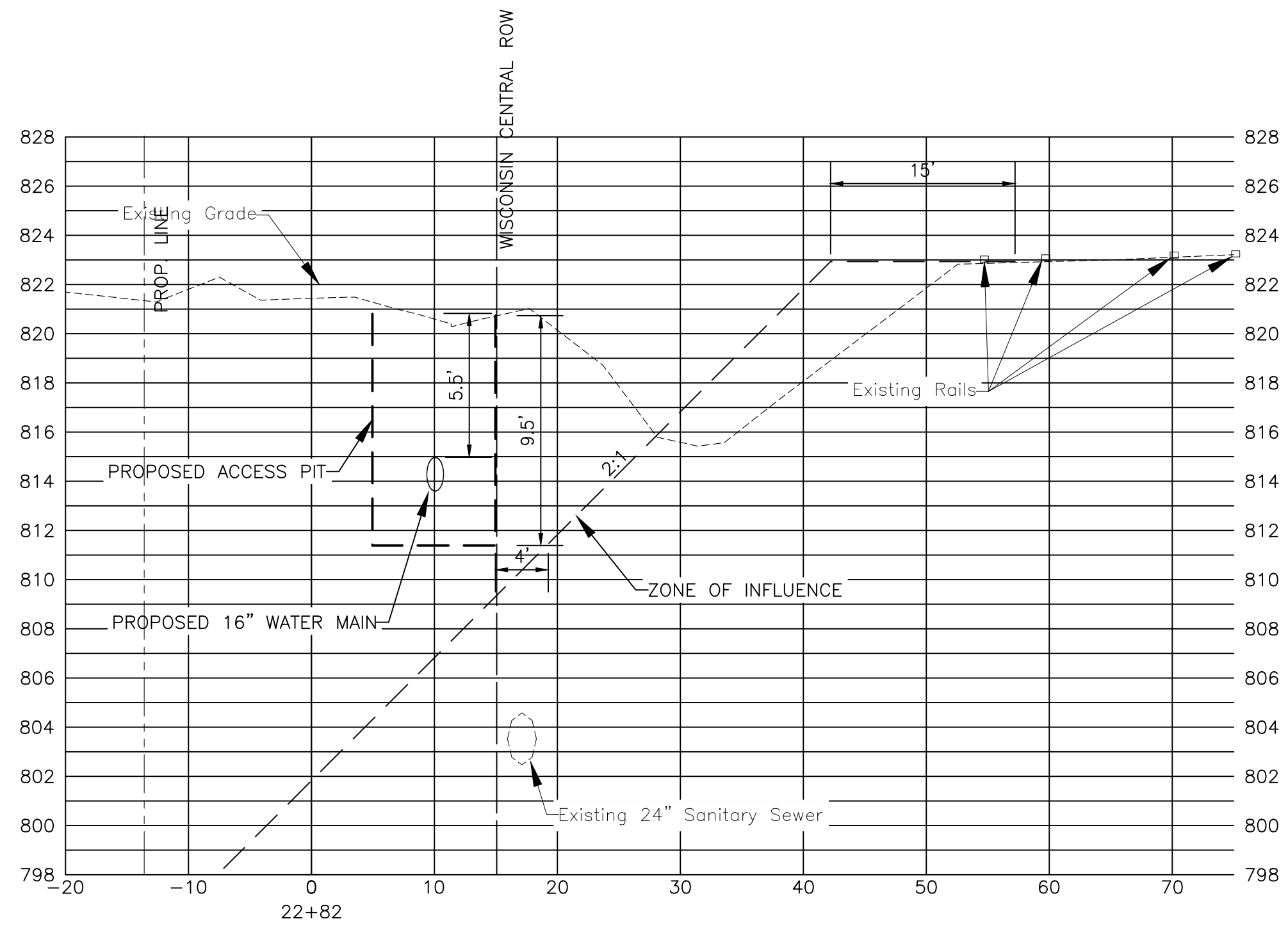
SCALE: HORIZ 1"=10' / VERT 1"=5'

CROSS SECTIONS

PROJECT NO: 2500360

DESIGNED - KPF	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	10	8
CHECKED - WJW		
DATE - 6/24/2026		

**FINAL DESIGN
 FOR BIDDING**



P:\OFFICE\2500360-SHOE FACTORY ROAD WATER MAIN REPLACEMENT\01_CIVIL_3D\01_SHIFTS-PLANS\2500360-CROSS_SECT.DWG XSEC (2)
 Plotted: 6/23/2026 9:34 AM By: JWORKSHAM
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CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

VILLAGE OF HOFFMAN ESTATES, ILLINOIS
 SHOE FACTORY ROAD WATER MAIN REHABILITATION

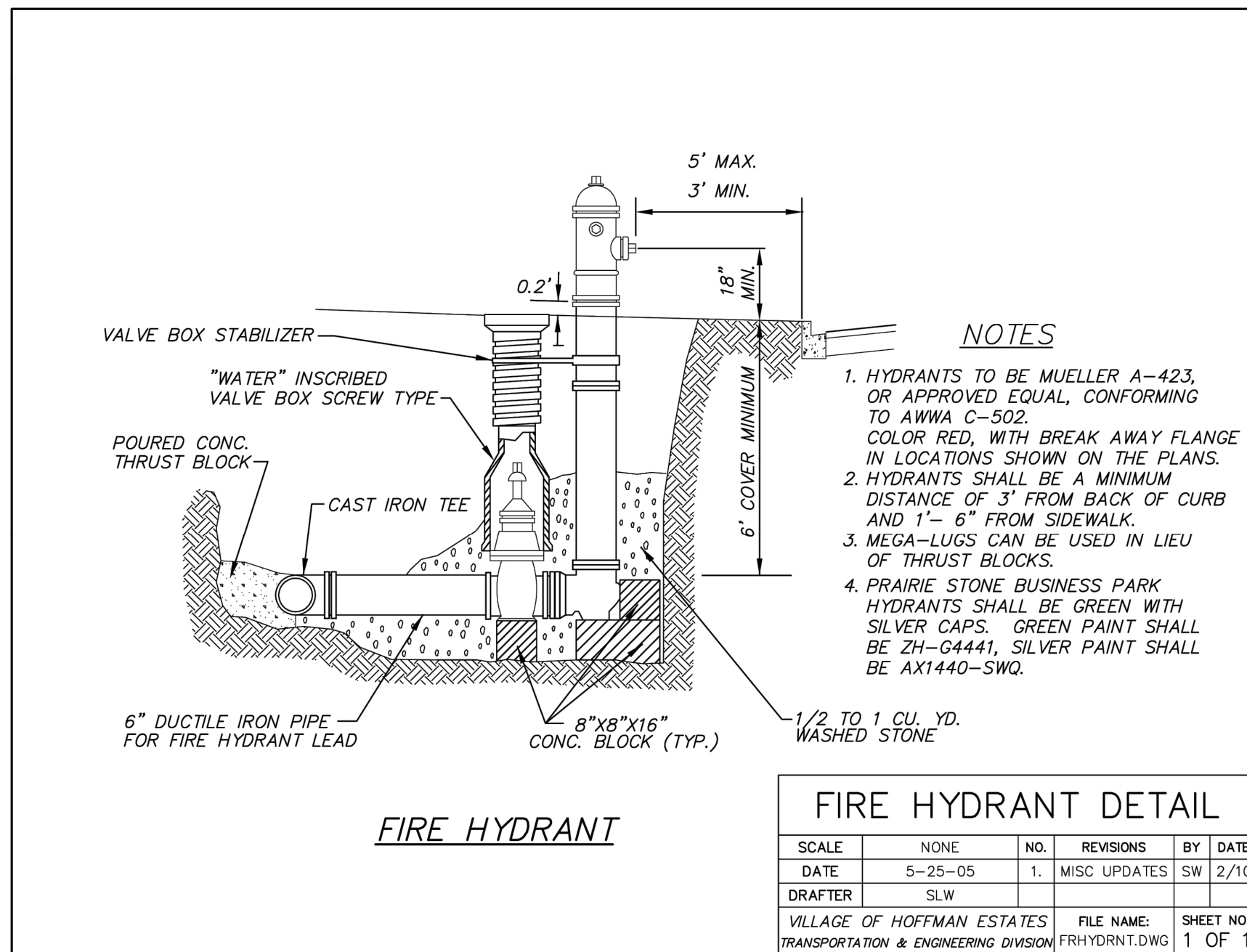
SCALE: HORIZ 1"=10' / VERT 1"=5'

CROSS SECTIONS

PROJECT NO: 2500360

DESIGNED - KPF	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	10	9
CHECKED - WJW		
DATE - 6/24/2026		

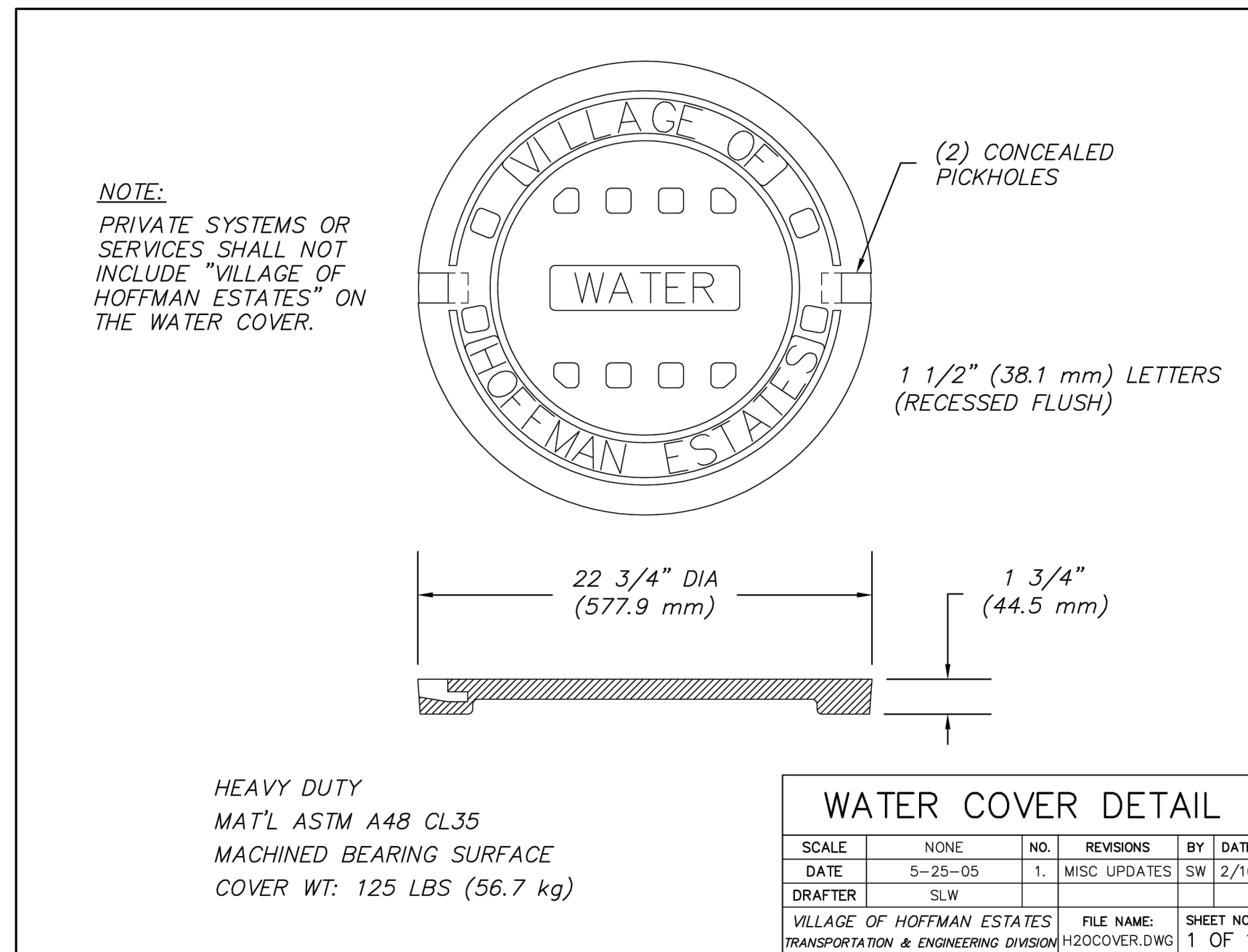
FINAL DESIGN
 FOR BIDDING



- NOTES**
- HYDRANTS TO BE MUELLER A-423, OR APPROVED EQUAL, CONFORMING TO AWWA C-502. COLOR RED, WITH BREAK AWAY FLANGE IN LOCATIONS SHOWN ON THE PLANS.
 - HYDRANTS SHALL BE A MINIMUM DISTANCE OF 3' FROM BACK OF CURB AND 1' - 6" FROM SIDEWALK.
 - MEGA-LUGS CAN BE USED IN LIEU OF THRUST BLOCKS.
 - PRAIRIE STONE BUSINESS PARK HYDRANTS SHALL BE GREEN WITH SILVER CAPS. GREEN PAINT SHALL BE ZH-G4441, SILVER PAINT SHALL BE AX1440-SWQ.

FIRE HYDRANT DETAIL

SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES	FILE NAME:	SHEET NO.			
TRANSPORTATION & ENGINEERING DIVISION	FRHYDRNT.DWG	1 OF 1			

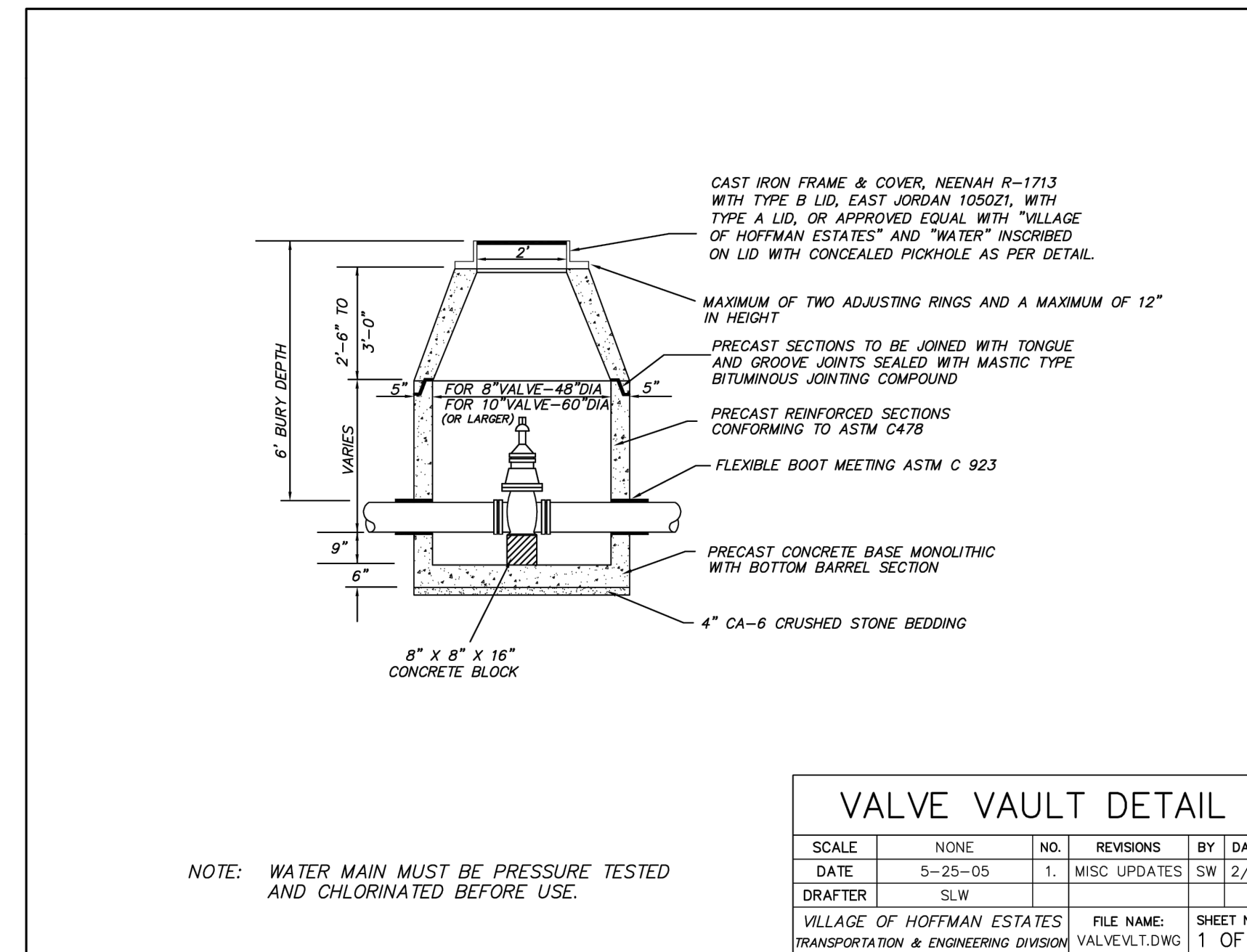


NOTE:
PRIVATE SYSTEMS OR SERVICES SHALL NOT INCLUDE "VILLAGE OF HOFFMAN ESTATES" ON THE WATER COVER.

HEAVY DUTY
MAT'L ASTM A48 CL35
MACHINED BEARING SURFACE
COVER WT: 125 LBS (56.7 kg)

WATER COVER DETAIL

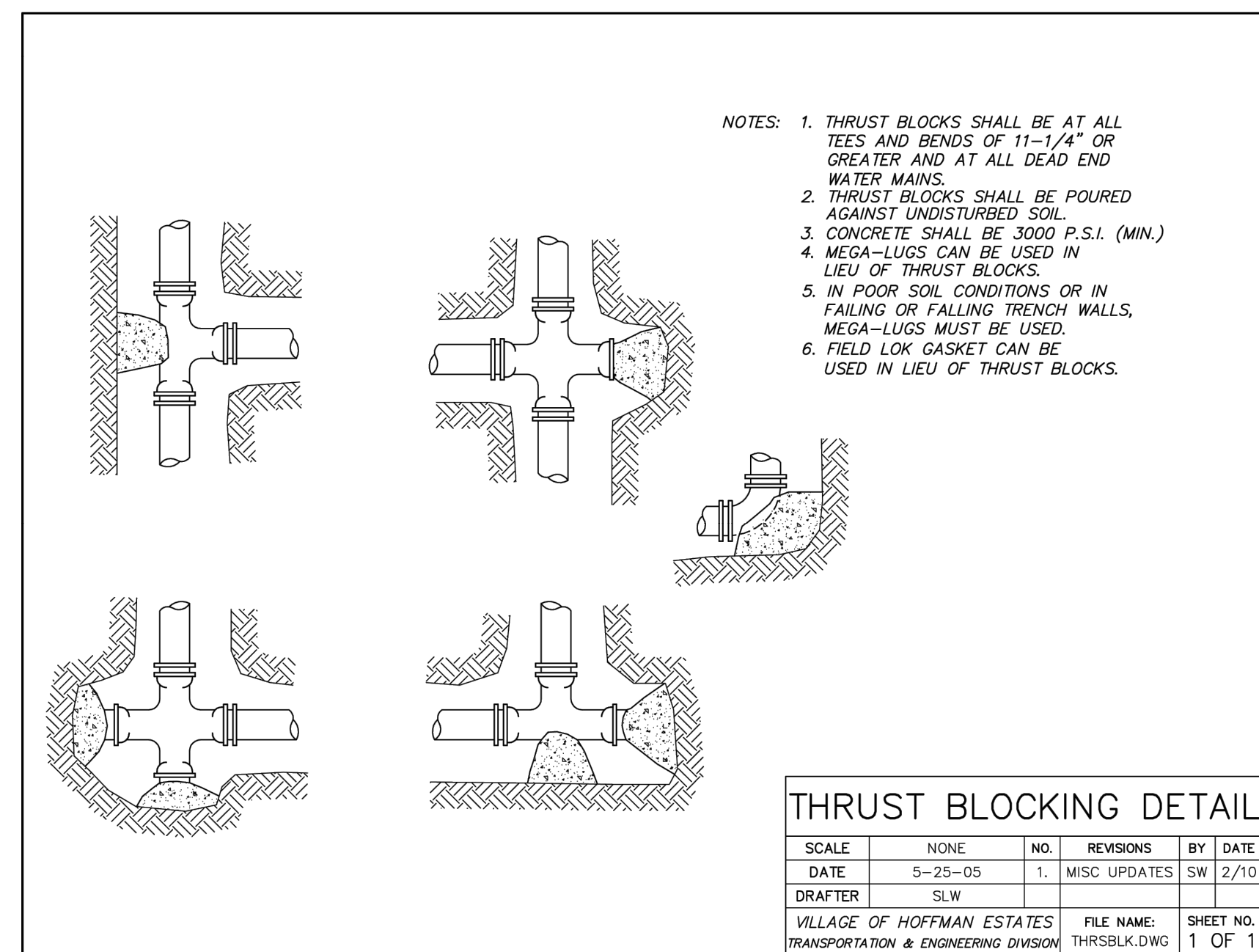
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DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES	FILE NAME:	SHEET NO.			
TRANSPORTATION & ENGINEERING DIVISION	H20COVER.DWG	1 OF 1			



NOTE: WATER MAIN MUST BE PRESSURE TESTED AND CHLORINATED BEFORE USE.

VALVE VAULT DETAIL

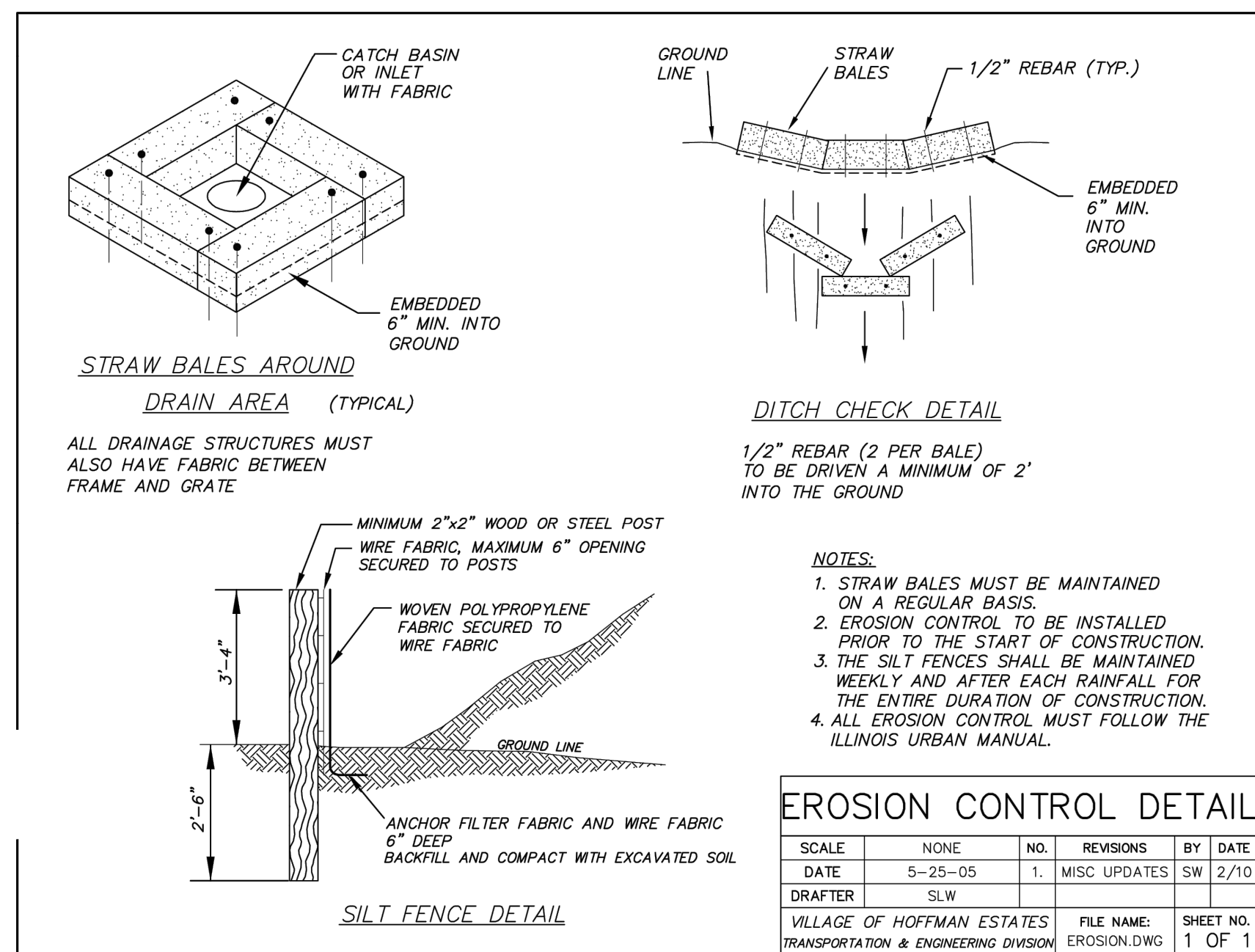
SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES	FILE NAME:	SHEET NO.			
TRANSPORTATION & ENGINEERING DIVISION	VALVEVLT.DWG	1 OF 1			



- NOTES:**
- THRUST BLOCKS SHALL BE AT ALL TEES AND BENDS OF 1 1/4" OR GREATER AND AT ALL DEAD END WATER MAINS.
 - THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
 - CONCRETE SHALL BE 3000 P.S.I. (MIN.)
 - MEGA-LUGS CAN BE USED IN LIEU OF THRUST BLOCKS.
 - IN POOR SOIL CONDITIONS OR IN FAILING OR FALLING TRENCH WALLS, MEGA-LUGS MUST BE USED.
 - FIELD LOK GASKET CAN BE USED IN LIEU OF THRUST BLOCKS.

THRUST BLOCKING DETAIL

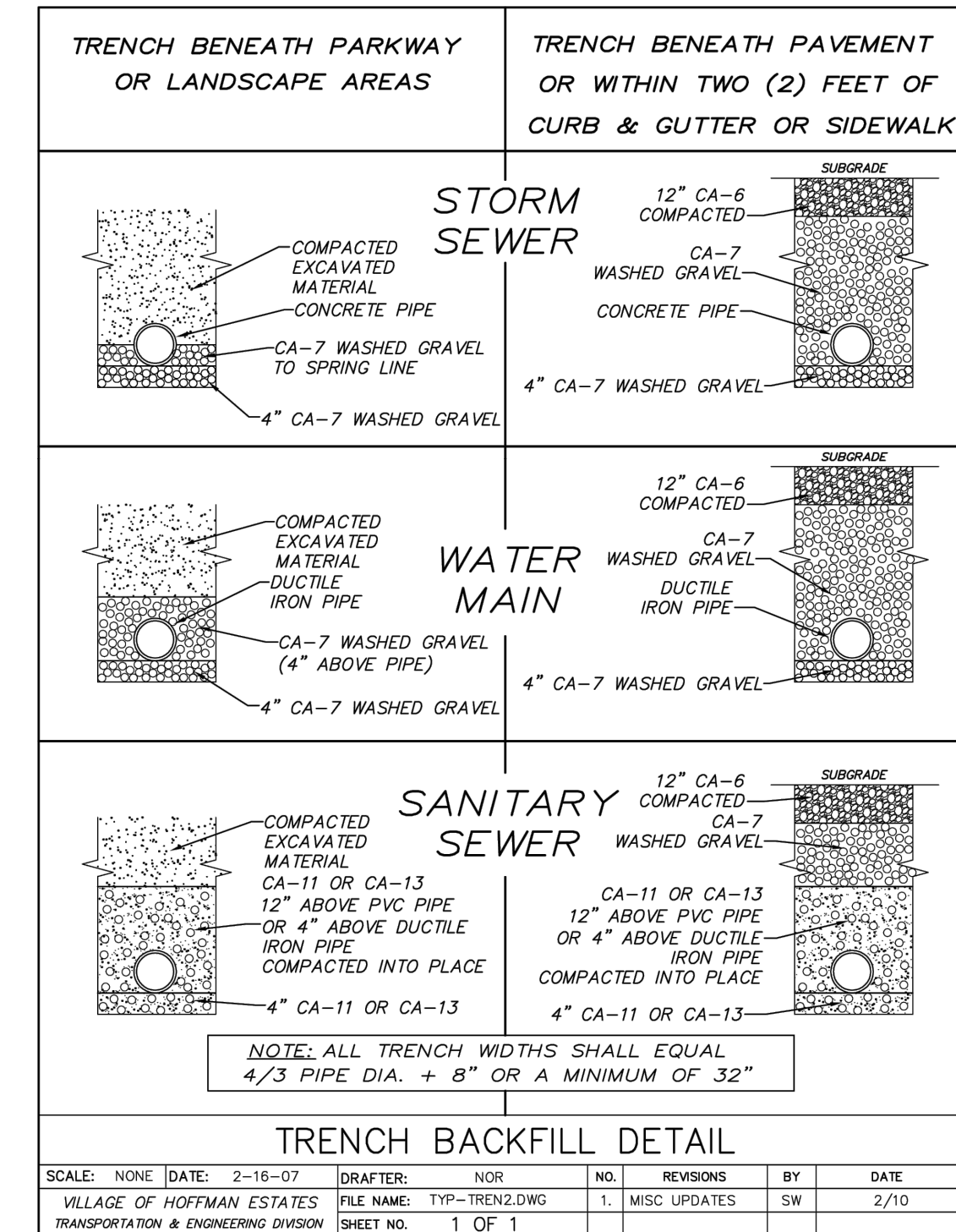
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DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES	FILE NAME:	SHEET NO.			
TRANSPORTATION & ENGINEERING DIVISION	THRSLBK.DWG	1 OF 1			



- NOTES:**
- STRAW BALES MUST BE MAINTAINED ON A REGULAR BASIS.
 - EROSION CONTROL TO BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
 - THE SILT FENCES SHALL BE MAINTAINED WEEKLY AND AFTER EACH RAINFALL FOR THE ENTIRE DURATION OF CONSTRUCTION.
 - ALL EROSION CONTROL MUST FOLLOW THE ILLINOIS URBAN MANUAL.

EROSION CONTROL DETAIL

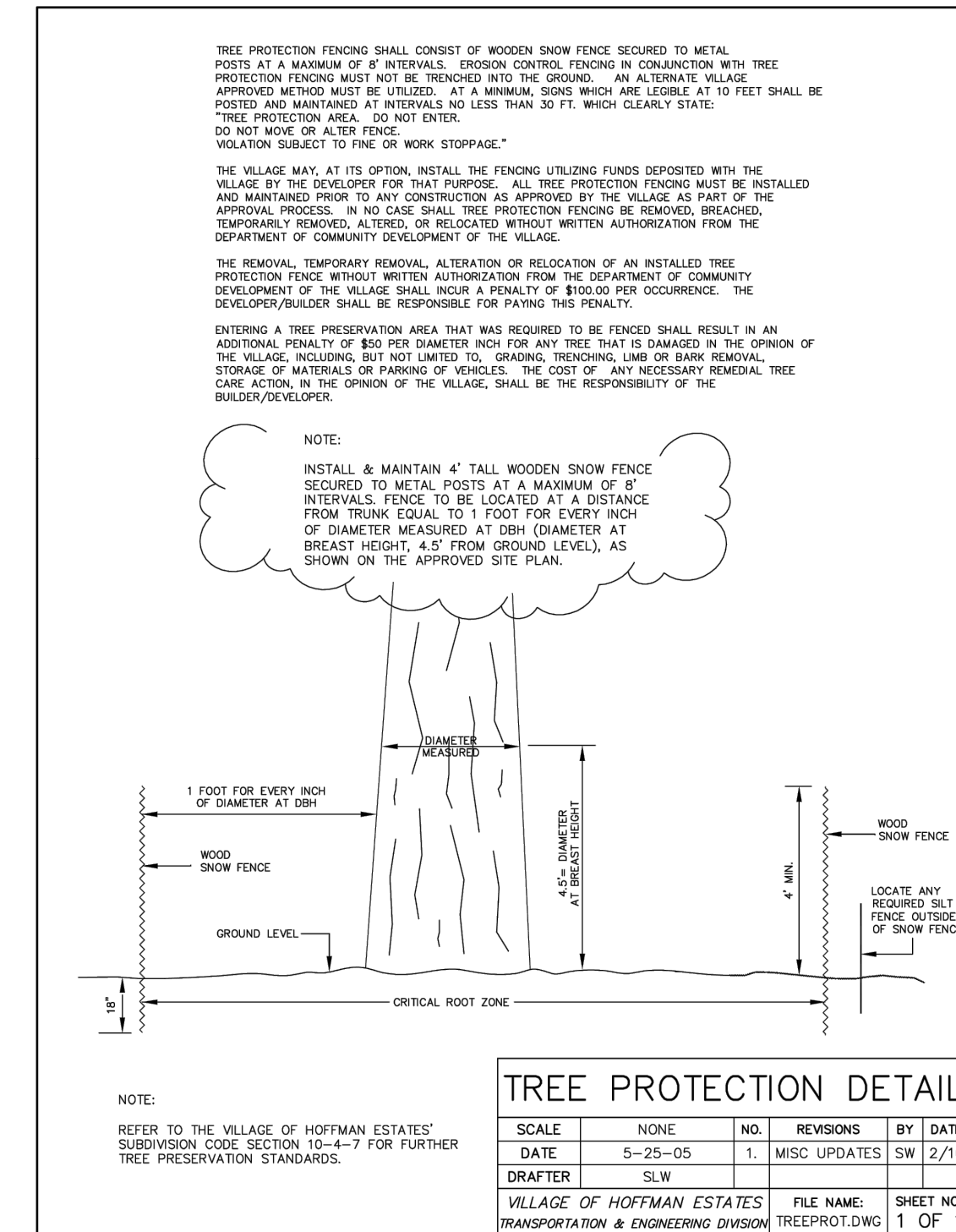
SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES	FILE NAME:	SHEET NO.			
TRANSPORTATION & ENGINEERING DIVISION	EROSION.DWG	1 OF 1			



NOTE: ALL TRENCH WIDTHS SHALL EQUAL 4/3 PIPE DIA. + 8" OR A MINIMUM OF 32"

TRENCH BACKFILL DETAIL

SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	2-16-07				
DRAFTER	NOR				
VILLAGE OF HOFFMAN ESTATES	FILE NAME:	SHEET NO.			
TRANSPORTATION & ENGINEERING DIVISION	TYP-TRENZ.DWG	1 OF 1			



NOTE:
INSTALL & MAINTAIN 4' TALL WOODEN SNOW FENCE SECURED TO METAL POSTS AT A MAXIMUM OF 8' INTERVALS. FENCE TO BE LOCATED AT A DISTANCE FROM TRUNK EQUAL TO 1 FOOT FOR EVERY INCH OF DIAMETER MEASURED AT DBH (DIAMETER AT BREAST HEIGHT, 4.5' FROM GROUND LEVEL), AS SHOWN ON THE APPROVED SITE PLAN.

TREE PROTECTION DETAIL

SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES	FILE NAME:	SHEET NO.			
TRANSPORTATION & ENGINEERING DIVISION	TREEPROT.DWG	1 OF 1			

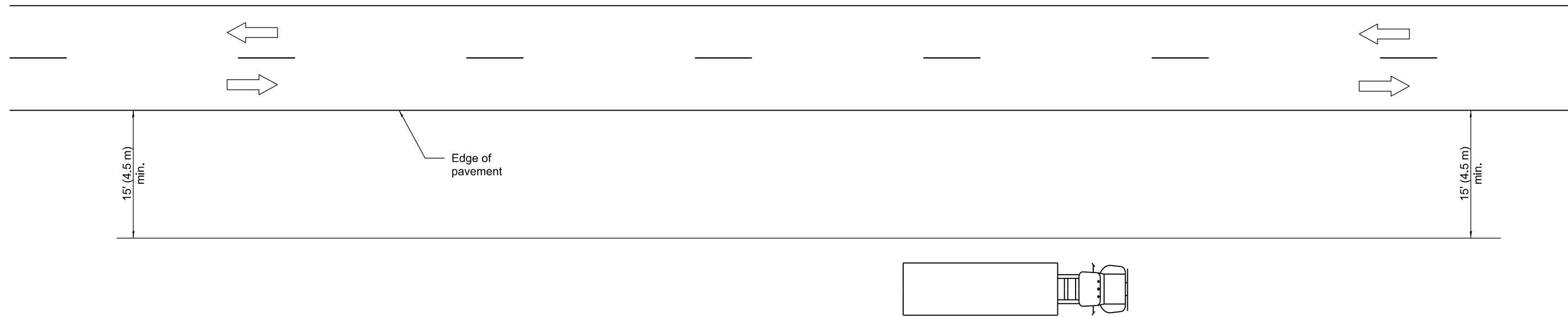
P:\OFFICE\2500360-SHOE FACTORY ROAD WATER MAIN REPAIR\CAD\01_CIVIL_3D\01_SHITS-PLANS\2500360-COVER.DWG DETAILS
 Plotted: 6/23/2026 9:35 AM By: JWORKSHAM
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CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**VILLAGE OF HOFFMAN ESTATES, ILLINOIS
SHOE FACTORY ROAD WATER MAIN REHABILITATION**

SCALE:	AS NOTED	PROJECT NO:	2500360
GENERAL STANDARD DETAILS			
DESIGNED -	KPF	TOTAL SHEETS	10
DRAWN -	ABN	SHEET NO.	10
CHECKED -	WJW		
DATE	6/24/2026		



TYPICAL APPLICATIONS


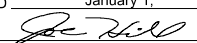
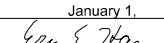
- Landscaping work
- Utility work
- Fencing contracts and maintenance
- Cleaning culverts

GENERAL NOTES

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

All dimensions are in inches (millimeters) unless otherwise shown.

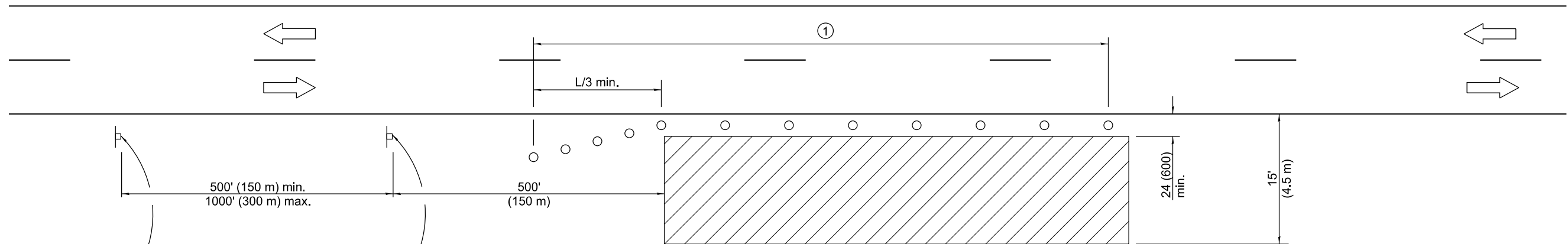
 Illinois Department of Transportation
 APPROVED January 1, 2009

 ENGINEER OF OPERATIONS
 APPROVED January 1, 2009

 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Revised title and notes.

**OFF-RD OPERATIONS,
 2L, 2W, MORE THAN
 15' (4.5 m) AWAY**

STANDARD 701001-02



For contract construction projects

ROAD CONSTRUCTION AHEAD

W20-1103(0)-48

W21-1(0)-48

For maintenance and utility projects

ROAD WORK AHEAD




W20-1(0)-48

TYPICAL APPLICATIONS

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

SYMBOLS

-  Work area
-  Sign
-  Cone, drum or barricade

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

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).

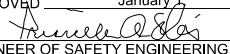
All dimensions are in inches (millimeters) unless otherwise shown.

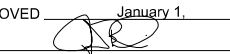
DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

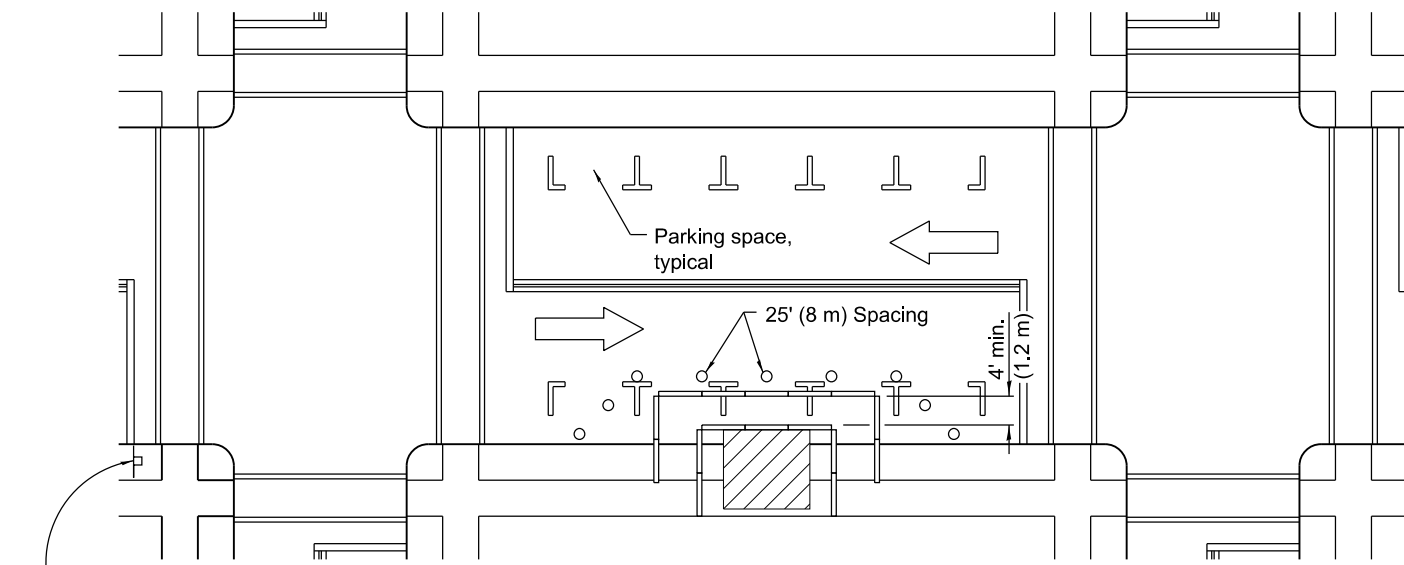
STANDARD 701006-05

Illinois Department of Transportation

APPROVED January 1, 2014

 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014

 ENGINEER OF DESIGN AND ENVIRONMENT

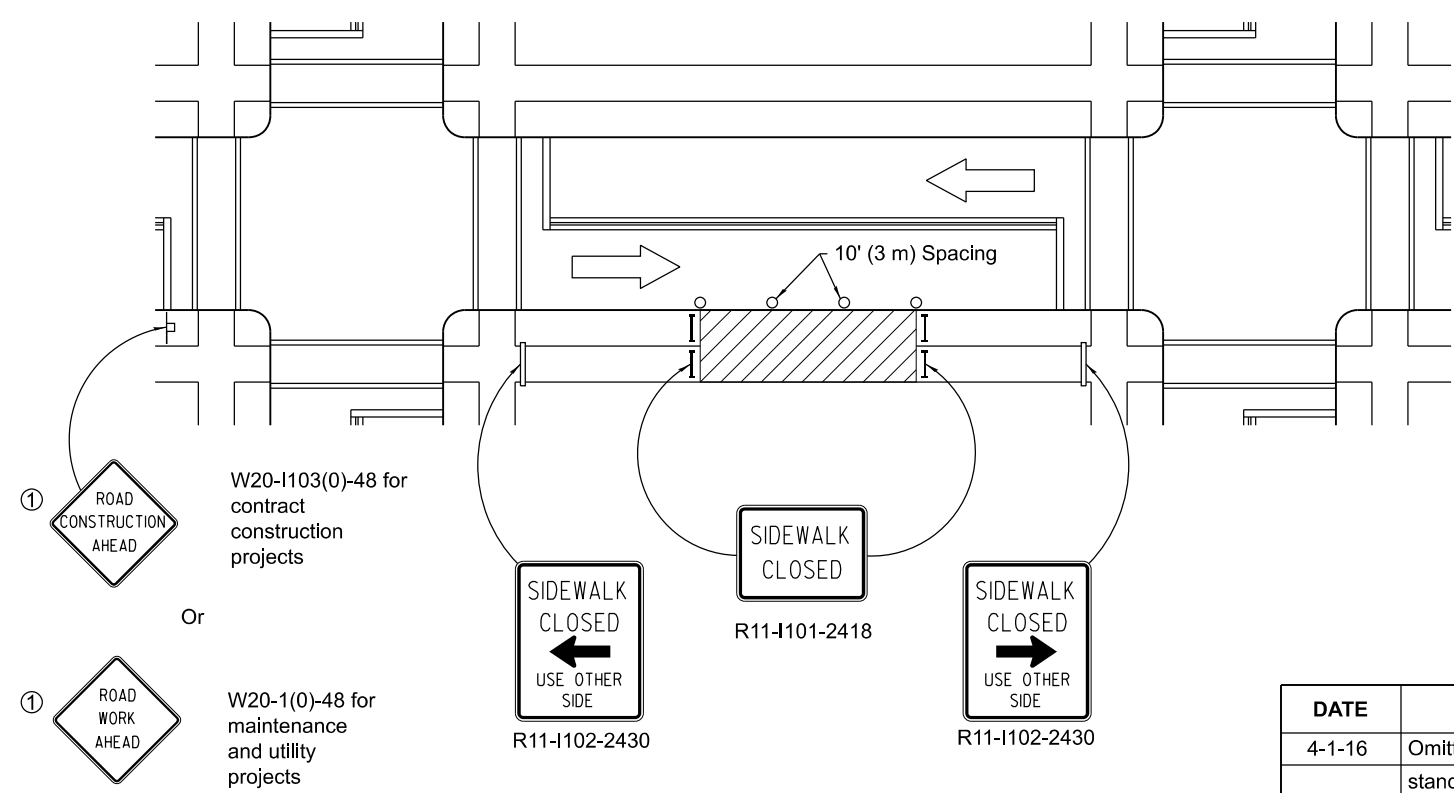
ISSUED 1-1-97



① ROAD CONSTRUCTION AHEAD
W20-I103(0)-48 for contract construction projects

Or
① ROAD WORK AHEAD
W20-1(0)-48 for maintenance and utility projects

SIDEWALK DIVERSION



① ROAD CONSTRUCTION AHEAD
W20-I103(0)-48 for contract construction projects

Or
① ROAD WORK AHEAD
W20-1(0)-48 for maintenance and utility projects

R11-I102-2430
SIDEWALK CLOSED
USE OTHER SIDE

R11-I101-2418
SIDEWALK CLOSED

R11-I102-2430
SIDEWALK CLOSED
USE OTHER SIDE

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.

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

Illinois Department of Transportation

APPROVED January 1, 2016
Amelia A. Davis
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2016
CR
ENGINEER OF DESIGN AND ENVIRONMENT

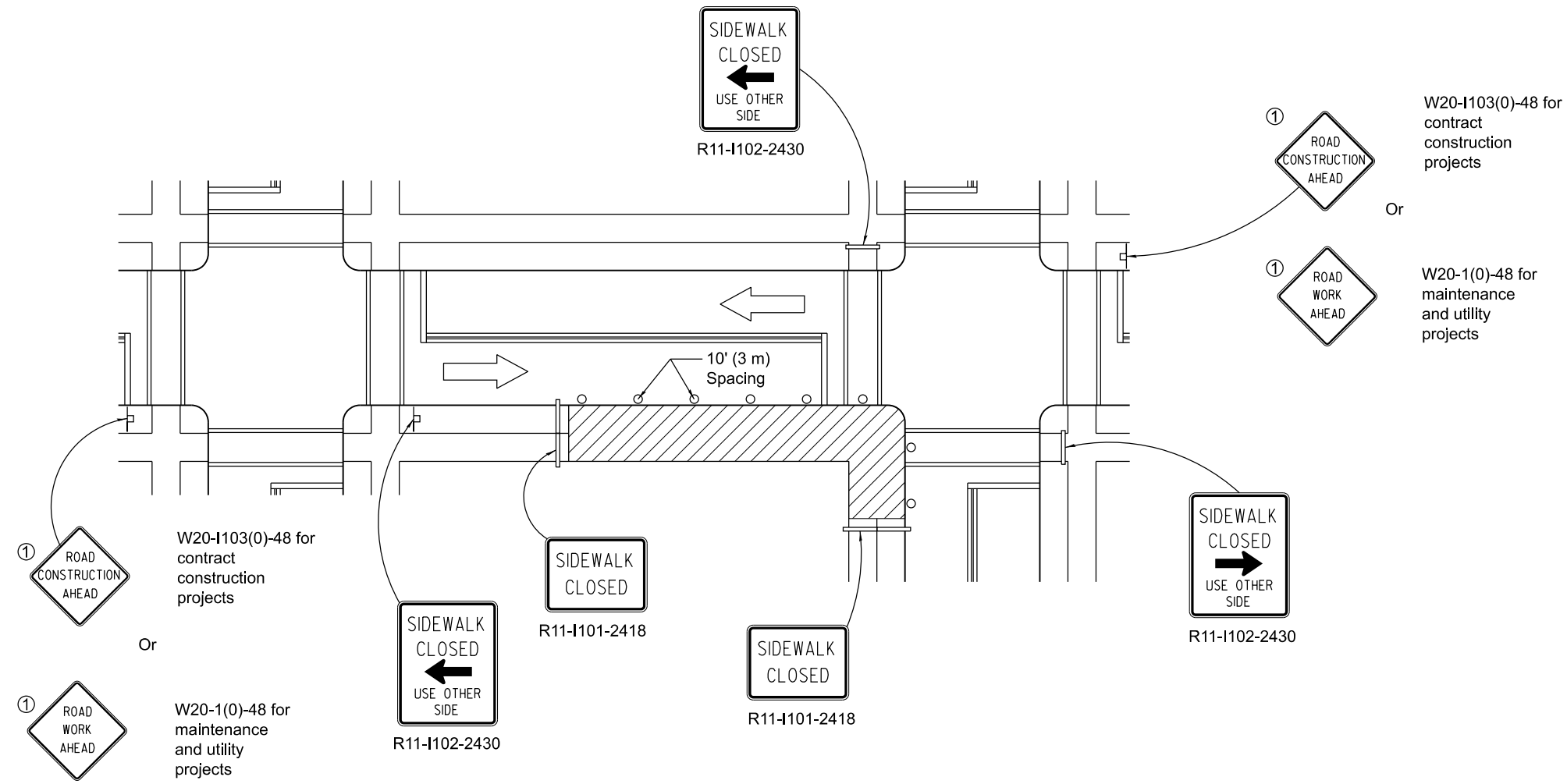
ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the standard spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views.
	Renamed Standard.

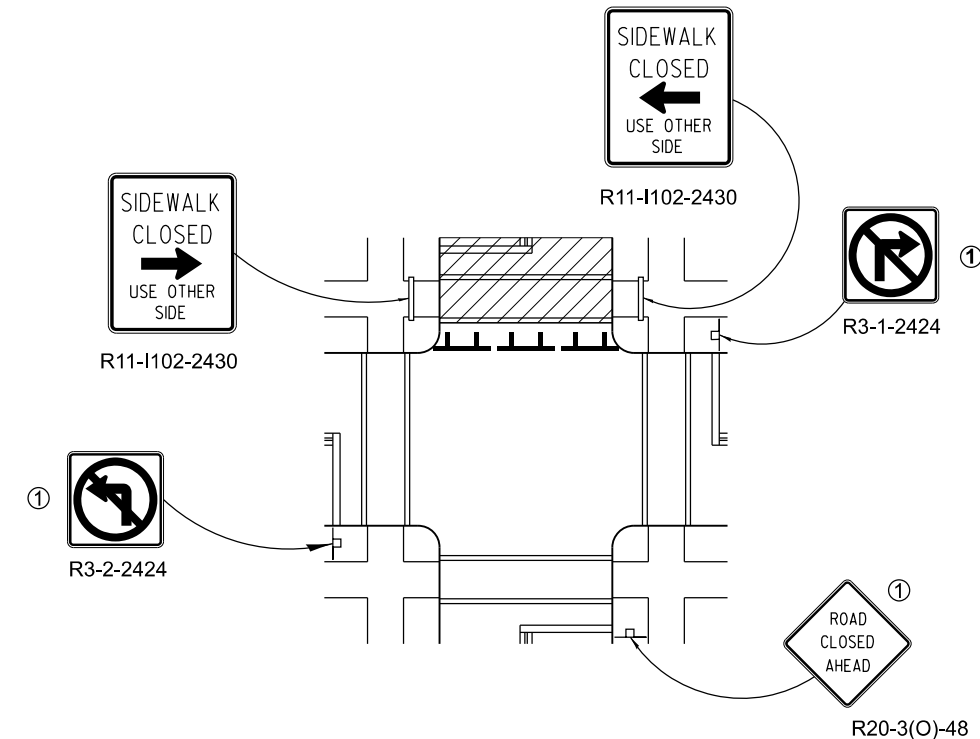
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06



CORNER CLOSURE



CROSSWALK CLOSURE

W20-I103(0)-48 for contract construction projects
Or
W20-1(0)-48 for maintenance and utility projects

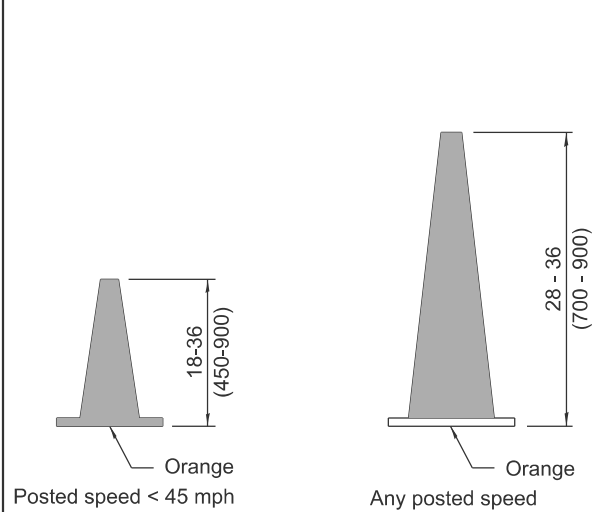
SIDEWALK, CORNER OR CROSSWALK CLOSURE
(Sheet 2 of 2)
STANDARD 701801-06

Illinois Department of Transportation

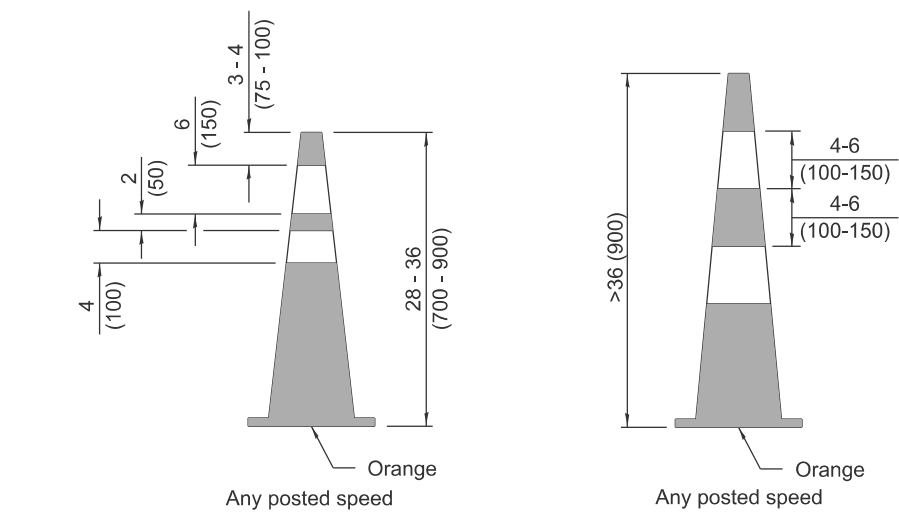
APPROVED January 1, 2016
[Signature]
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

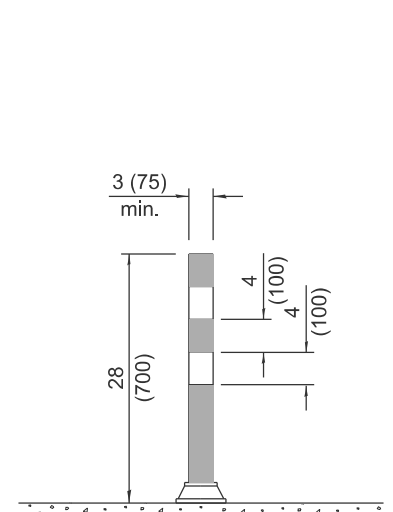


DAYTIME USE

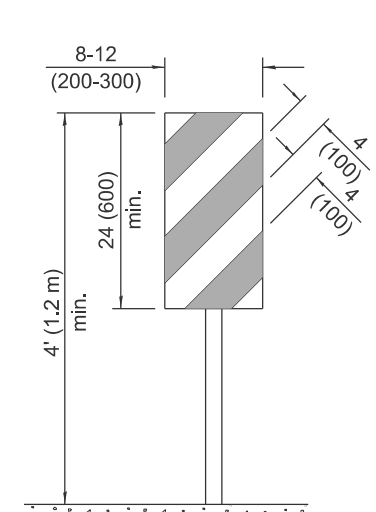


DAY OR NIGHTTIME USE

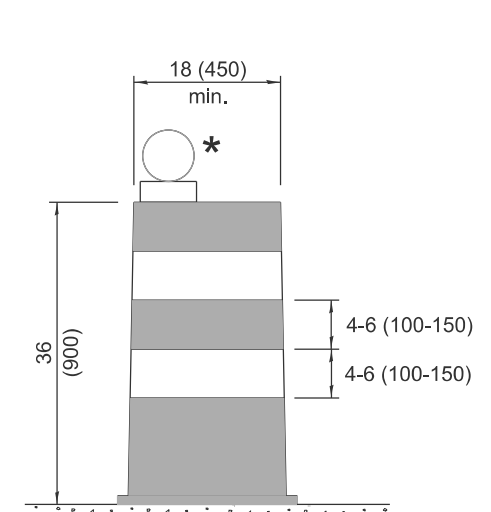
CONES



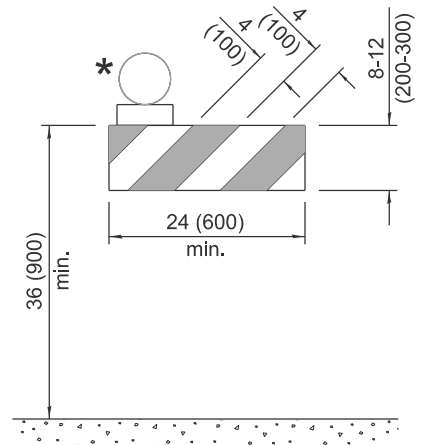
TUBULAR MARKER



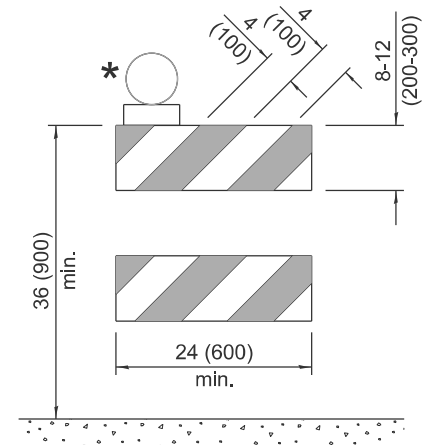
**VERTICAL PANEL
POST MOUNTED**



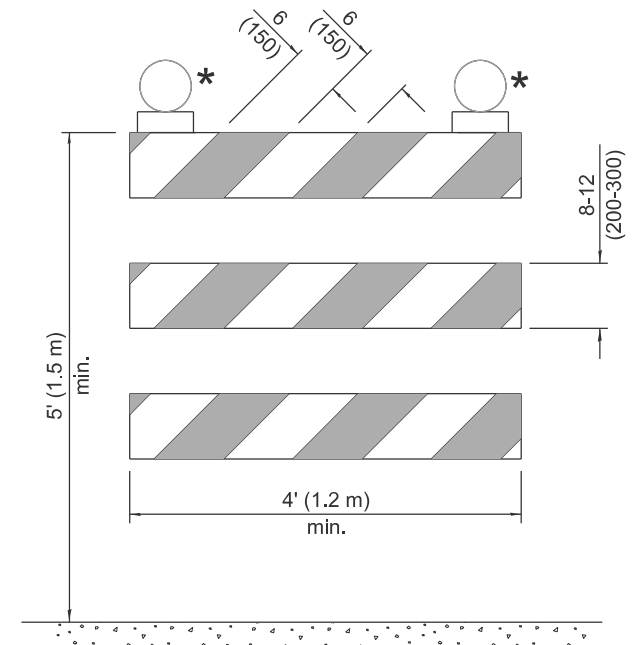
DRUM



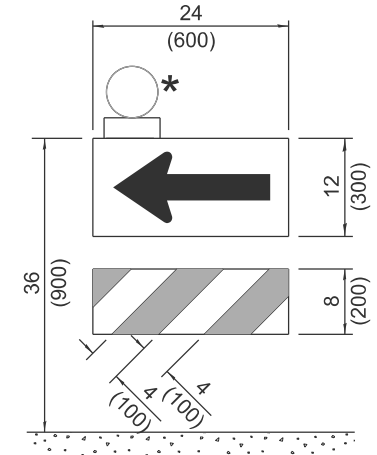
TYPE I BARRICADE



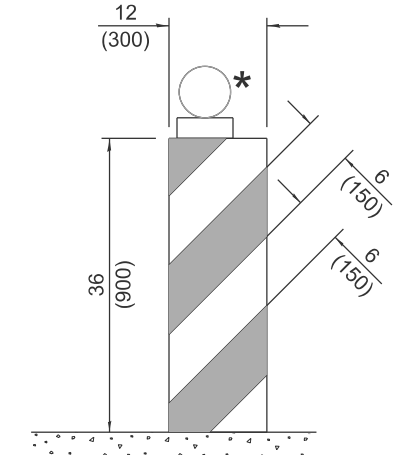
TYPE II BARRICADE



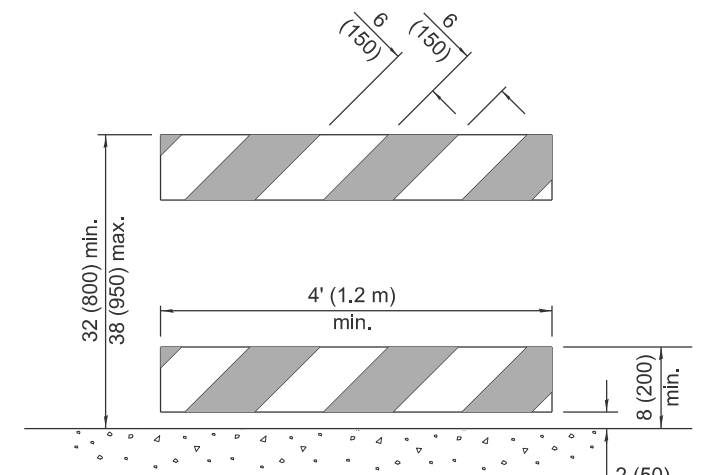
TYPE III BARRICADE



**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
1-1-26	Updated Detectable Pedestrian Channelizing Barricade (sht. 1) & Temporary Rumble Strips details (sht. 3)
1-1-25	Updated Temporary Rumble Strip Detail (sht. 3).

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

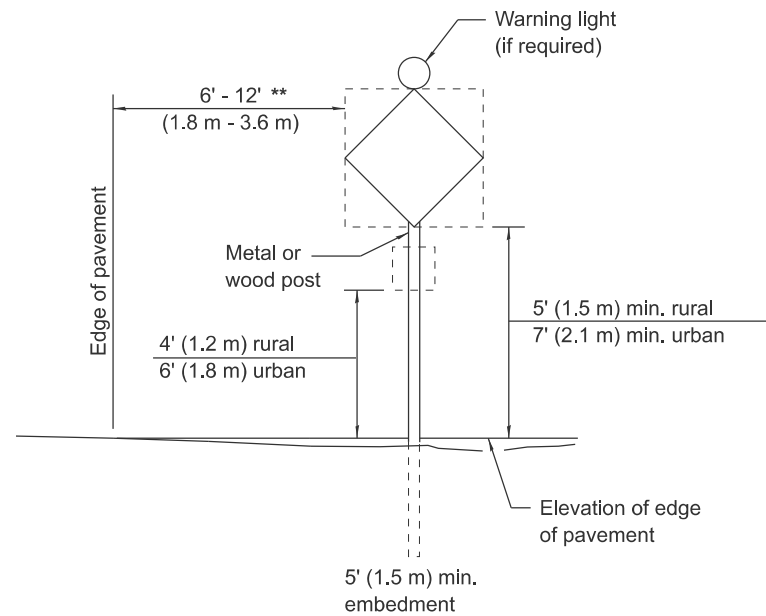
STANDARD 701901-11

Illinois Department of Transportation

APPROVED January 1, 2026
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2026
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13



POST MOUNTED SIGNS

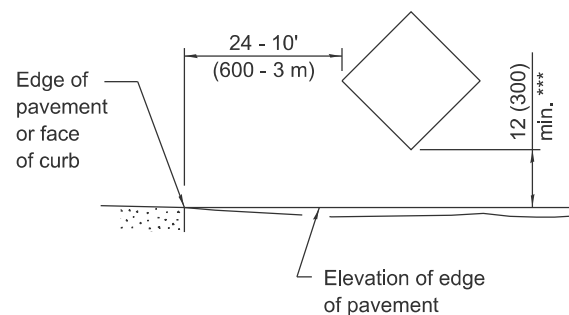
** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



W12-1103-4848

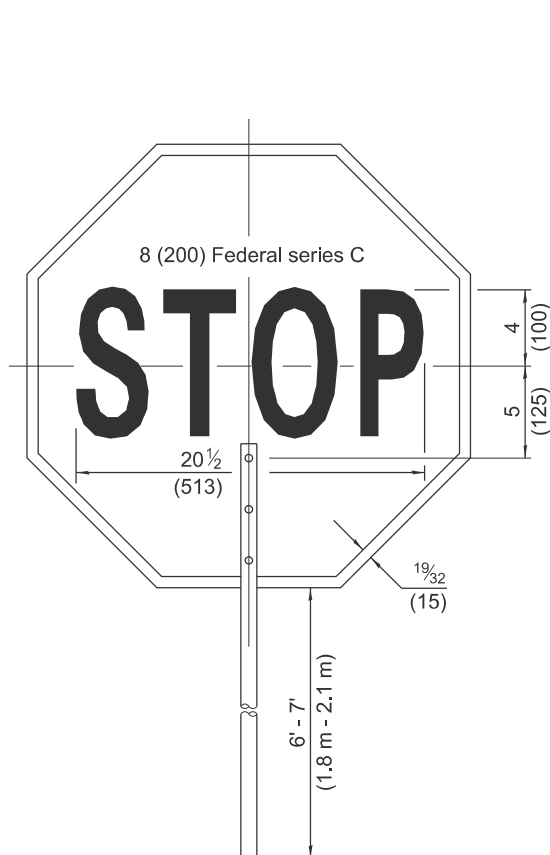
WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.

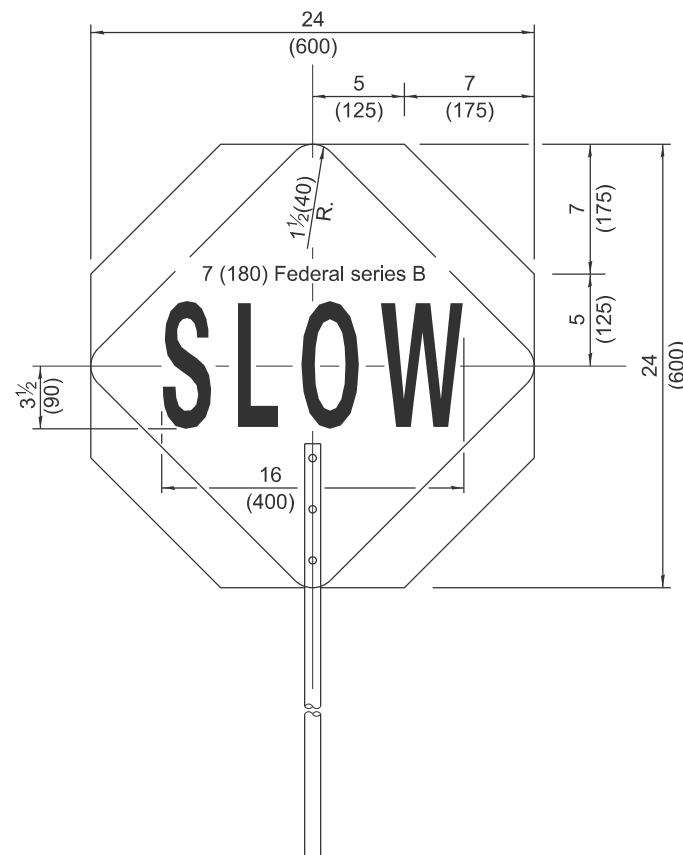


SIGNS ON TEMPORARY SUPPORTS

*** 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.

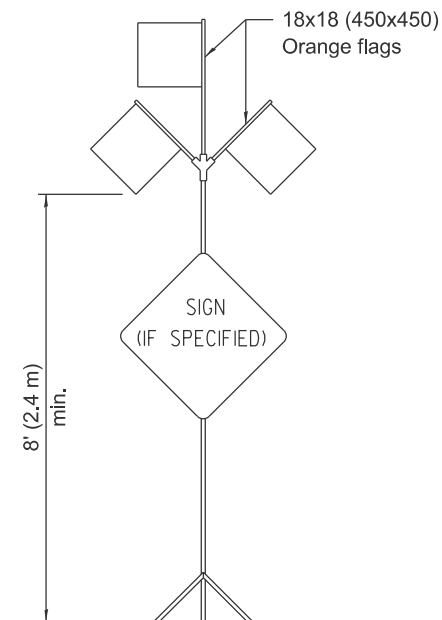


FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN



HIGH LEVEL WARNING DEVICE



G20-1104(0)-6036



G20-1105(0)-6024

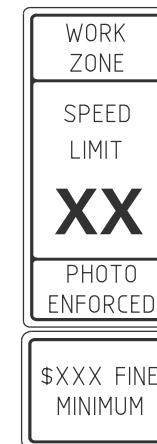
This signing is required for all projects 2 miles (3200 m) or more in length.

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



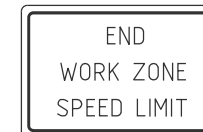
W21-1115(0)-3618

R2-1-3648

R10-1108p-3618 ****

R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-1103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-1108p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

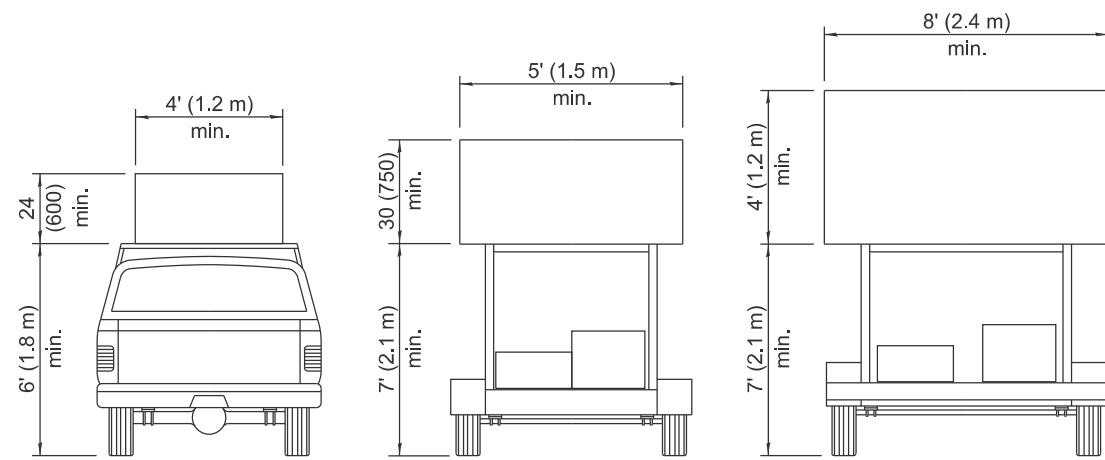
STANDARD 701901-11

Illinois Department of Transportation

APPROVED January 1, 2026
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2026
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

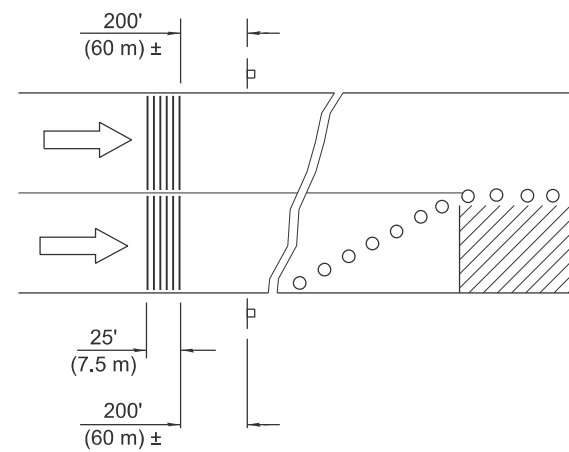


**TYPE A
ROOF
MOUNTED**

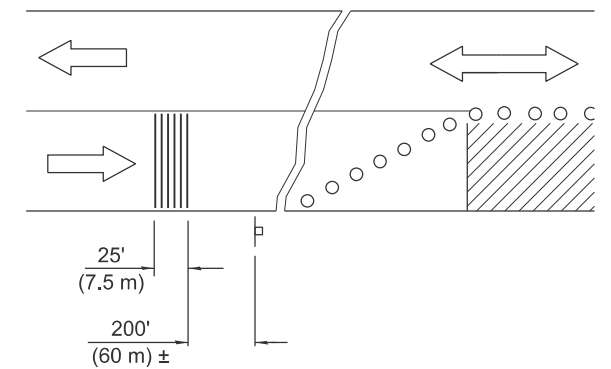
**TYPE B
ROOF OR TRAILER
MOUNTED**

**TYPE C
TRAILER
MOUNTED**

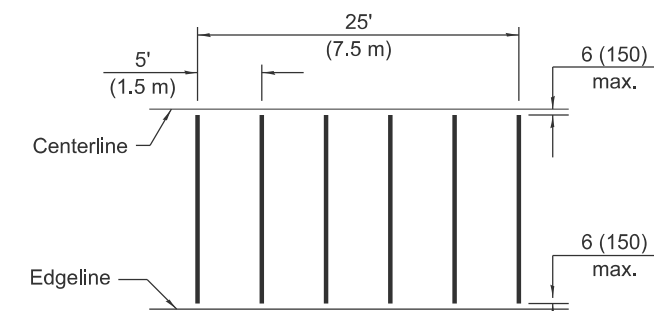
ARROW BOARDS



MULTI-LANE HIGHWAYS

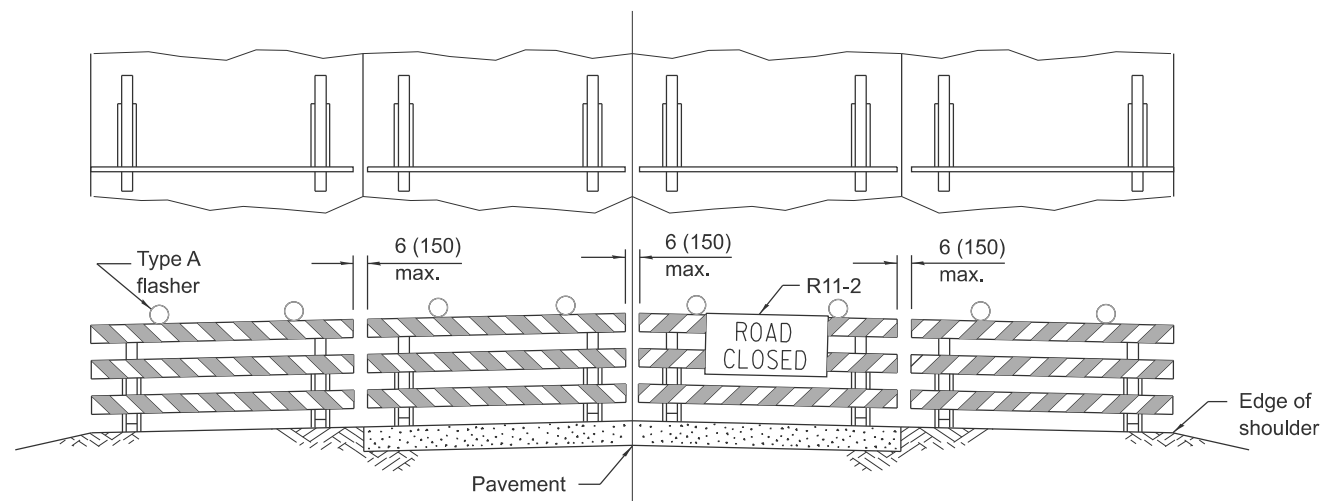


TWO-LANE HIGHWAYS

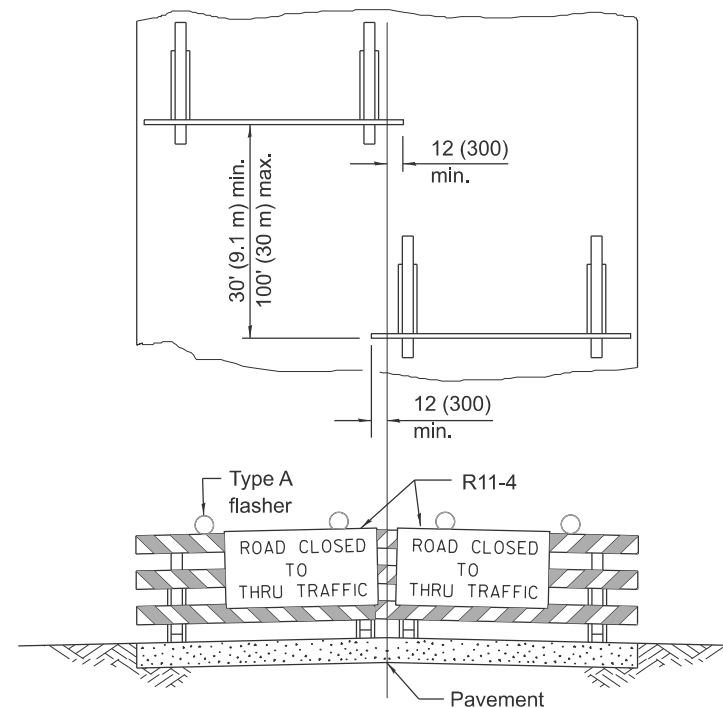


TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC
Reflectorized striping may be omitted on the back side of the barricades.



ROAD CLOSED TO THRU TRAFFIC
Reflectorized striping shall appear on both sides of the barricades.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**

If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.

Illinois Department of Transportation

APPROVED January 1, 2026
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2026
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

**TRAFFIC CONTROL
DEVICES**

(Sheet 3 of 3)

STANDARD 701901-11

Subsurface Investigation Report

For the

Proposed Water Main Installation Shoe Factory Road Hoffman Estates, Illinois

Prepared for

Mr. Andy LoBosco. P.E.
Village of Hoffman Estates
1900 Hassell Road
Hoffman Estates, IL 60169

Prepared by

Applied GeoScience, Inc.
2385 Hammond Dr., Suite 6
Schaumburg, Illinois 60173
847-303-0300

June 5, 2025



Applied GeoScience, Inc.

Geotechnical, Environmental & Materials Engineering

June 5, 2025

Mr. Andy LoBosco, PE
Senior Project Manager/Engineering Division
Village of Hoffman Estates
1900 Hassell Road
Hoffman Estates, Illinois 60169

Re: Subsurface Investigation Report
Proposed Water Main Installation
Shoe Factory Road - Hoffman Estates, Illinois
AGI Job No. 25-230

Dear Mr. LoBosco:

The subsurface exploration at the above-referenced site has been completed. The attached report represents the findings of the subsurface exploration and provides the geotechnical analysis for the project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the contents of this report, or if we may be of further service to you in any way, please do not hesitate to contact us.

Sincerely,

APPLIED GEOSCIENCE, INC.

Adam M. Moghamis, P.E.
Principal Engineer

enc.

INTRODUCTION

The purpose of this exploration was to evaluate the subsurface soil conditions at the site and to formulate conclusions and guideline recommendations pertaining to the influence of these conditions upon the proposed improvements.

The subject site is located north the intersection of Shoe Factory Road and Bridlewood Drive in Hoffman Estates, Illinois, as shown on Appendix A, Boring Location Diagram.

It is our understanding that the scope of work will consist of a new water main installation. It is anticipated that proposed grades will be approximately equivalent to existing grades.

Results of field and laboratory testing and final guideline recommendations based upon these data are included in this report. Logs of the soil borings performed at the site, a site location map, the results of the exploration, and general notes are included with this report. AGI personnel established the boring locations in the field based on the diagram provided by the client, without the use of sophisticated equipment, therefore all locations are considered to be approximate.

The purpose of this report is to describe the subsurface conditions encountered in the borings, to summarize the test data, and to provide guideline recommendations regarding design for the proposed roadway and parking lot improvements.

SUBSURFACE EXPLORATION PROCEDURES

Four (4) soil borings extended to a maximum depth of 15.0 feet below ground surface were performed at the above referenced site on May 29, 2025. The soil borings were performed using a truck-mounted rotary drilling rig, using hollow stem augers. Representative samples were obtained using the split-barrel sampling procedure according to ASTM Specification D-1586. In the split-barrel sampling procedure, a 2-inch O.D. split-barrel sampling spoon is driven into the ground with a 140-pound hammer, free falling a distance of 30 inches. The blows required to advance the sampling spoon by 12 inches after an initial 6-inch penetration are reported as the penetration resistance (N) values. These values are shown on the boring logs at their test depths. The penetration resistance value is an indication of the relative density of in-place granular soil and, to a lesser degree of accuracy, the consistency of cohesive soil. Cohesive soils were also tested for unconfined compressive strength using a calibrated penetrometer device. Upon completion of the drilling, the borings were filled with auger cuttings.

Samples were sealed and returned to AGI's laboratory for further examination, classification and testing. Field logs of each boring were prepared by our field engineer. These logs include visual classifications of the materials encountered during drilling as well as the engineer's interpretation of the subsurface conditions between samples. Final boring logs

included with this report represent an interpretation of the field logs and include modifications based on the laboratory testing of the samples.

SOIL CONDITIONS

The soil conditions encountered at the boring locations are shown on the enclosed boring logs, which can be found in Appendix B. The general conditions are described within the following strata.

1. Surficial Materials

At the surface, the borings encountered approximately 12.0 to 13.0 inches of topsoil, and 3.5 to 5.0 inches of asphalt over 7.0 to 12.0 inches of sand and gravel.

2. Fill Materials

The surficial materials were underlain by dark brown, dark gray, and black silty clay fill materials with sand, gravel, wood, crushed stone, asphalt millings, and traces to some topsoil. These soils were encountered in a stiff to hard condition and extend to depths of 2.5 to 6.0 feet below the ground surface.

3. Silty Clay

In general, the fill materials were underlain by brown and gray to gray silt silty clay with traces of sand and gravel. These soils were encountered in a very stiff to very hard condition and extended to the boring termination depth of 15.0 feet below the ground surface. In Boring B-2, dark brown and dark gray silty clay with traces of gravel were encountered in a soft condition at the boring depths of 5.0 to 10.0 feet below the ground surface.

4. Sandy Silt

In Boring B-2, the silty clay soils were underlain by sandy silt with trace amounts of clay. These soils were encountered in a medium dense condition and extend to depths of 6.0 to 10.0 feet below the ground surface.

The stratification lines shown on the boring logs represent the approximate boundary between soil types. The actual transition may be more gradual.

LABORATORY TESTING PROGRAM

The geotechnical testing program consisted of performing water content tests on selected soil samples according to ASTM D-2216, calibrated penetrometer tests on the cohesive samples recovered. These tests were performed upon representative portions of the samples obtained in the field. The results of all testing performed, along with a visual classification of the material based upon both a textural analysis and the Unified Soil Classification System, are indicated on the boring logs.

GROUNDWATER CONDITIONS

The borings were monitored during and immediately after the completion of drilling for the presence of groundwater. Groundwater was not encountered in the borings. All borings were backfilled immediately after drilling for safety reasons.

Based on our experience, the long-term elevation of the water table is typically located at the depth where the color of the soil changes from brown and gray to completely gray. This transition occurred at the depths of 7.5 to 13.5 feet below the ground surface, which indicates that the phreatic surface exists below an approximate depth of 10.5 feet below the ground surface.

Groundwater observations in the borings provide an approximate indication of the groundwater conditions at the time the borings were drilled. The levels noted at the time of boring may not represent the prevailing water table. Longer-term observations in cased holes or piezometers would be necessary for a more accurate evaluation of the groundwater conditions at this site.

Fluctuations in the groundwater level and the possible development of perched water table should be anticipated throughout the year depending on variations in climatological conditions and other factors not apparent at the time the borings were performed. The possibility of groundwater level fluctuation should be considered when developing the design and construction plans for the project.

ANALYSIS AND GUIDELINE RECOMMENDATIONS

The following guideline recommendations assume that the scope of the project as described in the beginning of this report does not change, and that no significant variations in soil conditions occur from those reported on our final boring logs. The boring logs and laboratory test results depict subsurface conditions only at the specified location on the site. With these limitations, the following geotechnical guideline recommendations are given for the proposed water main installation.

Installation of Water Main

The installation of the water main should be performed in accordance with the Illinois Department of Transportation (IDOT) Standard Specification for Road and Bridge Construction. The following recommendations are based on the soils encountered in the borings and the water main invert elevation of 5.0 feet below the ground surface. The boring logs and laboratory test results depict subsurface conditions only at the specified locations on the site. With these limitations, the following geotechnical recommendations are given for the proposed water main and associated structures. A qualified soil engineer should confirm the soil strength at the location of each proposed structure prior to the placement of any structure.

Bedding Recommendation for the Water Main

It is recommended that a well compacted, moist fine aggregate bedding material conforming to IDOT Specification 603.04 be placed for at least four (4) inches below the pipe, across the entire width of the trench, and for the length of the pipe. The fine aggregate should meet the approval of the engineer and should be compacted to his/her satisfaction by ramming or tamping with tools approved by the engineer. It is recommended that the fine aggregate bedding material be compacted to 90 percent of its maximum dry density as determined by ASTM specification D-1557. In order to create an adequate stress distribution zone beneath the water main, it is recommended that the bedding material be extended across the entire width of the trench.

Excavation Support

It is anticipated that the trench excavations will penetrate natural silty clay soils encountered in the borings and that a side bracing system will be used to provide temporary lateral support. For the design of any temporary retaining systems, it is recommended that a lateral active earth pressure of 40 psf per foot of depth be used above the water table. Below the water table, it is recommended that a lateral active earth pressure of 80 psf per foot of depth be employed. Allowances should also be made for any surcharge loads adjacent to the retaining structures. All excavations should be performed in accordance with the latest Occupational Safety and Health Administration requirements.

Backfill Requirements

As soon as the condition of the pipe permits, the entire width of the trench should be backfilled with moist fine aggregate, meeting the gradations specified in IDOT Specification 603.04 to a height of at least the top of the pipe. The fine aggregate should be placed longitudinally along the pipe. The elevation of the backfill material on each side of the pipe should be the same. Special care should be taken to completely fill the space under the pipe. It is recommended that the fine aggregate backfill material be placed in 8-inch layers, loose measurement, and compacted to the satisfaction of the engineer by ramming or tamping with tools approved by the engineer. The fine aggregate backfill material should be compacted to 90 percent of its maximum dry density as determined by ASTM Specification D-1557. The fine aggregate used for backfilling should meet the approval of the engineer.

The remainder of the trench and excavation should be backfilled to the natural line or finished surface as rapidly as the condition of the water main permits. The backfill material should consist of an approved granular material conforming to IDOT Specification 603.04. All backfill material should be deposited in the trench or excavation in such a manner as not to damage the water main. The filling of the trench should be carried on simultaneously on both sides of the pipe in such a manner that injurious side pressures do not occur. The backfill for trenches and excavation made in the subgrade of the proposed improvement, and

for all trenches outside of the subgrade where the inner edge of the trench is within 2 feet of the edge of the proposed pavement, curb, gutter, curb and gutter, stabilized shoulder or sidewalk, should be made with trench backfill material, unless the excavated material meets the requirements of the IDOT Specification 603.04.

Fill materials placed below any paved areas should be placed in lifts not exceeding 9 inches in loose thickness and compacted to a recommended minimum 95% ASTM Specification D-1557 density. The backfilling operation should be inspected by an Applied GeoScience, Inc. representative to assure proper placement of backfill in accordance with these recommendations. Backfill materials should be inorganic materials free of deleterious substances. The fill materials should be placed during weather conditions and at moisture contents that permit the recommended degree of compaction to be obtained.

CONSTRUCTION CONSIDERATIONS

Depending upon weather conditions during and prior to construction, some groundwater could be encountered in the anticipated construction excavations on the site. It is anticipated that any seepage into the construction excavation could be controlled with drainage ditches or by pumping from sump pits.

Soft, wet, and unstable subgrade soils may occur where shallow groundwater is present throughout the construction site. Heavy equipment traffic directly on these materials should be minimized or prevented.

All excavation should be performed in accordance with the latest Occupational Safety and Health Administration requirements.

New requirements of the Illinois Environmental Protection Agency mandate that all uncontaminated soil that is to be removed from the site, including soil mixed with other clean construction or demolition debris (CCDD), sent to either a CCDD or an uncontaminated soil fill operation must be certified as uncontaminated soil in accordance with Section 22.52(f)(2)(B) or Section 22.51a(d)(2)(B), respectively, of the Environmental Protection Act [415 ILCS 5]. Certifications for commercial/industrial properties must be made by a licensed professional engineer. Certifications for uncontaminated soil removed from a site that has not been used for commercial or industrial purposes may be made either by the site owner/operator or by a licensed professional engineer on the IEPA's forms. These forms, along with the analytical results, must be submitted to the fill operation prior to disposal of any soils excavated from the site. AGI's environmental professionals are qualified to perform testing and certifications in accordance with the IEPA's regulations.

Continuous observation by a geotechnical engineer or his representative should be maintained during site preparation and compaction of all fill and backfill material.

GENERAL COMMENTS

The analysis and recommendations presented in this report are based upon the data obtained from the soil borings performed at the indicated location and from any other information discussed in this report. This report does not reflect any variations that may occur across the site. The nature and extent of such variations may not become evident until construction. If variations appear evident, it will be necessary to reevaluate the recommendations of the report.

It is recommended that an Applied GeoScience, Inc. geotechnical engineer be given the opportunity to review the plans and specifications so that comments can be made regarding the interpretation and implementation of our geotechnical recommendations in the design and specifications. It is further recommended that the geotechnical engineer be retained for testing and observation during earthwork construction phases to help determine that the design requirements are fulfilled.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No other warranties, either expressed or implied, are intended or made. In the event that any changes in the nature, design or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report modified or verified in writing by the geotechnical engineer.

APPENDIX A

Boring Location Diagram

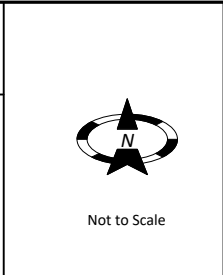
Approximate
Boring Locations



PROJECT NUMBER: 25-230
CLIENT NAME: VOHE
DATE: May 29, 2025

APPENDIX A:
Boring Location Diagram

SITE LOCATION:
**Shoe Factory Road
Hoffman Estates, Illinois**



Applied GeoScience, Inc.
2385 Hammond Drive, Suite 6
Schaumburg, Illinois 60173
(847) 303-0300

APPENDIX B

Boring Logs

CLIENT: Village of Hoffman Estates	PROJECT: Proposed Water Main Installation
------------------------------------	---

STATION AND OFFSET:	LOCATION: Shoe Factory Road
---------------------	-----------------------------

COUNTY: Cook County	GRAPHIC LOG		SAMPLES				TESTS				
CITY & STATE: Hoffman Estates, Illinois		DEPTH (FT.)	SPT-N BLOWS / FT.	NUMBER	TYPE	% RECOVERY	MOISTURE, %	DRY DENSITY PCF	Qu tsf Failure Type	VANE SHEAR PSF	Est. Coefficient of Permeability k, (cm/sec)
SURFACE ELEVATION Datum: CCD											

1.1 13" topsoil SILTY CLAY, trace sand & gravel, brown, very stiff to hard (CL) 3.5 SILTY CLAY, trace sand & gravel, brown-gray, hard (CL) 7.5 SILTY CLAY, trace sand & gravel, gray, very hard (CL) 15.0 End Of Boring	↓	5	10	15										
	↓	15	14	15	22	26	27	15	15	4.0	4.0	4.5	4.8	4.8
		1	2	3	4	5	6			67	18		3.5	
		SS	SS	SS	SS	SS	SS							

WATER LEVEL OBSERVATIONS	Applied GeoScience, Inc. 2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173 Tel: (847) 303-0300 Fax: (847) 303-0900	STARTED	5-29-25	FINISHED	5-29-25
WL ▽ Dry		DRILL CO.	AGI	DRILL RIG	45-C
WL ▼		DRILLER	JR	ASS'T DRILLER	JP
WL ▼ Cave-in @ 13'		ENG/GEOL.	AAM	APPROVED	AMM

CLIENT: Village of Hoffman Estates	PROJECT: Proposed Water Main Installation
------------------------------------	---

STATION AND OFFSET:	LOCATION: Shoe Factory Road
---------------------	-----------------------------

COUNTY: Cook County	GRAPHIC LOG	DEPTH (FT.)	SAMPLES				TESTS					
			SPT-N BLOWS / FT.	NUMBER	TYPE	% RECOVERY	MOISTURE, %	DRY DENSITY PCF	Qu tsf Failure Type	VANE SHEAR PSF	Est. Coefficient of Permeability k, (cm/sec)	
SURFACE ELEVATION Datum: CCD												
0.1 / 3.5" asphalt over 8" sand & gravel	↓											
1.1 / 12" topsoil	↓											
2.5 / FILL, silty clay, with sand & gravel, trace topsoil, dark brown, hard	↓		17	1	SS	89	13			4.5		
5.0 / FILL, silty clay, with sand & gravel, trace topsoil, dark brown, stiff	↓	5	10	2	SS	100	17			1.3		
10.0 / SILTY CLAY, trace gravel, dark brown-dark gray, soft (CL)	↓	5	5	3	SS	100	23			0.5		
	↓	10		4	SS	56	21			0.5		
13.5 / SILTY CLAY, trace sand & gravel, brown-gray, very stiff (CL)	↓	10	6	5	SS	89	18			2.0		
15.0 / SILTY CLAY, trace sand & gravel, gray, very hard (CL)	↓	15	18	6	SS	100	14			4.8		
End Of Boring												

WATER LEVEL OBSERVATIONS	Applied GeoScience, Inc. 2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173 Tel: (847) 303-0300 Fax: (847) 303-0900	STARTED 5-29-25	FINISHED 5-29-25
WL ▽ Dry		DRILL CO. AGI	DRILL RIG 45-C
WL ▼		DRILLER JR	ASS'T DRILLER JP
WL ▼ Cave-in @ 12'		ENG/GEOL. AAM	APPROVED AMM

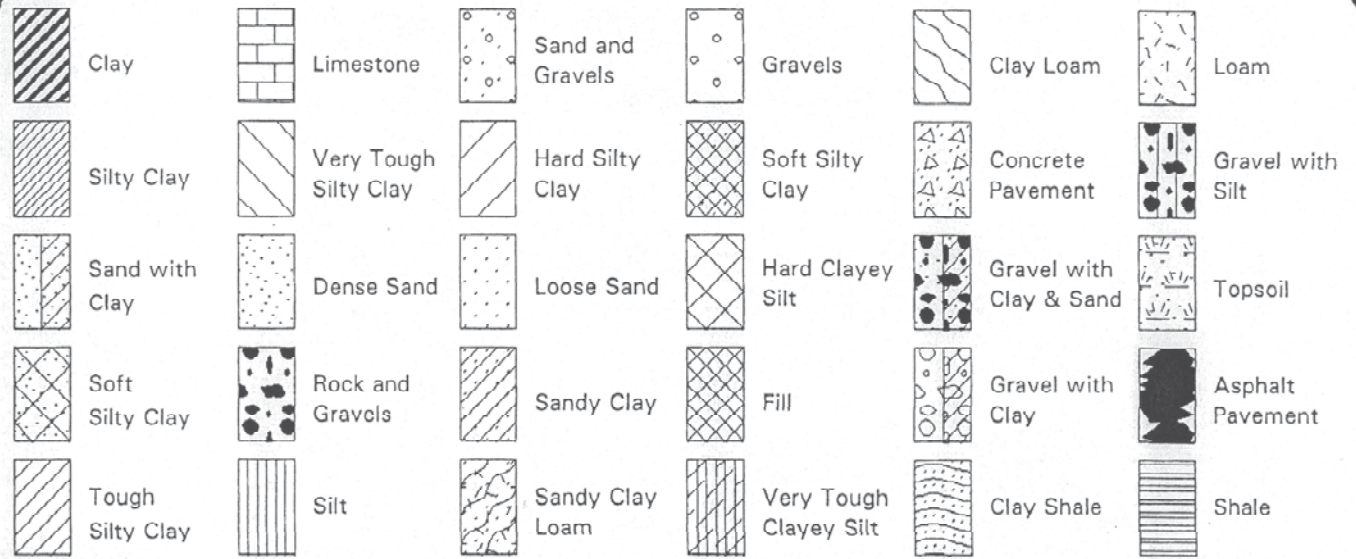
AGI Job No. 25-230		BORING LOG NO. B-3				Sheet 1 of 1						
CLIENT: Village of Hoffman Estates					PROJECT: Proposed Water Main Installation							
STATION AND OFFSET:					LOCATION: Shoe Factory Road							
COUNTY: Cook County		GRAPHIC LOG	SAMPLES			TESTS						
CITY & STATE: Hoffman Estates, Illinois			DEPTH (FT.)	SPT-N BLOWS / FT.	NUMBER	TYPE	% RECOVERY	MOISTURE, %	DRY DENSITY PCF	Qu tsf Failure Type	VANE SHEAR PSF	Est. Coefficient of Permeability k, (cm/sec)
SURFACE ELEVATION Datum: CCD												
1.0	5" asphalt over 7" sand & gravel											
3.5	FILL, silty clay, with sand, gravel, asphalt millings, crushed stone, dark gray with black, hard		12	1	SS	89	13		4.8			
6.0	SILTY CLAY, trace sand & gravel, brown, very hard (CL)		21	2	SS	89	17		4.8			
8.5	SANDY SILT, trace clay, brown, medium dense (SM)		16	3	SS	89	23					
10.0	SANDY SILT, trace clay, brown-gray, medium dense (SM)		18	4	SS	94	21					
15.0	SILTY CLAY, trace sand & gravel, gray, hard to very stiff (CL)		26	5	SS	100	18		4.2			
	End Of Boring		15	6	SS	100	14		2.3			
WATER LEVEL OBSERVATIONS		Applied GeoScience, Inc. 2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173 Tel: (847) 303-0300 Fax: (847) 303-0900				STARTED	5-29-25	FINISHED	5-29-25			
WL	▽ Dry					DRILL CO.	AGI	DRILL RIG	45-C			
WL	▼					DRILLER	JR	ASS'T DRILLER	JP			
WL	▼ Cave-in @ 13'					ENG/GEOL.	AAM	APPROVED	AMM			

CLIENT: Village of Hoffman Estates	PROJECT: Proposed Water Main Installation
------------------------------------	---

STATION AND OFFSET:	LOCATION: Shoe Factory Road
---------------------	-----------------------------

COUNTY: Cook County	GRAPHIC LOG	DEPTH (FT.)	SAMPLES				TESTS					
			SPT-N BLOWS / FT.	NUMBER	TYPE	% RECOVERY	MOISTURE, %	DRY DENSITY PCF	Qu tsf Failure Type	VANE SHEAR PSF	Est. Coefficient of Permeability k _v (cm/sec)	
SURFACE ELEVATION Datum: CCD												
1.0 12" sand & gravel mix	[Cross-hatch pattern]	1	13	1	SS	89	15			4.5		
FILL, clay topsoil, with sand, gravel & wood, black, hard	[Cross-hatch pattern]	3.5										
6.0 FILL, clay topsoil, with sand, gravel & wood, stiff	[Cross-hatch pattern]	5	10	2	SS	89	31			1.3		
8.0 SILTY CLAY, trace sand & gravel, brown, very stiff (CL)	[Diagonal lines /]	10	11	3	SS	100	18			3.5		
10.0 SILTY CLAY, trace sand & gravel, brown-gray, very stiff (CL)	[Diagonal lines /]	10	15	4	SS	100	15			3.8		
SILTY CLAY, trace sand & gravel, gray, very stiff (CL)	[Diagonal lines /]	15	15	5	SS	100	19			3.8		
15.0	[Diagonal lines /]	15	14	6	SS	100	17			2.3		
End Of Boring		15										

WATER LEVEL OBSERVATIONS	Applied GeoScience, Inc. 2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173 Tel: (847) 303-0300 Fax: (847) 303-0900	STARTED 5-29-25	FINISHED 5-29-25
WL ▽ Dry		DRILL CO. AGI	DRILL RIG 45-C
WL ▼		DRILLER JR	ASS'T DRILLER JP
WL ▼ Cave-in @ 12'		ENG/GEOL. AAM	APPROVED AMM



Strength, Qu, tsf "Cohesive Soil"

< 0.25	Very Soft
0.25 - 0.49	Soft
0.50 - 0.99	Medium Stiff
1.00 - 1.99	Stiff
2.00 - 3.99	Very Stiff
4.00 - 8.00	Hard
> 8.00	Very Hard

Failure Type

- S Shear B Bulge
- P Calibrated Penetrometer

Drilling & Sampling Symbols

- R : Auger Refusal
- SS : Split Spoon - 1 3/8 I.D., 2" O.D.
- PA : Power Auger
- HA : Hand Auger
- DB : Diamond Bit - NX, BX, AX
- ST : Shelby Tube
- WS : Wash Sample

Water Level Measurement Symbols

- WL : Water Level
- WD : While Drilling
- AD : After Drilling
- WS : While Sampling

Relative Proportions of Sand & Gravel

Descriptive Term (s) (of Components Also Present in Sample)	Percent of Dry Weight
Trace	< 15
With	15 - 29
Modifier	> 30

Particle - Size Limits

- Sand 2.00 - 0.075 mm
- Silt 0.075 - 0.002 mm
- Clay finer than 0.002 mm

IDOT Abbreviations

- C - Clay
- Si - Silt
- L - Loam
- SiC - SiltyClay
- SiCL - SiltyClayLoam
- SaC - SandyClay
- SaCL - SandyClayLoam
- SiL - SiltyLoam
- SaL - SandyLoam
- CL - ClayLoam
- G - Gravel
- Gr - Gravelly (Prefix)

**Descriptive Term
Of Components Also
Present in Sample**

	Percent Of Dry Weight
Trace	1 - 9
Little	10 - 19
Some	20 - 34
And	35 - 50



Power Auger



Split Spoon



As Drilled
Boring Location

N-Blows Per ft. "Granular Soil"

0 - 3	Very Loose
4 - 9	Loose
10 - 29	Medium Dense
30 - 49	Dense
50 - 80	Very Dense
80 +	Extremely Dense

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch OD split spoon.

RIMAC: Machine is used to performing unconfined compressive test on cohesive soil (Field or Lab Testing).

Descriptive Rock Classification

Rock Quality Designation

RQD %	Rock Quality
0.0 - 0.25	Very Poor
0.25 - 0.50	Poor
0.50 - 0.75	Fair
0.75 - 0.90	Good
0.90 - 1.00	Excellent

Classification of rock materials has estimated from disturbed samples.

Relative Proportions of Fines

Descriptive Term (s) (of Components Also Present in Sample)	Percent of Dry Weight
Trace	< 5
With	5 - 12
Modifier	> 12

Soil Plasticity %

- LL : Liquid Limit PL : Plastic Limits
- PI : Plasticity Index NP : Non Plastic
- LL - PL = PI

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
			CH	INORGANIC CLAYS OF HIGH PLASTICITY	
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

Note: Dual symbols are used to indicate borderline soil classifications





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: Shoe Factory Road Water Main Replacement Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Access road off Shoe Factory Road to I-90 and west of Brindlewood Drive

City: Hoffman Estates State: IL Zip Code: 60192

County: Cook Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.06175 Longitude: -88.2055
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Village of Hoffman Estates

Street Address: 1900 Hassell Road

PO Box: _____

City: Hoffman Estates State: IL

Zip Code: 60169 Phone: 847-882-9100

Contact: Eric Palm

Email, if available: eric.palm@hoffmanestates.org

Site Operator

Name: Village of Hoffman Estates

Street Address: 1900 Hassell Road

PO Box: _____

City: Hoffman Estates State: IL

Zip Code: 60169 Phone: 847-882-9100

Contact: Eric Palm

Email, if available: eric.palm@hoffmanestates.org

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil borings SB-1 through SB-4 were located at appropriate intervals within the project site. See the attached map of advanced soil borings

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

See the attached map of advanced soil borings and laboratory analytical report for this project

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Jake Rogers (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Baxter & Woodman. INC
Street Address: 8678 Ridgefield Road
City: Crystal Lake State: IL Zip Code: 60014
Phone: 815-420-5685

Jake Rogers
Printed Name:

Jake Rogers
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

9/15/25
Date:

