



www.troyil.us

116 East Market / Troy, Illinois 62294

**Request for Proposal
Market St Water Main – Phase 1
Water Main Replacement
City of Troy, IL**

BID RESPONSES MUST BE RECEIVED BY: 10:00am local time on Thursday February 29th, 2024.

The City of Troy seeks a qualified contractor for a water main replacement project. The Bid Packet may be obtained from our website at www.troyil.us (home page), or picked up at the Troy Municipal Building, 116 E. Market St, (Administration Office), Troy, IL. To bid the project, you must register as a plan-holder with the Assistant to the City Administrator Michele Colligan. Please contact Michele at 618-667-9924 ext.1 to register and/or for assistance in viewing, downloading, and working with this digital project information. All addenda will be posted on: www.troyil.us

Please submit any questions regarding this bid in writing to the City Engineer, Tom Cissell via email to: tom.cissell@oatesassociates.com.

MAILING INSTRUCTION: Print or type Bid Title and Due Date on the lower left hand corner of the envelope or package. Delivered **SEALED BIDS** must be received in the Administration Office prior to **10:00am on February 29th, 2024**. Bids will be opened by the Purchasing Manager at the location listed below.

RETURN BID TO:
City of Troy Public Works
Attn: Tom Cissell
116 E. Market St.
Troy, IL 62294

By signing this cover page, the bidder shall hereby declare understanding, agreement and certification of compliance to provide the items and/or services, at the prices quoted, in accordance with all requirements and specifications contained herein and the Terms and Conditions. In addition, the bidder shall further agree that upon receipt of an authorized purchase order from the City of Troy or when a Contract Resolution is signed and issued by an authorized official of the City of Troy, a binding contract shall exist between the bidder and the City of Troy.

SIGNATURE REQUIRED / RETURN WITH BID

LEGAL NAME OF ENTITY/INDIVIDUAL FILED WITH IRS FOR THIS TAX ID NO.	DOING BUSINESS AS (DBA) NAME
MAILING ADDRESS	
CITY, STATE, ZIP CODE	
CONTACT PERSON	EMAIL ADDRESS
PHONE NUMBER	FAX NUMBER
TAXPAYER ID NUMBER (TIN)	TAXPAYER ID (TIN) TYPE (CHECK ONE) ____ FEIN ____ SSN
VENDOR TAX FILING TYPE WITH IRS (CHECK ONE) ____ Individual/Sole Proprietor ____ C Corporation ____ S Corporation ____ Partnership ____ LLC, Class ____ Other	
AUTHORIZED SIGNATURE	DATE
PRINTED NAME	TITLE

The City of Troy reserves the right to accept or refuse any or all bids.

Administration: 618 667 6741 Fax: 618 667 4009 | Public Works Dept.: 618 667 9924 | Building & Zoning Dept.: 618 667 8734

CITY OF TROY, ILLINOIS
GENERAL TERMS AND CONDITIONS OF BIDDING

1. **Opening Location:** *Sealed proposals will be received at City of Troy Municipal Building, 116 E. Market. St., Troy, IL 62294, until the proposal closing date and time indicated above.*
2. **Opening of advertised proposals:** *The vendor and public are invited, but not required, to attend the opening of proposals. No decision related to an award of a contract or purchase order will be made at the opening.*
3. **Submittal of Proposals:** *Proposals must be submitted in a sealed envelope identified with the bid title and date of closing on the outside. Facsimile, telephone and email proposals will NOT be considered. Proposals will not be accepted after the due date and time.*
4. *All proposals shall be submitted FOB Destination Troy, Illinois 62294, freight prepaid (unless otherwise stated).*
5. **Prices Bid:** *Provide a lump sum amount for the total work required on the plans. The quantities indicated represent the designer's estimation of the MAJOR WORK ITEMS involved and most small/ incidental work items are not included for brevity. Quantity takeoffs are provided for information only. This is a lump sum bid and will be paid as such. Costs for an itemized list of pay items is requested in order to establish a schedule of values as a basis for payment. In case of discrepancy, the sum of the itemized amounts will be used to determine the total lump sum bid.*
6. **Taxes:** *Do NOT include Federal Excise Tax or Sales and Use Tax in the bid prices, as the City is exempt from them by law. Tax Exemption Certificate will be furnished if required.*
7. **Estimated Quantities:** *The estimated quantities indicated in this Request for Proposal represent anticipated requirements only. The right is reserved to exceed or diminish these estimates.*
8. **Bid Forms, Variances, and Alternates:** *Bids must be submitted on attached City bid forms, although additional information may be attached. Bidders must indicate any variances from the City requested specifications and/or terms and conditions, on the Affidavit of Compliance. Otherwise, bidders must fully comply with the City requested specifications and terms and conditions. Alternate Bids may or may not be considered at the sole discretion of the City of Troy.*
9. **"Or Equal" Interpretation:** *When a particular manufacturer's name or brand is specified along with the words "or equal", Quotations will be considered on other brands or the product of other manufacturers. On all such Quotations the bidder shall indicate clearly the product (brand and model number) on which he is bidding, and shall supply a sample or sufficient data in detail to enable an intelligent comparison to be made with the particular brand or manufacturer specified. Catalog cuts and technical descriptive data shall be attached to the original copy of the quote where applicable. Failure to submit the above information may be sufficient grounds for the rejection of quote.*
10. **Withdrawal of Bids:** *Bids or proposals may be revised, modified, or withdrawn by the bidder at any time prior to opening. Any such revision, modification, or withdrawal shall be in writing. After the bids are opened, they shall be irrevocable for the period sixty (60) days. Bids or proposals may not be withdrawn or revised after opening unless specified in the RFP.*
11. **Clarification and Addenda:** *Each bidder shall examine all Bid documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries or suggestions, concerning interpretation, clarification, or additional information pertaining to the Request for Proposal shall be made through the Administration Office in writing or through email. The Administration Office shall not be responsible for oral interpretations given by any City employee, representative, or others. The issuance of written addenda is the official method whereby interpretation, clarification, or additional information can be given. It shall be the responsibility of each bidder, prior to submitting their Bid, to contact the Administration Office at phone number 618-667-9924 or jkeeven@troyil.us, to determine if addenda were issued and to make such addenda a part of their Bid. Any and all addendums will be posted on the City's web site (www.troyil.us) under Current Bid Opportunities.*
12. **Contract Forms:** *Any agreement, contract, or purchase order resulting from the acceptance of a Bid shall be on forms either supplied by or approved by the City.*

13. **Reserved Rights:** *The City reserves the right to make such investigations as it deems necessary to make the determination of the bidder's responsiveness and responsibility. Such information may include, but shall not be limited to: current financial statement, verification of availability of equipment and personnel, and past performance records.*
14. **The Right to Audit:** *The bidder agrees to furnish supporting detail as may be required by the City to support charges or invoices, to make available for audit purposes all records covering charges pertinent to the purchase, and to make appropriate adjustments in the event discrepancies are found.*
15. **Applicable Law:** *All applicable laws and regulations of the State of Illinois and the City will apply to any resulting agreement, contract, or purchase order. Further, any and all disputes arising out of and/or related in any way to this RFB process or any contract executed after bid acceptance. and/or the work at issue which is the subject of this RPB, shall be filed exclusively in the Circuit Court for the Third Judicial Circuit, Madison County, Illinois.*
16. **Right to Protest:** *Protestors shall seek resolution of their complaints initially with the City Administration Office. Any protest must state the basis upon which the solicitation or award is contested and shall be submitted within ten (10) calendar days after such aggrieved person knew or could have reasonably been expected to know of the facts giving rise thereto.*
17. **Quality Guaranty:** *If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the Bidder shall refund to the City any money which has been paid for same. The bidder will be responsible for any and all costs and attorney fees in the event the bidder defaults and court action is required.*
18. **Quality Terms:** *The City reserves the right to reject any or all materials if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.*
19. **No-Bid:** *In the event you are unable to quote on this requirement, please return the "No-bid Response Form", on or before the bid closing date. Please indicate the reason(s) you are unable to participate in this solicitation.*
20. **Bid Tabulation:** *Bidders may request a copy of the bid tabulation of the Request for Bid through the City's Administration Office.*
21. **Expenses:** *All expenses for making Proposals to the City of Troy are to be borne by the bidder.*
22. **Collusion:** *By offering a submission to this Request for Bid, the bidder certifies the bidder has not divulged, discussed, or compared the Bid with other bidders and has not colluded with any other bidder or parties to this RFB whatsoever. Also, the bidder certifies, and in the case of a joint Bid, each party thereto certifies as to their own organization, that in connection with this RFB:*
 - a. *Any prices and/or cost data submitted have been arrived at independently, without consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices and/or cost data, with any other bidder or with any competitor.*
 - b. *Any prices and/or cost data for this Bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder prior to the scheduled opening directly or indirectly to any other bidder or to any competitor.*
 - c. *No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a Bid for the purpose of restricting competition.*
 - d. *The only person or persons interested in this Bid, principal or principals are named therein and that no person other than therein mentioned has any interest in this Bid or in the contract to be entered into.*

- e. *No person or agency has been employed or retained to solicit or secure the contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee exempting bona fide employees or established commercial agencies maintained by the Purchaser for the purpose of doing business.*

23. Liability and Indemnity:

- a. *In no event shall the City be liable to the Contractor for special, indirect, or consequential damages, except those caused by the City's gross negligence or willful or wanton misconduct arising out of or in any way connected with The RFB process or any contract executed after bid acceptance. The maximum liability of the City shall be limited to the amount of money to be paid or received by the City under any contract executed after bid acceptance.*
- b. *The Contractor shall defend, indemnify and save harmless the City, its elected or appointed officials, agents and employees from and against any and all liability, suits, damages, costs (including attorney fees), losses, outlays and expenses from claims in any manner caused by, or allegedly caused by, or arising out of, or connected with the RFP process or any contract executed after bid acceptance, including, but not limited to, claims for personal injuries, death, property damage, or for damages from the award of this contract to Contractor.*
- c. *The Contractor shall indemnify and hold the City harmless from all wages or overtime compensation due any employees in rendering services pursuant to any contract executed after bid acceptance, including payment of reasonable attorneys' fees and costs in the defense of any claim made under the Fair Labor Standards Act, the Illinois Prevailing Wage Law or any other federal or state law.*

24. Bid Information is Public: *All documents submitted with any bid or proposal shall become public documents and subject to Illinois State Statute 5 ILCS140/, which is otherwise known as the "Illinois Sunshine Law". By submitting any document to the City of Troy in connection with a bid or proposal, the submitting party recognizes this and waives any claim against the City of Troy and any of its officers and employees relating to the release of any document or information submitted. Each submitting party shall hold the City of Troy and its officers and employees harmless from any claims arising from the release of any document or information made available to the City of Troy arising from any bid opportunity.*

25. Authorized Product Representation: *The successful bidder(s) by virtue of submitting the name and specifications of a manufacturer's product will be required to furnish the named manufacturer's product. By virtue of submission of the stated documents, it will be presumed by the City that the bidder(s) is legally authorized to submit and the successful bidder(s) will be legally bound to perform according to the documents.*

26. Regulations: *It shall be the responsibility of each bidder to assure compliance with OSHA, EPA, Federal, State of Illinois, and City rules, regulations, or other requirements, as each may apply.*

27. Awards:

- a. *Unless otherwise stated in the Request for Proposal, cash discounts for prompt payment of invoices will not be considered in the evaluation of prices. However, such discounts are encouraged to motivate prompt payment.*
- b. *As the best interest of the City may require, the right is reserved to make awards by item, group of items, all or none, or a combination thereof; to reject any and all Bids or waive any minor irregularity or technicality in Bids received.*
- c. *Awards will be made to the Bidder whose Bid (1) meets the specifications and all other requirements of the Request for Proposal and (2) is the lowest and best Bid, considering price, delivery, responsibility of the bidder, and all other relevant factors.*

28. Termination of Award: *Any failure of the bidder to satisfy the requirements of the City shall be reason for termination of the award. Any Bid may be rejected in whole or in part for good cause when in the best interest of the City.*

29. Budgetary Constraints: *The City reserves the right to reduce or increase the quantity, retract any item from the Bid, or upon notification, terminate entire agreement without any obligations or penalty based upon availability of funds.*

30. **Insurance:** The city shall require all contractors performing public works projects or performing work on city property in connection with a contract or purchase order, to maintain insurance of the types and with limits of liability not less than those set out below at the contractor's expense during the term (including the warranty period) of the purchase order from insurers reasonably acceptable to the city covering items, risks and operations required to fulfill the contract or purchase order.
- a. Such policies shall name the City of Troy as an additional named insured with limits of liability.
 - i. **Workers' compensation:** Insurance that the contractor is obliged by law to carry that covers all of contractor's employees performing work under this purchase order ("worker compensation")
 - ii. **Employer's liability insurance:** Employer's liability insurance with a minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate. Such insurance shall protect the city as an alternate employer against claims asserted against the contractor by the contractor's workers as "borrowed servants," statutory employees or maritime employees ("employer' liability")
 - iii. **Commercial or comprehensive general liability insurance:** Commercial or comprehensive general liability insurance, including contractual liability coverage, with a minimum limit of \$2,000,000 per occurrence/\$5,000,000 aggregate.
 - iv. **Automobile liability insurance:** Automobile liability insurance with a combined bodily injury and property damage minimum limit of \$1,000,000 per occurrence/\$2,000,000 aggregate, for all owned and leased vehicles.
 - b. Builders Risk Insurance for contracts involving unoccupied structures. The Contractor shall secure All Risk Builder's Risk Insurance. Unless specifically authorized by the City, the amount of such insurance shall not be less than the total contract price. The policy shall name as insured the Contractor and the City of Troy.
 - c. Subcontracts: in case any or all of this work is sublet, the contractor shall require the subcontractor to procure and maintain all insurance required in subparagraphs (a) and (b) hereof and in like amounts. The contractor shall require any and all subcontractors with whom it enters a contract to perform work on this project to protect the City of Troy through insurance against applicable hazards or risks and shall, upon request from the City, provide evidence of such insurance.
31. **Requirement for Bid Security:** Bid Security shall be required for all formal Bids, requiring City Council approval, as set forth in the City of Troy's Purchasing Policy, for the purchase of Capital Improvement items, and City projects entailing engineering or construction. Bid security shall be a bond provided by a surety company authorized to do business in the State of Illinois, or the equivalent in cash, cashier's check or otherwise supplied in a form satisfactory to the City of Troy in an amount equal to 10% of the total amount of the bid. Failure to provide security, as set forth shall result in the City's rejection of bid.
32. **Withdrawal of Bids:** After the bids are opened, they shall be irrevocable for the period of up to sixty (60) days from bid opening date. If a bidder is permitted to withdraw its bid before the opening of bids, no action shall be taken against the bidder or the bid security.
33. **Correction or Withdrawal of Bids:** Correction or withdrawal of inadvertently erroneous bids after bid opening, or cancellations of awards or contracts based on such bid mistakes shall not be permitted and shall mandate forfeiture of Bid Performance Security to the City of Troy.
34. **Return of Bid Security:** The City shall return the security bond to bidders who do not receive the bid. The City shall hold the security bid bond of the awarded bidder until Capital Improvement Project is delivered to the City of Troy or a 100% percent performance bond is issued to the City for awarded contractual services or project construction.
35. **Contract Performance and Bond Payment:** When a bid is awarded for contractual services or construction, a bond shall be delivered to the City of Troy and shall become binding on the parties upon the execution of the contract; such bond shall be a performance labor and materials bond satisfactory to the City of Troy, executed by a surety company authorized to do business in the State of Illinois or otherwise secured in a manner satisfactory to the City of Troy, in the amount equal to one hundred percent (100%) of the price specified in the contract. The requirement may be modified upon recommendation of the City Administration, City Council and approved by the City Attorney.

36. **Contract Term:** *The term of this contract shall be for the duration and completion of this project.*
37. **Completion Time:** *The Contractor will be required to commence work under this contract within **Ten (10)** calendar days after the date of receipt by him of the Notice to proceed, to prosecute said work diligently and to complete the work by **June 28, 2024**. The Contractor is required to provide a sufficient work force and construction management so that no time extension will be granted for delay of contract award, weather conditions, utility conflicts, excavation encountering rock, changing excavation quantities, or Contractor scheduling of equipment or construction progress. The Contractor shall have a superintendent or a responsible foreman on the project at all times when construction is in progress. Any claim for extension of time shall be made in accordance with the City of Troy General Conditions and Technical Specifications.*
38. *The project is not considered completed until final acceptance by the City of Troy.*

City of Troy, IL

Bid Form

SUBMITTED BY: _____

(Company Name)

The pricing information is hereby provided in accordance with the Terms and Conditions of this ***Request for Bid.***

Bid Item	Description	Estimated Quantity	Lump Sum Cost
G1	TRENCH BACKFILL	475 CU YD	
G2	SEEDING, CLASS 1A	340 SQ FT	
G3	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	312 SQ FT	
G4	CONCRETE CURB REMOVAL	117 FOOT	
G5	SIDEWALK REMOVAL	1,094 SQ FT	
G6	CLASS B PATCHES, 8 INCH	414 SQ YD	
G7	CLASS C PATCHES, 8 INCH	32 SQ YD	
G8	WATER MAIN 6" (C900 PVC)	80 FOOT	
G9	WATER MAIN 12" (C900 PVC)	550 FOOT	
G10	DIRECTIONAL BORE 12" WATER MAIN	110 FOOT	
G11	WATER SERVICE LINE (DIRECTIONAL BORE)	2 EACH	
G12	WATER SERVICE LINE (TRENCHED)	7 EACH	
G13	ABANDON EXISTING 6" WATER MAIN, FILL WITH CLSM	4 CU YD	
G14	WATER MAIN CAP	4 EACH	
G15	DUCTILE IRON WATER MAIN TEE 12" X 12" X 6"	4 EACH	
G16	6" X 6" TAPPING SLEEVE	1 EACH	
G17	GATE VALVE AND BOX 6"	2 EACH	
G18	GATE VALVE AND BOX 12"	3 EACH	
G19	DUCTILE IRON WATER MAIN FITTINGS (BENDS)	4 EACH	
G20	FIRE HYDRANTS TO BE REMOVED	1 EACH	
G21	FIRE HYDRANT ASSEMBLY	2 EACH	
G22	CONC CURB, TY B	65 FOOT	
G23	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT (WHITE)	60 FOOT	
G24	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT (WHITE)	24 FOOT	
G25	TEMPORARY PAINT PAVEMENT MARKING - CURB (YELLOW)	65 FOOT	
G26	SIGN PANEL TYPE 1	1 EACH	
G27	TELESCOPING STEEL SIGN SUPPORT	13 FOOT	
G28	POTHOLING	4 EACH	
G29	TRAFFIC CONTROL AND PROTECTION	1 L SUM	
G30	CONSTRUCTION LAYOUT	1 L SUM	
G31	AS-BUILT SURVEY	1 L SUM	
G32	BRACE EX UTILITY POLE	1 ALLOWANCE	
G33	SHEETING, BRACING AND SHORING	1 ALLOWANCE	
G34	MOBILIZATION	1 L SUM	
		Base Bid (LS)	

RETURN WITH BID

Onsite Visit Made by: NOT REQUIRED	date	
Upon notice to proceed, contractor will complete the project in (calendar days)		
Bid Security enclosed: (10% of total bid)		

The City of Troy reserves the right to accept or refuse any or all bids.

RETURN WITH BID

VENDOR REFERENCES:

The proposal must include the following information:

1. List at least three (3) references for whom you have performed similar products/services for other public entities, local governments or private companies.

Company Name: _____ Address: _____

_____ Contact _____

Person: _____

Telephone #: () _____

Company Name: _____ Address: _____

_____ Contact _____

Person: _____

Telephone #: () _____

Company Name: _____ Address: _____

_____ Contact _____

Person: _____

Telephone #: () _____

2. State how long you have been operating under your present company name?

3. Have you ever defaulted on a contract? _____

If so, where and why? _____

RETURN WITH BID

Affidavit of Compliance
Market St Water Main – Phase 1
Water Main Replacement

To be submitted with Vendor's proposal.

_____ We DO NOT take exception to the RFP documents/requirements.

_____ We TAKE exception to the RFP Documents/Requirements as follows:

I have carefully examined the Request for Proposal and agree to abide by all submitted pricing, delivery, terms and conditions of this Quotation unless otherwise stipulated herein.

Company Name: _____

By: _____
(Authorized person's signature) (Print name and title of signer)

Company Address: _____

Telephone Number: _____ Federal Tax ID No.: _____

ADDENDA

Bidder acknowledges receipt of the following addendum:

Addendum No. _____

Addendum No. _____

Addendum No. _____

RETURN WITH BID

City of Troy
“No-Bid Response Form”
Market St Water Main – Phase 1
Water Main Replacement

COMPLETE AND RETURN THIS FORM ONLY IF YOU DO NOT WANT TO SUBMIT A PROPOSAL RESPONSE.

If you do not wish to respond to this proposal request, but would like to remain on the City of Troy vendor list, please fill out this form and return to the Administration Office by email.

RETURN TO: Tom Cissell, City Engineer
Email: tom.cissell@oatesassociates.com

We the undersigned have declined to bid on your proposal for the following reasons:

- ☐ Insufficient time to respond to invitation for bid.
- ☐ We do not offer this product/s or equivalent.
- ☐ Unable to meet specifications.
- ☐ Unable to meet insurance requirements.
- ☐ Our schedule would not allow us to perform.
- ☐ Specifications are to “tight”, i.e. geared towards one brand or manufacturer.
- ☐ Specifications unclear.
- ☐ Other (please specify below).

Comments: _____

VENDOR INFORMATION:

Company Name: _____
Signature and Title: _____
Phone #: _____
Email: _____

RETURN WITH BID

SPECIAL PROVISIONS

MARKET STREET WATER MAIN – PHASE 1 WATER MAIN REPLACEMENT TROY, ILLINOIS

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SPECIAL PROVISIONS

MARKET STREET WATER MAIN – PHASE 1 WATER MAIN REPLACEMENT TROY, ILLINOIS

The following Special Provisions 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 the invitation for bids, and the "Standard Specifications for Water and Sewer Construction in Illinois", 8th Edition, which apply to and govern the construction of the City of Troy, Market Street Water Main – Phase 1, Water Main Replacement, Troy, Illinois, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

DESCRIPTION OF WORK

The proposed water main replacement project is generally located on Market Street (IL-162) from just west of Main Street to east of Hickory Street in Troy, Illinois. A proposed 12" water main will replace approximately 657 feet (0.12 miles) of the existing 6" water main located along Market Street (IL-162). Proposed 6" water main will replace approximately 80 feet of the existing 4" water main located on S Kimberlin Steet and S Hickory Street.

The work on this project consists of removals, trench excavation with shoring, trench backfill, PCC pavement patching with HMA surface course, curb, sidewalk, temporary pavement markings, directional boring, water main installation, fire hydrants, water service line replacement, and all incidental and collateral work necessary to complete the work in the above-described Section according to the plans, specifications, local laws, and special provisions.

COORDINATION OF CONTRACT DOCUMENTS

If a conflict exists between the "Standard Specifications for Road and Bridge Construction" and the "Standard Specifications for Water and Sewer Construction in Illinois", the more stringent shall govern.

SHOP DRAWINGS

The Contractor shall submit shop drawings of the following items according to Articles 1042.03(b) and 105.04 of the "Standard Specifications for Road and Bridge Construction":

- Shoring Plan
- Water Main Pipe and Fittings
- Water Valves
- Fire Hydrant
- Tapping Sleeve and Valve

Submit shop drawings for review and approval to:

Mr. Tom Cissell, City Engineer
City of Troy
116 East Market Street
Troy, Illinois 62294

A maximum of two reviews by the Engineer will be provided for each shop drawing submittal. If any additional reviews are required, the Contractor shall pay the Engineer for all costs incurred at an hourly rate of \$200. Payment for additional reviews shall be made directly to the City of Troy.

IDOT UTILITY PERMIT

The work within IDOT right-of-way shall be completed in accordance with the IDOT Utility Permit. IDOT is not a member of JULIE. If the Contractor is near any overhead lighting, intersection lighting or traffic signals, they must have a qualified electrical contractor locate state-owned facilities. The Contractor shall send a notification to DOT.D8UtilityPermits@illinois.gov at least three (3) weekdays in advance of starting work. A field meeting may be required prior to starting the work. Work shall be completed within 180 days of the date of issuance, unless a time extension is given, otherwise the permit becomes null and void. Failure to do so may result in the suspension of future permits.

CONSTRUCTION LAYOUT

This work shall consist of construction staking according to Article 105.09 of the "Standard Specifications for Road and Bridge Construction", except as modified herein.

The Local Agency will provide adequate reference points to the centerline of survey, control points, and benchmarks as shown on the plans and listed herein.

The Contractor shall provide labor, equipment and material to set all additional stakes for this project, which are needed to establish offset stakes, reference points, and all other horizontal or vertical controls, including supplementary benchmarks, necessary to secure a correct layout for the work.

The Contractor shall be responsible for having the finished work conform to the lines, grades, elevations and dimensions called for on the plans. Inspection or checking of the Contractor's layout by the Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimensions, grades and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and benchmarks and shall have them reset at his/her expense when any are disturbed.

Responsibility of the Local Agency

- Control points referenced to the survey centerline will be provided at intervals not exceeding 1000 ft.
- Benchmarks and control points will be established along the project outside of the construction limits not exceeding 1000 ft. intervals horizontally and 20 ft. vertically.
- The Local Agency will locate and reference the centerline of all roads and streets. The centerline of entrances and short street intersection returns will not be located or referenced. Locating the centerline of survey will consist of establishing the centerline of surveys at PC's, PT's and POT's at intervals not exceeding 50 ft.
- The Local Agency will accept responsibility for the accuracy of the initial control points and stakes as provided herein. The Contractor shall assume full responsibility for all dimensions and measurements taken or derived by the Contractor from control points or stakes set by the Local Agency. It is not the responsibility of the Local Agency, except as provided herein, to check the correctness of the Contractor's stakes.
- The Local Agency will set all stakes that are the responsibility of the Local Agency one time only. If any additional staking or re-staking is required, the Contractor shall pay the Local Agency for all costs incurred at an hourly rate of \$150. Payment for additional staking shall be made directly to the City.

Responsibility of the Contractor

- The Contractor shall establish from the given survey points and benchmarks, all additional control points necessary to construct the individual project elements. It is the Contractor's responsibility to tie in centerline control points in order to preserve them during construction operations.
- The Contractor shall stake the right of way and limit construction activities to stay within these limits.
- The Contractor shall provide all additional staking required to assure completion of the work in substantial conformance with the plans.
- The Contractor shall be responsible for re-establishing all stakes removed or disturbed by construction operations.
- All work shall be according to normally accepted surveying practices. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the Local Agency at the completion of the project. All notes shall be neat, orderly, and in accepted form.

This layout work will not be measured separately for payment. The cost incurred by the Contractor in complying with this requirement shall be considered as included in the lump sum bid for the project.

SAFETY AND HEALTH

The Contractor shall be responsible for enforcing all O.S.H.A. Safety and Health Standards pertaining to the construction industry as established by the United States Department of Labor, Occupational Safety and Health Administration. Such standards include, but are not limited to, 29 CFR 1910 and 1926.

SAFETY AND PROTECTION

- A. CONTRACTOR shall be responsible for initiating, maintaining, and supervising all safety and precautions and programs in connection with the Work. CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:
1. All employees on the work and other persons and organizations who may be affected thereby;
 2. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
 3. Other property at the site adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.
- B. CONTRACTOR shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons and property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of underground facilities and utility owners when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to in paragraph 2. or 3. caused, directly or indirectly, in whole or in part, by CONTRACTOR, any Subcontractor, Supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts either of them may be liable, shall be remedied by CONTRACTOR (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or anyone employed by either of them or anyone for acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of CONTRACTOR). CONTRACTOR's duties and responsibilities for the safety and protection of the Work shall continue until all the Work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR that the Work is acceptable.
- C. CONTRACTOR shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be CONTRACTOR's superintendent, unless otherwise designated in writing by CONTRACTOR to OWNER.
- D. In EMERGENCIES affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, CONTRACTOR, without special instructions or authorization from ENGINEER or OWNER, is obligated to act to prevent threatened damage, injury or loss. CONTRACTOR shall give ENGINEER prompt, written notice if CONTRACTOR believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If ENGINEER determines that a change in the Contract Documents is required because of the action taken in response to an emergency, a Work Directive Change or Change Order will be issued to document the consequences of the changes or variations.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

An independent IEPA National Pollution Discharge Elimination System (NPDES) storm water permit is not required for this project; however, work shall conform to the City of Troy's existing General Storm Water Permit for Small Municipal Separate Storm Sewer Systems (MS4). Erosion control items shall be constructed according to the Standard Specifications for Road and Bridge Construction and the Illinois Urban Manual.

CONSTRUCTION CONTRACTS

The successful bidder, as a condition of this contract, must submit evidence that he or she has conducted a pre-job conference with his Subcontractors and their employees, or the employees' duly recognized representatives and union officials, to determine employee jurisdiction, job assignment and work schedules. This requirement is to promote industrial harmony and to eliminate work stoppages and jurisdictional disputes. The pre-job conference shall be conducted at least 14 calendar days prior to the commencement of any construction.

MEASUREMENT AND PAYMENT

Delete all Articles regarding "Method of Measurement" and "Basis of Payment" in the "Standard Specifications for Road and Bridge Construction" and any inserted or referenced IDOT special provisions.

This project is a Lump Sum Project. Partial Payment for completed work will be made based on percent completion from an approved schedule of values as shown on the attached example at the end of this Manual.

GENERAL PREVAILING WAGE RATES

According to "An Act regulating wages of laborers, mechanics and other workmen employed in any public works by the State, County, City or any public body or any political subdivision, or by anyone under contract for public works," approved November 8, 1961, the Department of Labor has ascertained the general prevailing rate of per diem wages for the attached labor classifications.

The general prevailing wage rates for Labor classifications other than those specified in the attachment, and the general prevailing rate for legal holiday and overtime work are on file in the office of the Department of Labor at Springfield, Illinois, and the main office of the Madison County Highway Department. Not less than these prevailing wage rates shall be paid for work performed under this contract.

Should a prevailing rate as listed herein violate a Federal Law, order, or ruling, the rate conforming to the Federal Law, order or ruling shall govern. No change in compensation will be made to the Contractor as a result of his paying rates other than those specified herein.

The aforementioned Act of November 8, 1961, provides that any Contractor or Subcontractor who shall neglect to keep, or cause to be kept, an accurate record of names, occupations and actual wages paid to each laborer, workman and mechanic employed by him in connection with the contract, or who shall refuse to allow access to the record at any reasonable hour to any representative of the City, County, or to the Director of Labor and his deputies and agents, shall be guilty of misdemeanor and shall be punished by a fine not exceeding \$500.00 or by imprisonment not exceeding 6 months, or by both fine and imprisonment, in the discretion of the court.

No extra compensation will be allowed to the Contractor for any delays caused by any hearing on any objection to the prevailing wage rates hereinafter specified, as provided in the aforementioned Act of November 8, 1961, or by appeal to the Circuit or Superior Court or to the Supreme Court of any decision of the Department of Labor or the County, resulting from the hearings, nor for any delay caused by compliance with the other provisions of the Act.

Prospective bidders should familiarize themselves with all of the provisions of the Act and, in addition, should make an investigation of the existing labor conditions, and any negotiated labor agreements, which may exist or are contemplated at this time. Nothing in the Act shall be construed to prohibit the payment of more than the prevailing wage scale shown above. The bidder should take all of these facts into consideration in the preparation of his proposal.

SEQUENCE OF CONSTRUCTION OPERATIONS

The Contractor shall conduct work within the approved Sequence of Construction Operations at all times. The work shall be done in a manner that will minimize the inconvenience to local traffic. The Contractor shall make every effort to maintain water service usage throughout the duration of the project. In the event that a connection will be out of service, with the City's pre-approval, the longest period of no service shall be eight (8) hours.

The Contractor shall conduct their operations to ensure local access to all properties throughout the project limits according to Article 107.09 and Section 701 and 703 of the "Standard Specifications for Road and Bridge Construction". If required, Type I, Type II or vertical barricades shall be used to channel traffic to the adjoining side streets or private entrances. The number required will be determined by the Engineer during construction.

The Contractor will not be permitted to close Illinois Route 162 (Market Street) to through traffic. The Contractor shall shift lanes of Illinois Route 162 (Market Street) per the Traffic Control Plan prior to excavation. The attached IDOT Traffic Control Authorization Request Form shall be completed by the Contractor and sent to the Engineer at least 25 days in advance of the lane shift for IL-162 for working room to complete the removal and replacement of the water main.

The Contractor will be permitted to close S Kimberlin Street and S Hickory Street entirely south of Market Street. All road closures must be approved in advance by the City of Troy Department of Public Works. The Contractor shall notify the City of Troy Fire and Police Departments at least 48 hours prior to enacting any road closures.

SUGGESTED SEQUENCE

During construction, the Contractor will be required to maintain access to all properties affected by this work. AGGREGATE FOR TEMPORARY ACCESS according to Section 402 of the "Standard Specifications for Road and Bridge Construction" will be used for this purpose.

The Contractor will not be allowed to begin subsequent construction operations until the preceding work is substantially complete. The construction sequence shall be compressed as much as possible to minimize the inconvenience to local traffic.

Unless authorized by the Engineer, the Contractor shall complete the construction in the following suggested sequence:

1. Pothole all water, gas, electric, fiber optic, and other utilities and service lines that cross the proposed water main.
2. Submit IDOT Traffic Control Authorization Request Form at least 25 days in advance of the lane shift for IL-162 for working room to complete the replacement of the water main.
3. Install appropriate traffic control signage.
4. Install sheeting, bracing, and shoring as needed to protect IDOT traveled way pavement from disturbance.
5. Expose the new water main hot tap location east of Hickory Street for planning and to confirm plan alignment and constructability. Notify City if a conflict is apparent and allow City 24 hours to reply with a solution.
6. Install a new 6" tapping sleeve and valve on the existing main. Leave valve closed and test seal.
7. Trench/open cut new water main, fittings, and valves in the parking lane along the south side of Market Street between the hot tap location and Main Street. Trench backfill.
 - a. Install new 6" water main and cap below S Hickory Street to stub out for a new water main to the south to be constructed by others. Leave valve closed.
 - b. Install a new fire hydrant assembly mid-block between Hickory Street and Kimberlin Street.
 - c. Install new 6" water main and cap below S Kimberlin Street to stub out for a new water main to the south to be constructed by others. Leave valve closed.
8. Excavate bore pits for directional boring 12" water main under Main Street. Trench backfill bore pits.
9. Trench/open cut new water main, fittings, valves, and cap in the parking lane along the south side of Market Street west of Main Street to the western terminus.
 - a. Install a new fire hydrant assembly.
10. Install sampling point west of Main Street.
11. Pressure test and chlorinate the new water main.
12. Coordinate with City for new 6" water main on S Kimberlin Street to be completed by others before existing water main can be capped, filled with CLSM, and abandoned.
13. Open tapping valve and only valves not noted to remain closed on the plans to pressurize new pipe.

14. Cap, abandon, and fill the existing water main with CLSM, as shown on the plans, between the hot tap location east of Hickory Street to the water valve east of Main Street.
15. Trench/directional bore new water service lines and replace water meters. Hot tap water service connections to new water main. Trench backfill.
16. Patch pavement, paint temporary pavement markings, and complete restoration.

To minimize inconvenience to commercial businesses on Market Street, CA 6 trench backfill shall be placed within the roadway parking lane, driveway entrances, and sidewalks as construction of the pipe is completed and accepted to maintain access. Seeding operations shall be completed as soon as possible to minimize erosion potential.

The Contractor may submit an alternate sequence of operations and traffic control plan that would expedite construction and still maintain traffic control. Any and all changes to these plans must be submitted in writing and approved in advance by the Engineer and IDOT. No additional compensation will be allowed if alternate plans are approved.

TRAFFIC CONTROL PLAN

Traffic control shall be according to the applicable Sections of the "Standard Specifications for Road and Bridge Construction", the applicable guidelines contained in the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", these special provisions, and all special details and Highway Standards contained herein and on the plans.

At the preconstruction meeting, the Contractor shall furnish the name of the individual in his/her direct employ who is responsible for the installation and maintenance of the traffic control for this project. If the actual installation and maintenance are to be accomplished by the Subcontractor, consent shall be requested of the Engineer at the time of the preconstruction meeting according to Article 108.01 of the "Standard Specifications for Road and Bridge Construction". This shall not relieve the Contractor of the foregoing requirement for a responsible individual in his direct employ. The City of Troy will provide the Contractor the name of its representative who will be responsible for the observation of the Traffic Control Plan.

The Contractor shall furnish, erect, maintain and remove all warning signs, flags, cones, drums, barricades, tubular markers, and lights according to Article 107.14 and Sections 701 and 703 of the "Standard Specifications for Road and Bridge Construction", the latest edition of the "Manual of Uniform Traffic Control Devices for Construction and Maintenance Operations", the Special Provisions, and/or as directed by the Engineer.

Articles 107.09 and 107.14 and Sections 701 and 703 of the "Standard Specifications for Road and Bridge Construction" and the following Highway Standards relating to traffic control apply to this contract:

701006 701801 701901

Illinois Route 162 (Market Street) shall be kept open to traffic at all times. The attached IDOT Traffic Control Authorization Request Form (BSPE 725) shall be completed by the Contractor and sent to the Engineer at least 25 days in advance of the lane shift for IL-162.

In addition, the following special provision(s) will also govern traffic control for this project:

SEQUENCE OF CONSTRUCTION OPERATIONS
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
CONTRACTOR ACCESS

PUBLIC NOTICE

Each Wednesday, the Contractor shall furnish a schedule for the next week's work and shall post signs at least 72 hours in advance of work on each street requiring a lane closure.

Handbill notices approved by the Engineer shall be provided to the City of Troy Director of Public Works for distribution at least 36 hours prior to commencing work on the water service impacting the property. The notices shall inform property owners of the work to be conducted, request the property owner relinquish using their water services during the required period of installation, and request the resident's forbearance of the inconvenience. The Contractor shall be responsible for notifying property owners when the work is complete. The Contractor shall also provide the following:

- A. A local telephone number of the Contractor they can call to discuss the project or any potential problems.
- B. Personal contact with any home or business, which cannot be reconnected within the time stated in the written notice.

All complaints should be directed to the Contractor. Residents may contact the City of Troy if their concerns are not resolved satisfactorily by the Contractor.

TRENCH BACKFILL

This work shall consist of furnishing aggregate for backfilling all trenches made in the subgrade of the proposed improvement, and all trenches where the inner edge of the trench is within two (2) feet of the proposed edge of pavement, curb, gutter, curb and gutter, stabilized shoulder, or sidewalk according to Section 208 of the "Standard Specifications for Road and Bridge Construction", except as modified herein:

Fine aggregate will be required for trench backfill within 2 ft. of all gas mains and gas service lines that are exposed during trenching operations.

Material for trench backfill and bedding for pipe shall be coarse aggregate gradation CA 6.

Trench backfill material shall be compacted according to Method 1, as specified in Article 550.07(a) of the "Standard Specifications for Road and Bridge Construction".

This work also includes the disposal of the surplus excavated material which is replaced by trench backfill. Such disposal shall be made according to Article 202.03.

SEEDING, CLASS 1A

This work shall consist of preparing the seed bed, and furnishing, transporting and placing the seed, fertilizer and mulch required to restore all disturbed earth surfaces according to Sections 250 and 251 of the "Standard Specifications for Road and Bridge Construction".

The Contractor shall guarantee a minimum of 90 percent uniform growth over the entire seeded area(s). Areas sustaining less than 90 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost.

TIE BARS & REINFORCEMENT BARS

This work shall consist of furnishing and placing tie bars and reinforcement bars in concrete pavement according to Sections 420 of the "Standard Specifications for Road and Bridge Construction", except as modified herein:

All tie bars and reinforcement bars used in Portland cement concrete pavement shall be epoxy coated.

EXPANSION JOINTS

This work shall consist of constructing expansion joints in concrete sidewalk according to Articles 424.07 of the "Standard Specifications for Road and Bridge Construction" except as modified herein:

Expansion joints required under Article 424.07(a) shall consist of preformed flexible foam expansion joint filler according to Article 1051.09 of the "Standard Specifications for Road and Bridge Construction" and shall have a pre-scored removable strip to provide a uniform 1/2 in. reservoir/channel for the required sealant.

Expansion joints required under Article 424.07(b) shall be preformed fiber joint filler according to Article 1051.04 of the "Standard Specifications for Road and Bridge Construction" and shall have a perforated tear off wood or plastic strip to provide a uniform 3/4 in. reservoir/channel for the required sealant.

Expansion joint filler and backer rod materials shall be a non-impregnated type that will not bond with the sealant.

Expansion joints shall be sealed with self-leveling (pour grade), or nonsag (gun) grade urethane sealant. The color of the sealant shall be limestone, unless otherwise approved by the Engineer.

PAVEMENT REMOVAL

This work shall consist of the complete removal of existing pavement, driveway pavement, curb, gutter, and sidewalk according to Section 440 of the "Standard Specifications for Road and Bridge Construction" except as modified herein.

Oil & chip roadways shall be treated as HMA pavement with respect to the removal of portions of existing pavement. Pavement removal shall be limited to the trench or bore pit width according to Section 550.04 of the "Standard Specifications for Road and Bridge Construction" and the plan details which extends pavement removal and replacement to one foot beyond the trench width.

This work shall include saw cutting and the removal of oil and chip roadways for utility trenches and bore pits. No additional compensation will be allowed for pavement removal outside of the limits described above.

CLASS B PATCHES

This work shall consist of the removal of the existing pavement, the necessary excavation and the replacement with Class B patches of the type and thickness specified at the designated locations, according to Section 442 of the "Standard Specifications for Road and Bridge Construction".

The existing pavement thickness is estimated to be 6 inches of Portland cement concrete with 2 inches of HMA surface course. The existing pavement thickness shall be field verified. The existing pavement shall be replaced with a full-depth patch to match the adjacent pavement.

Dowel bars and tie bars of the diameter specified on the plans will be required, but will not be measured separately for payment. Mandatory saw cuts will also not be measured separately for payment. A minimum 12 in. wide ledge of undisturbed material shall be maintained along the sides of all pavement patches where trenching is required.

Class B patches shall be limited to the trench or bore pit width according to Section 550.04 of the "Standard Specifications for Road and Bridge Construction" and the plan details which extends pavement replacement to one foot beyond the trench width. No additional compensation will be allowed for pavement replacement outside of these limits.

This work shall include sawing, removal and disposal of existing materials; furnishing and installing contraction joints, dowel bars, tie bars, and joint sealing.

CLASS C PATCHES

This work shall consist of the removal of the existing pavement, the necessary excavation and the replacement with Class C patches of the type and thickness specified at the designated locations, according to Section 442 of the "Standard Specifications for Road and Bridge Construction".

The existing pavement thickness is estimated to be 3 inches of oil and chip. The existing pavement thickness shall be field verified. The existing pavement shall be replaced with a full-depth patch consisting of 6 inches of Portland cement concrete with 2 inches of HMA surface course.

Oil and chip roadways shall be treated as HMA pavement with respect to the removal of portions of existing pavement. Saw cuts will not be measured separately for payment. A minimum 12 in. wide ledge of undisturbed material shall be maintained along the sides of all pavement patches where trenching is required.

Class C patches shall be limited to the trench width according to Section 550.04 of the "Standard Specifications for Road and Bridge Construction" and the plan details which extends pavement removal and replacement to one foot beyond the trench width. No additional compensation will be allowed for pavement replacement outside of these limits.

This work shall include sawing, removal and disposal of existing materials; furnishing and installing contraction joints, and joint sealing.

PAINT CURB

This work shall consist of furnishing and applying paint pavement marking on curbs that are removed and replaced as part of the construction according to Section 780 of the "Standard Specifications for Road and Bridge Construction".

The top and face of curbs shall be painted yellow.

WATER MAIN, SIZE SPECIFIED

This work shall consist of the construction of the new water main according to the "Standard Specifications for Water & Sewer Main Construction in Illinois" and Section 561 of the "Standard Specifications for Road and Bridge Construction" except as modified herein.

This work shall include all material and labor necessary to install the chlorination point (corporation stop) in accordance with Section 41-2.15D and sampling point at the location indicated on the drawings.

See the "Horizontal Directional Drilling (HDD) with Restrained Joint PVC" Special Provision for water main pipe requirements within directional bore limits.

CONSTRUCTION AND MAINTENANCE SIGN SUPPORTS

This work shall be done according to Section 1106 of the "Standard Specifications for Road and Bridge Construction" and Highway Standard 701901 except as modified herein.

All construction signs mounted on permanent support for use in temporary traffic control having an area of 10 square feet or more shall be mounted on two 4 in. x 4 in. or two 4 in. x 6 in. wood posts.

Type A metal posts (two for each sign) conforming to Article 1006.29 of the "Standard Specifications for Road and Bridge Construction" may be used in lieu of wood posts. Type A metal posts used for these signs may be unfinished.

CONTRACTOR ACCESS

At road closure locations, where Type III barricades are installed in a manner that will not allow Contractor access to the project without relocation of one or more of the barricades, the arrangement of the barricades at the beginning of each work day may be relocated, when approved by the Engineer, in the manner shown on Highway Standard 701901. At the end of each work day, the barricades shall be moved and the road shall be closed to traffic.

TELESCOPING STEEL SIGN SUPPORT

This item shall consist of furnishing and installing telescoping steel sign supports according to Sections 728, 1006, and 1093 of the "Standard Specification for Road and Bridge Construction", except as modified herein.

Telescoping steel sign supports and sign brackets shall be coated as specified below. The color of the top coating shall be black. The coating shall be applied only after the telescoping steel sign support has been fabricated. The final product shall not contain cracks in the coating, ripples in the curved areas, not any damage due to fabrications and or shipping.

- a. Telescoping steel sign support shall be galvanized according to Articles 1093.01 and 1093.02 of the "Standard Specifications for Road and Bridge Construction". The galvanizing method shall provide surfaces suitable for painting.
- b. Prepare all galvanized surfaces to be painted in accordance with ASTM D 6386 and the manufacturer of the coating system's specifications. Provide a clean and suitable galvanized surface that maximizes coating system adhesion.
- c. Measure the thickness of the zinc coating after completion of surface preparation using a magnetic thickness gage to ensure sufficient galvanizing remains on the substrate to meet the requirements listed in AASHTO M 111. Correct any deficient areas to meet the requirements listed in the Standard Specifications prior to painting.
- d. All galvanized exterior surfaces visually exposed are to be coated with a urethane or triglycidly isocyanurate (TGIC) polyester powder coating to a minimum dry film thickness (DFT) of 2.0 mils. Prior to application, the surfaces to be powder coated shall be mechanically etched by brush blasting and the zinc coated substrate preheated to 230 °C (450 °F) for a minimum of one hour in a gas fired convection oven. The coating shall be electrostatically applied and cured by elevating the zinc-coated substrate temperature to a minimum of 180 °C (350 °F) in a gas-fired convection oven.

e. Manufacturer shall certify:

Impact Resistance – With the finish surface at room temperature, subject it to a 160 inch-pound direct force by use of a Gardner variable impact tester, Model 1G-1120. Evaluate the test per ASTM D-2794.

Adhesion – Using a sharp blade, scribe a series of eight parallel cuts through the finish of the base material. Scribe another series of eight parallel cuts at a right angle to and crossing the former cuts to form 1/8 inch squares. Press a strip of pressure sensitive adhesive tape (Scotch Brand No 600) over the squares. After two minutes, remove the tape. Results must be level 4 or better as described in ASTM-3359-B.

Salt spray resistance shall be according to ASTM B-117.

Humidity Resistance shall be according to ASTM D-2247.

Weatherability – Power painted products shall meet the minimum weatherability standards as set forth in ASTM 336.

- f. Prior to painting, the Contractor shall provide the Engineer product data sheets including Material Safety Data Sheets on preparation material, prime materials and finish materials. Product data sheets shall include manufacturer recommendations for surface preparation and paint application. The contractor shall also furnish manufacturer's certification attesting that the materials supplied conform to the requirements of these specifications.
- g. Prior to shipment, telescoping steel sign supports shall be protected so that shipping does not cause damage to the painted surface. The Engineer will reject items that exhibit paint damage upon delivery. After delivery, the Contractor shall take care not to damage the painted surface. The Contractor shall replace, at their expense, any painted items that exhibit paint damage as directed by the Engineer.

SHEETING, BRACING AND SHORING

This work shall consists of furnishing, placing, maintaining, and removing such sheeting, bracing, shoring, etc. as necessary or required to support the sides of the excavation to protect workmen in the trench and to prevent any earth movement which might in any way injure or delay the work, change the required width of the excavation, or endanger adjacent pavement, utilities, sewers, buildings, or other structures above or below the ground surface. Adequate and suitable sheeting, shoring, bracing or other approved means shall be in accordance with all applicable Federal, State, County, Municipal, and OSHA rules and regulations.

The sheeted trench width, as measured between the faces of the sheeting in contact with the earth trench wall, shall not exceed the trench width shown on the drawings. Walers and other bracing shall be so designed and installed as to present no obstructions to proper placement of the pipe, bedding, haunching or initial backfill, nor shall they interfere with the satisfactory laying and jointing of the pipe.

Sheeting, bracing, and shoring shall be withdrawn and removed as the trench backfilling is being done, except where and to such extent as the Engineer shall order that such sheeting, bracing, and shoring be left in place, or where the City will permit the same to be left in place at the Contractor's request. In any case, the Contractor shall cut off any such sheeting at least two feet below the surface and shall remove the cutoff material from the excavation.

All sheeting, bracing, and shoring shall be removed in a manner as not to endanger the completed work or other structures, utilities, pavement, sewers, or property, whether public or private.

The Contractor shall submit a shoring plan to the Engineer for review a minimum of two (2) weeks prior to commencing any portion of the trench excavation. The Engineer's review of the shoring plan shall not relieve the Contractor of their responsibility or public liability.

HORIZONTAL DIRECTIONAL DRILLING (HDD) WITH RESTRAINED JOINT PVC

This work shall consist of furnishing all labor, materials, tools and equipment as necessary to construct a water main or water service line crossing by the horizontal directional drilling method. The finished work includes proper installation testing, restoration of underground utilities and environmental protection and restoration.

The equipment operator(s) shall be trained to operate the specific HDD equipment with at least 3 years experience in directional drilling obtained within the last five years. All pipe and appurtenances of similar type and material shall be furnished by a single manufacturer.

Nominal outside diameters and wall thickness of pipe must conform to the requirements of ANSI/AWWA C900. Pipe must be DR-18 (minimum).

All restrained couplings shall be furnished in DR-14. Pipe shall be joined using nonmetallic restrained type couplings. Pipe and couplings must be designed as an integral system and must be provided by a single manufacturer for maximum reliability and interchangeability. Pipe and couplings must be joined using high-strength flexible plastic splines inserted into mating precision-machined grooves, which align when the pipe is fully inserted providing a full 360° restraint with evenly distributed loading. No external pipe-to-pipe restraining devices that clamp onto or otherwise damage the pipe surface as a result of point-loading must be permitted. Couplings shall be designed as a minimum for use at the rated pressures of the pipe with which they are utilized and must incorporate twin elastomeric sealing gaskets meeting the requirements of ASTM F477. Coupling edges must be beveled to reduce drag force when pipe is installed by HDD and fusible PVC is not used. Assembly of joints must be in accordance with the manufacturer's instructions. Assembled joints must meet the leakage test requirements of ASTM D3139.

Restrained Joint Couplings for C900/RJ pipe must be supplied by the manufacturer.

- a. Spline: High strength Polyamide Thermoplastic.
- b. Gaskets: Vulcanized SBR in accordance with ANSI/AWWA C111/A21.11.
- c. Tee Bolts: Must meet requirements as described in ANSI/AWWA C111/A21.11.

Only experienced personnel must be used to install pipe. Allowable axial loads must be supplied by the manufacturer. The Contractor shall utilize appropriate instrumentation to ensure that these loads are never exceeded.

It shall be the Contractor's responsibility to perform the directional drilling work in strict conformance with the requirements of the governing authority in whose right-of-way or easement the work is being performed. Any special requirements of the governing authority, such as insurance, and flagmen, must be strictly followed during the performance of work. The special requirements must be provided and performed by the Contractor at no additional cost to the City.

Required directional drilling pits must be excavated and maintained to minimum dimension. Said excavations must be adequately barricaded, sheeted, braced and dewatered, as required, in accordance with the applicable portions of these special provisions and drawings. Excavation adjacent to the road pavement must be performed in a manner to adequately support these facilities. Pre-excavate pipe entry and receiving areas to provide a gradual entry of the pipe without stress to the pipe or joints and to allow free movement into the bore hole at an acceptable depth. Carefully guide pipe in such a manner as to avoid deformation of, or damage to, the pipe. Do not use chains, cables or hooks inserted into the pipe ends. Handle the pipe in such a manner that the pipe is not damaged by dragging it over sharp and cutting objects. Slings or pipe rollers must be used for pipe assembly during final product pull back.

The Guidance system must use an electronic tracking system, a non-walkover wireline system, for a continuous and accurate determination of the location of the drill head during the drilling operation. The guidance system must be capable of tracking in any soil condition, including hard rock. It must enable the driller to guide the drill head by providing immediate information on the tool face, azimuth (horizontal direction), and inclination (vertical direction). The system must be capable to be remotely steered and permit electronic monitoring of tunnel depth and location. The guidance system must be accurate and calibrated to the manufacturer's specifications of the vertical depth. The system must be accurate to within 2% vertically and one foot horizontally.

Every effort must be made to maintain pipe installations at the proper alignment and at a depth, at the center line of the pipe/ pilot bore, of 48 inches (minimum) for potable water lines. Where deeper installations are shown on the plans or required by the City or IDOT, the Contractor must make such adjustments without additional cost to the City.

The drilling mud must be bentonite slurry or approved equal and must be contained and disposed of in accordance with state/federal regulations and permit conditions. The Contractor must install erosion and sedimentation control measures including, but not limited to, filter socks to prevent drilling mud from inadvertently spilling out of the entrance/exit pit and pressure relief vents.

The pipe must be installed in a manner that does not cause upheaval, settlement, cracking, movement or distortion of surface features. If unexpected subsurface conditions are encountered during the bore, the procedure must be stopped. The installation must not continue until approval has been given by the City.

Drill the pilot bore on the bore path with no deviations greater than 2% of the depth and one foot horizontally over the length of the bore. If the pilot does deviate from the bore path by more than 2% of depth or one foot horizontally over the length of the bore, the pilot must be pulled back and re-drilled from a location along the bore path before the deviation. The bore must not create high points not shown on the drawings.

The carrier pipe must be pulled back through using the wet insertion construction technique. When back reaming, the bore hole must not exceed 1.5 times the outside diameter of the pipe or pipe joint/coupling for pipe up to 12 inches in diameter. The annular space between the pipe and the bore hole must be filled with an approved material (Bentonite or equal) to support and stabilize the pipe. If pressure grouting is used, caution should be exercised to ensure that excess grout pressure does not distort or collapse the pipe. In the case of a pull-back where the bore will be abandoned, the HDD Contractor must inject an approved grout into the annular space. This action will be in conjunction with the removal of the bore tool to insure against collapse of the cover material.

Pipe must be installed in a manner that will ensure that external loads will not subsequently cause a decrease of more than five percent in the vertical cross-section dimension.

TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

This work shall consist of furnishing, installing, maintaining, providing manpower and removing all traffic control devices for traffic control and protection as shown on Highway Standards 701001, 701006, 701301, 701501, 701801, 701901, and BLR17-4, according to Section 701 of the "Standard Specifications for Road and Bridge Construction", as directed by the Engineer and as specified herein.

Prior to beginning work on the project, the Contractor shall furnish and install Type III barricades and advance warning signs as detailed in the applicable Highway Standards. Barricade placement and sign spacing may be adjusted by the Engineer to suit field conditions.

Throughout the construction period, all material piles, equipment, open excavations or other obstructions or hazards to motorists or pedestrians shall be enclosed by fences or protected by barricades and proper lighting. Excavations adjacent to the edge of pavement shall be protected with extended leg barricades with appropriate lights.

Traffic control and protection according to Highway Standard 701801 will be required for sidewalk closures on Market Street.

Traffic control and protection required for the successful completion of this project shall include all work as specified herein and all other provisions required by law for the protection and safety of property and individuals in a construction zone.

STATUS OF UTILITIES TO BE LOCATED AND PROTECTED

NAME AND ADDRESS OF UTILITY	TYPE	LOCATION
<u>City of Troy</u> 116 East Market Street Troy, IL 62294 Contact Person: Rob Hancock Phone: 618-667-4629	Water	The existing water main on the south side of Market St (IL-162) will be capped, abandoned, and filled with CLSM. The new 12" water main will be constructed north of the existing water main, in the south parking lane.
	Sewers	No conflicts are anticipated.
<u>Ameren Illinois</u> 2600 North Center Street Maryville, IL 62062 Contact Person: Jerome McDonald Phone: 618-346-1275	Gas	There are existing gas mains crossing Market Street at STA 588+98 (Kimberlin Street) and STA 590+82 (Hickory Street). These gas mains shall be located and protected. No relocation or adjustments are anticipated.
	Electric	The existing aerial electric lines along the south side of Market St (IL-162) may require shielding from equipment and poles braced during construction. There is an underground electric line crossing the proposed water main at STA 587+68 that potentially crosses the proposed water main. This electric line shall be located and protected. No relocation or adjustments are anticipated.
<u>AT&T</u> 203 Goethe Street Collinsville, IL 62234 Contact Person: Darren Simmons Phone: 618-346-6499	Fiber	There is an existing manhole in the sidewalk at the southwest corner of the intersection of Market Street and Kimberlin Street. There is an existing ductbank that extends across Market Street to the east side of N Kimberlin Street. This duct bank shall be located and protected. No relocation or adjustments are anticipated.

The above represents the best information of the responsible Local Agency and is only included for the convenience of the Contractor. The applicable provisions of Section 102 and Articles 105.07, and 107.20 of the "Standard Specifications for Road and Bridge Construction" shall apply.

Minor adjustments of water service lines may be necessary to accommodate construction. All such adjustments will be made during construction.

Underground facilities, structures and utilities have been plotted from available surveys and records. Their locations must be considered to be approximate only. It is possible there may be others, the existence of which is not presently known or shown. Such information represents only the opinion of the Local Agency and their Engineer as to the location of such utilities and is only included for the convenience of the bidder. The Local Agency and their Engineer assume no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of underground utility facilities.

AS-BUILT / GIS SURVEY

According to the Troy, IL Code of Ordinance Section 153.164 Requirements for "As-Built" Records is stated as follows "As-built information will be provided to the "Engineer of Record" who will have a professional land surveyor prepare record drawings based on

as-built information. Within 30 days after the completion and acceptance of all improvements, the Engineer for the developer shall deliver record drawings (“as-built” plans) in the form of two black line prints and one electronic copy for each of the improvements constructed. As-builts will contain the information on the design drawings, plus the following additional information:

- A. As-builts are to document changes between the design and construction. All information that is incorrect due to changes during construction will be corrected. Incorrect or no longer relevant information will be erased or struck through.
- B. Water and sewer record drawings shall include the location and depth of all service laterals; the size, location and flow line elevations of all mains; the top and flow line elevations of all manholes, valves, hydrants; and any other pertinent information.
 - 1. Any water and sewer facilities constructed in a horizontal or vertical location materially different than the design location will have their design location struck through and will be redrafted at the constructed location.
 - 2. Any dimensions or callouts (e.g., type, location, size, material, etc.) to water and sewer facilities will be corrected as necessary.
- C. GIS Requirements. The City has implemented geographical information systems (GIS) technologies to store, manage, and maintain spatially-related data. As a result, during installation actual point coordinate locations (X,Y, and Z) shall be captured. All developers shall submit digital as-built plans according to the following requirements:
 - 1. Submittal requirements. As-built digital plan drawings shall be submitted showing the location and details of the actual constructed improvements. The as-built shall be submitted with a sealed cover letter from a licensed Illinois Land Surveyor indicated that the location and elevation of the following items shown in the as-built have been verified under the direct supervision of the surveyor with an error of closure of not more than one to 5,000 feet.
 - 2. Water system items. Inventory water system fittings and valves (elevation at top of fitting/valve), fire hydrants (elevation to the bottom of the cap on the steamer fitting). And top of pipes every 200 feet along straight runs. Indicate pipe and valve sizes/materials.
 - 3. Datums. Submissions shall use the following geographic projection and datum:
 - a. *Projection*. State Plane Illinois West
 - b. *Horizontal datum*. NAD83 (North American Datum of 1983)
 - c. *Vertical datum*. NAVD88 (North American Vertical Datum of 1988)
 - d. *Datum conversion*. NADCON
 - e. *Unit of measure*. U.S. survey foot

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						Overtime										
Trade Title	Rg	Type	C	Base	Foreman	M-F	Sa	Su	Hol	H/W	Pension	Vac	Trng	Other Ins	Add OT 1.5x owed	Add OT 2.0x owed
ASBESTOS ABT-GEN	NW	ALL		34.79	35.79	1.5	1.5	2.0	2.0	7.75	19.84	0.00	0.80		13.80	27.59
ASBESTOS ABT-GEN	SE	ALL		34.78	35.78	1.5	1.5	2.0	2.0	8.70	18.90	0.00	0.80		13.80	27.60
ASBESTOS ABT-MEC	All	BLD		34.30	35.30	1.5	1.5	2.0	2.0	10.20	6.80	0.00	0.50	0.00	0.00	0.00
BOILERMAKER	All	BLD		42.50	46.00	1.5	1.5	2.0	2.0	7.07	27.21	0.00	1.06		0.00	0.00
BRICK MASON	All	BLD		36.74	38.94	1.5	1.5	2.0	2.0	9.05	15.68	0.00	0.91	0.00	0.00	0.00
CARPENTER	All	ALL		43.52	46.02	1.5	1.5	2.0	2.0	10.00	10.55	0.00	0.70	0.00	0.00	0.00
CEMENT MASON	All	ALL		38.00	39.00	1.5	1.5	2.0	2.0	11.00	16.80	0.00	0.50	0.00	14.15	28.30
CERAMIC TILE FINISHER	All	BLD		28.08		1.5	1.5	2.0	2.0	9.05	7.69	1.00	0.85	0.00	0.00	0.00
ELECTRIC PWR EQMT OP	NW	ALL		52.57	52.57	1.5	1.5	2.0	2.0	7.25	14.72	0.00	0.53	3.50	0.00	0.00
ELECTRIC PWR EQMT OP	SE	ALL		52.84	63.69	1.5	1.5	2.0	2.0	6.95	14.79	0.00	0.53		11.14	22.27
ELECTRIC PWR GRNDMAN	NW	ALL		34.63	34.63	1.5	1.5	2.0	2.0	7.25	9.70	0.00	0.35	3.50	0.00	0.00
ELECTRIC PWR GRNDMAN	SE	ALL		39.45	63.69	1.5	1.5	2.0	2.0	5.19	11.04	0.00	0.39		8.33	16.62
ELECTRIC PWR LINEMAN	NW	ALL		61.41	64.87	1.5	1.5	2.0	2.0	7.25	17.19	0.00	0.61	3.50	0.00	0.00
ELECTRIC PWR LINEMAN	SE	ALL		60.74	63.69	1.5	1.5	2.0	2.0	7.99	17.02	0.00	0.61		12.81	25.62
ELECTRIC PWR TRK DRV	NW	ALL		39.23	39.23	1.5	1.5	2.0	2.0	7.25	10.99	0.00	0.39	3.50	0.00	0.00
ELECTRIC PWR TRK DRV	SE	ALL		43.13	63.69	1.5	1.5	2.0	2.0	5.67	12.08	0.00	0.43		9.10	18.18
ELECTRICIAN	NW	ALL		49.79	53.54	1.5	1.5	2.0	2.0	11.25	14.55	0.00	0.25	1.25	0.87	1.74
ELECTRICIAN	SE	ALL		46.47	49.26	1.5	1.5	2.0	2.0	8.39	14.20	0.00	1.28	3.03	13.45	26.90
ELECTRONIC SYSTEM TECH	NW	BLD		35.80	38.80	1.5	1.5	2.0	2.0	11.25	8.80	0.00	0.40	0.00	0.54	1.07
ELECTRONIC SYSTEM TECH	SE	BLD		38.42	41.42	1.5	1.5	2.0	2.0	4.00	11.16	0.00	0.40	1.50	0.58	1.15
ELEVATOR CONSTRUCTOR	All	BLD		57.69	64.90	2.0	2.0	2.0	2.0	16.07	20.56	4.61	0.70		0.00	0.00
FLOOR LAYER	All	BLD		38.73	40.23	1.5	1.5	2.0	2.0	10.00	10.55	0.00	0.70	0.00	0.00	0.00
GLAZIER	All	BLD		41.25	43.75	1.5	1.5	2.0	2.0	9.76	14.23	0.00	1.26	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		41.73	42.73	1.5	1.5	2.0	2.0	11.74	13.50	0.00	1.05		0.00	0.00
IRON WORKER	All	ALL		38.80	40.80	1.5	1.5	2.0	2.0	10.55	18.50	0.00	0.48		14.77	29.53
LABORER	NW	ALL		34.29	35.29	1.5	1.5	2.0	2.0	7.75	19.84	0.00	0.80		13.80	27.59
LABORER	SE	ALL		34.28	35.28	1.5	1.5	2.0	2.0	8.70	18.90	0.00	0.80		13.80	27.60

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MACHINIST	All	BLD		55.74	59.74	1.5	1.5	2.0	2.0	9.93	8.95	1.85	1.47		0.00	0.00
MARBLE FINISHER	All	BLD		28.08		1.5	1.5	2.0	2.0	9.05	7.69	1.00	0.85	0.00	0.00	0.00
MARBLE MASON	All	BLD		33.62		1.5	1.5	2.0	2.0	9.05	9.25	1.00	0.94	0.00	0.00	0.00
MILLWRIGHT	All	ALL		43.52	46.02	1.5	1.5	2.0	2.0	10.00	10.55	0.00	0.70		0.00	0.00
OPERATING ENGINEER	All	BLD	1	43.95	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	2	42.82	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	3	38.34	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	4	44.95	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	5	45.95	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	6	46.50	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	7	46.80	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	8	47.10	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	9	47.75	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	10	48.25	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	11	45.95	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	12	46.95	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	13	43.95	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	BLD	14	38.40	46.95	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	1	42.45	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	2	41.32	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	3	36.84	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	4	43.45	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	5	44.45	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	6	45.00	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	7	45.30	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	8	45.60	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	9	46.25	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	10	46.75	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	11	44.45	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
OPERATING ENGINEER	All	HWY	12	45.45	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85

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OPERATING ENGINEER	All	HWY	13	36.90	45.45	1.5	1.5	2.0	2.0	14.45	19.75	0.00	1.65		17.93	35.85
PAINTER	All	BLD		32.87	34.37	1.5	1.5	2.0	2.0	7.85	14.25	0.00	0.70	0.00	0.00	0.00
PAINTER	All	HWY		34.07	35.57	1.5	1.5	2.0	2.0	7.85	14.25	0.00	0.70	0.00	0.00	0.00
PAINTER OVER 30 FT.	All	BLD		33.87	35.37	1.5	1.5	2.0	2.0	7.85	14.25	0.00	0.70	0.00	0.00	0.00
PAINTER PWR EQMT	All	BLD		33.87	35.37	1.5	1.5	2.0	2.0	7.85	14.25	0.00	0.70	0.00	0.00	0.00
PAINTER PWR EQMT	All	HWY		35.07	36.57	1.5	1.5	2.0	2.0	7.85	14.25	0.00	0.70	0.00	0.00	0.00
PILEDRIIVER	All	ALL		43.52	46.02	1.5	1.5	2.0	2.0	10.00	10.55	0.00	0.70		0.00	0.00
PIPEFITTER	N	BLD		50.11	55.12	1.5	1.5	2.0	2.0	5.55	10.90	0.00	0.90	0.00	0.00	0.00
PIPEFITTER	S	BLD		42.55	46.55	1.5	1.5	2.0	2.0	10.21	10.85	0.00	1.75		0.00	0.00
PLASTERER	All	BLD		36.50	38.00	1.5	1.5	2.0	2.0	11.00	12.00	0.00	0.75	0.00	11.88	23.75
PLUMBER	N	BLD		50.11	55.12	1.5	1.5	2.0	2.0	5.55	10.90	0.00	0.90	0.00	0.00	0.00
PLUMBER	S	BLD		42.25	44.75	1.5	1.5	2.0	2.0	10.95	8.40	0.00	1.70		0.00	0.00
ROOFER	All	BLD		37.00	39.50	1.5	1.5	2.0	2.0	9.50	10.20	0.00	0.76		0.00	0.00
SHEETMETAL WORKER	All	ALL		39.53	41.03	1.5	1.5	2.0	2.0	11.05	9.81	2.37	0.71	1.88	0.00	0.00
SPRINKLER FITTER	All	BLD		48.38	52.38	2.0	2.0	2.0	2.0	10.90	15.45	0.00	1.15		0.00	0.00
TERRAZZO FINISHER	All	BLD		28.08		1.5	1.5	2.0	2.0	9.05	7.69	1.00	0.85	0.00	0.00	0.00
TERRAZZO MASON	All	BLD		33.62		1.5	1.5	2.0	2.0	9.05	9.25	1.00	0.94	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	1	42.25	46.61	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	2	42.83	46.61	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	3	43.15	46.61	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	4	43.50	46.61	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	5	44.61	46.61	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	O&C	1	33.80	37.26	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	O&C	2	34.26	37.26	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	O&C	3	34.52	37.26	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	O&C	4	34.80	37.26	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	All	O&C	5	35.69	37.26	1.5	1.5	2.0	2.0	15.39	7.73	0.00	0.25	0.00	0.00	0.00

Legend

Rg Region

Madison County Prevailing Wage Rates posted on 1/25/2024

Type Trade Type - All, Highway, Building, Floating, Oil & Chip, Rivers

C Class

Base Base Wage Rate

OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OT Sa Overtime pay required for every hour worked on Saturdays

OT Su Overtime pay required for every hour worked on Sundays

OT Hol Overtime pay required for every hour worked on Holidays

H/W Health/Welfare benefit

Vac Vacation

Trng Training

Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations MADISON COUNTY

ELECTRICIANS AND ELECTRIC SYSTEMS TECHNICIAN (NORTHWEST) - Townships of Godfrey, Foster and Wood River, and the western one mile of Moro, Ft. Russell and Edwardsville, south to the north side of Hwy. 66 and west to the Mississippi River. This includes SIU-Edwardsville Dental Facility and Alton Mental Health Hospital.

ELECTRICIANS AND ELECTRIC SYSTEMS TECHNICIAN (SOUTHEAST) - Remainder of county not covered by ELECTRICIANS AND ELECTRIC SYSTEMS TECHNICIAN (NW) including SIU-Edwardsville Main Campus.

LABORERS (NORTHWEST) - That area northwest of a diagonal line running from the Mississippi River at the intersection of the waterway known as Wood River at Maple Island, northeast through the highway intersection of Illinois Routes 3 and 143 and following the boundary of Alton/East Alton, then preceding northeast to the county line at a point approximately one mile west of Illinois Route 159.

PLUMBERS AND PIPEFITTERS (SOUTH) - That part of the county South of a line between Mitchell and Highland including the town of Glen Carbon.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including

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mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER AND MARBLE FINISHER

The handling, at the building site, of all sand, cement, tile, marble or stone and all other materials that may be used and installed by [a] tile layer or marble mason. In addition, the grouting, cleaning, sealing, and mixing on the job site, and all other work as required in assisting the setter. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

OPERATING ENGINEER - BUILDING

GROUP I

Cranes, Draglines, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, Screws on Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines, or Backfiller, Cherrypickers, overhead Cranes, Roller, Steam or Gas, Concrete Pavers, Excavator Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than derrick type), Mud Jacks, or Well Drilling Machines, Boring Machines or Track Jacks, Mixers, Conveyors (two), Air Compressors (two) Water Pumps, regardless of size (two), Welding Machines (two), Siphons or Jets (two), Winch Head or Apparatuses (two), Light Plants (two), Waterblasters (two), all Tractors, regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (one), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master

Madison County Prevailing Wage Rates posted on 1/25/2024

Mechanic and Heavy Duty Mechanic, Autonomous and semi-autonomous equipment, concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair, greasing, and fueling of all diesel hammers, the operation, set-up and cleaning of bidwells, concrete placement booms, the alterations, repair of all barges, water blasters of all sizes and their clutches, mobile lifts, hydraulic jacks where used for hoisting, diesel or gas powered flashing signs used for traffic control, micro pavers, log skidders, iceolators used on and off of pipeline, condor cranes, drill rigs of all sizes, bow boats, survey boats, ross carriers, bob-cats and all their attachments, skid steer loaders and all their attachments, creter crane, direct drive electric motors the bolting and unbolting the adjusting and shimming, (dewatering jobs, whirley crane, conveyor belts) etc., batch plants (all sizes), roto mills, conveyors systems of any size and any configuration, hydroseeders and straw-blowers all sizes, operation, repair, service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, grout machines regardless of size, Nail Launchers when mounted on a machine or self-propelled, con-cover machines, Goldhofer and similar S.P.M.T. (self-propelled modular transporters) heavy transport units and all Operators (except those listed below).

GROUP II

Assistant Operators

GROUP III

Air Compressors (one), Water Pumps, regardless of size (one), Water-blasters (one), Welding Machine (one), Mixers (one bag), Conveyor (one), Siphon or Jet (one), Light Plant (one), Heater (one), Immobile Track Air (one), and Self-Propelled Walk Behind Rollers.

GROUP IV

CCO-17 ton and below

GROUP V

CCO-17.5 to 35 Ton and Boom to 50'

GROUP VI

CCO-35.5 to 75 Ton and Boom to 100'

GROUP VII

CCO-75.5 to 125 Ton and Boom to 125'

GROUP VIII

CCO- 125.5 to 200 Ton and Boom to 100'

GROUP IX

CCO-200.5 to 300 Ton and Boom to 100'

GROUP X

CCO-300.5 to 450 Ton and Boom to 150'

GROUP XI

Madison County Prevailing Wage Rates posted on 1/25/2024

Master Mechanic

GROUP XII

Operator Foreman, Licensed Boat Pilot

GROUP XIII

Track type hydraulic hoes & crawler gradealls prep time.

GROUP XIV

Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity)
Concrete Plant Oiler, Blacktop Plant oiler and Creter Crane Oiler (when required), barge tenders, oilers on drill rigs used for caisson or for pile driving and Oiler.

OPERATING ENGINEERS – Highway

GROUP I

Cranes, Draglines, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, Screws on Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines, or Backfiller, Cherrypickers, overhead Cranes, Roller, Steam or Gas, Concrete Pavers, Excavator Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than derrick type), Mud Jacks, or Well Drilling Machines, Boring Machines or Track Jacks, Mixers, Conveyors (two), Air Compressors (two) Water Pumps, regardless of size (two), Welding Machines (two), Siphons or Jets (two), Winch Head or Apparatuses (two), Light Plants (two), Waterblasters (two), all Tractors, regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (one), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair, greasing, and fueling of all diesel hammers, the operation, set-up and cleaning of bidwells, concrete placement booms, the alterations, repair of all barges, water blasters of all sizes and their clutches, mobile lifts, hydraulic jacks where used for hoisting, diesel or gas powered flashing sings used for traffic control, micro pavers, log skidders, iceolators used on and off of pipeline, condor cranes, drill rigs of all sizes, bow boats, survey boats, ross carriers, bob-cats and all their attachments, skid steer loaders and all their attachments, creter crane, direct drive electric motors the bolting and unbolting the adjusting and shimming, (dewatering jobs, whirley crane, conveyor belts) etc., batch plants (all sizes), roto mills, conveyors systems of any size and any configuration, hydroseeders and straw-blowers all sizes, operation, repair, service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, grout machines regardless of size, Nail launchers when mounted on a machine or self-propelled, con-cover machines, Goldhofer and similar S.P.M.T. (self-propelled modular transporters) heavy transport units and all Operators (except those listed below).

Madison County Prevailing Wage Rates posted on 1/25/2024

GROUP II

Assistant Operators

GROUP III

Air Compressors (one), Water Pumps, regardless of size (one), Water-blasters (one), Welding Machine (one), Mixers (one bag), Conveyor (one), Siphon or Jet (one), Light Plant (one), Heater (one), Immobile Track Air (one), and Self-Propelled Walk Behind Rollers.

GROUP IV

CCO-17 ton and below

GROUP V

CCO-17.5 to 35 Ton and Boom to 50'

GROUP VI

CCO- 35.5 to 75 Ton and Boom to 100'

GROUP VII

CCO- 75.5 to 125 Ton and Boom to 75'

GROUP VIII

CCO- 125.5 to 200 Ton and Boom to 100'

GROUP IX

CCO- 200.5 to 300 Ton and Boom to 100'

GROUP X

CCO- 300.5 to 450 Ton and Boom to 150'

GROUP XI

Master Mechanic, Working Foreman/Mechanic.

GROUP XII

Operator Foreman, licensed boat pilot.

GROUP XIII

Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler and Creter Crane Oiler (when required), barge tenders, oilers on drill rigs used for caisson or for pile driving, and Oiler.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Madison County Prevailing Wage Rates posted on 1/25/2024

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

TERRAZZO FINISHER

The handling of all materials used for Mosaic and Terrazzo work including preparing, mixing by hand, by mixing machine or transporting of pre-mixed materials and distributing with shovel, rake, hoe, or pail, all kinds of concrete foundations necessary for Mosaic and Terrazzo work, all cement terrazzo, magnesite terrazzo, Do-O-Tex terrazzo, epoxy matrix ter-razzo, exposed aggregate, rustic or rough washed for exterior or interior of buildings placed either by machine or by hand, and any other kind of mixture of plastics composed of chips or granules when mixed with cement, rubber, neoprene, vinyl, magnesium chloride or any other resinous or chemical substances used for seamless flooring systems, and all other building materials, all similar materials and all precast terrazzo work on jobs, all scratch coat used for Mosaic and Terrazzo work and sub-bed, tar paper and wire mesh (2x2 etc.) or lath. The rubbing, grinding, cleaning and finishing of same either by hand or by machine or by terrazzo resurfacing equipment on new or existing floors. When necessary finishers shall be allowed to assist the mechanics to spread sand bed, lay tarpaper and wire mesh (2x2 etc.) or lath. The finishing of cement floors where additional aggregate of stone is added by spreading or sprinkling on top of the finished base, and troweled or rolled into the finish and then the surface is ground by grinding machines.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

Madison County Prevailing Wage Rates posted on 1/25/2024

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

Application Nr.:	17694-1
Application Date:	5/24/2023
Period To:	5/31/2023
Owner's Project Nr.:	
Owner's P.O. Nr.:	

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Application Date:	5/24/2023
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Owner's Project Nr.:	
Owner's P.O. Nr.:	

[illegible]

MARKET ST WATER MAIN - PHASE 1

WATER MAIN REPLACEMENT

CITY OF TROY
116 E. MARKET STREET
TROY, IL 62294 (MADISON COUNTY)

ENGINEERS



OATES ASSOCIATES

100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2200
www.oatesassociates.com

Collinsville St. Louis Belleville St. Charles

ILLINOIS DESIGN FIRM LICENSE NO. 184.001115



PROJECT MANAGEMENT & CIVIL ENGINEER:

OATES ASSOCIATES, INC.

EASTPORT BUSINESS CENTER 1
100 LANTER COURT, SUITE 1
COLLINSVILLE, ILLINOIS 62234

CONTACT: SARITA MELENDEZ, PE
PROJECT MANAGER
618.345.2200
sarita.melendez@oatesassociates.com

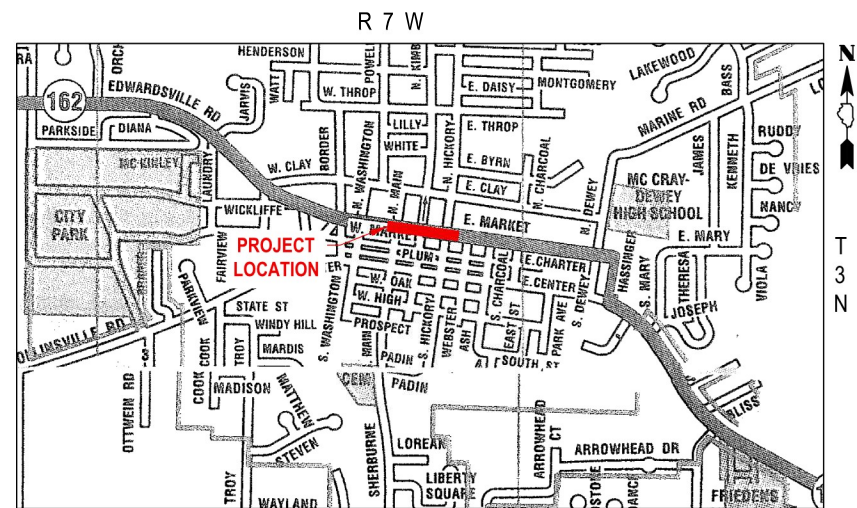
OWNER:

THE CITY OF TROY

116 EAST MARKET STREET
TROY, ILLINOIS 62294

CONTACT: JAY KEEVEN
CITY ADMINISTRATOR
618.667.9924
jkeeven@troyl.us

LOCATION MAP



LEGEND

EX	NEW	
		SIGN (TRAFFIC)
		SIGN (ADVERTISEMENT)
		TELEPHONE / POWER POLE
		LIGHT POLE
		ANCHOR POLE
		GUY WIRE
		FIRE HYDRANT
		GAS VALVE
		WATER VALVE
		ELECTRIC METER
		GAS METER
		TELEPHONE BOX
		ELECTRIC BOX
		MAILBOX
		CLEANOUT

EX	NEW	
		AREA INLET
		CATCH BASIN
		CURB INLET
		MANHOLE
		TRAFFIC SIGNAL BOX
		TRAFFIC SIGNAL
		HANDHOLE
		SHRUB
		TREE (DECIDUOUS)
		TREE (EVERGREEN)
		CONTROL POINT
		BENCHMARK

LINETYPES

EX		NEW
	WATER LINE	
	GAS LINE	
	TELEPHONE LINE	
	OVERHEAD ELECTRIC LINE	
	ELECTRIC LINE	
	FIBER OPTIC LINE	
	STORM SEWER	
	SANITARY SEWER	
	FENCE LINE	
	TREE LINE	

MATERIAL SYMBOLS

	TRENCH BACKFILL
	NEW 4" CONCRETE SIDEWALK
	NEW 6" CONCRETE PAVEMENT WITH 2" HMA SURFACE COURSE (CLASS B PATCH)
	NEW 6" CONCRETE PAVEMENT WITH 2" HMA SURFACE COURSE (CLASS C PATCH)
	CONCRETE SIDEWALK REMOVAL
	6" CONCRETE PAVEMENT WITH 2" HMA SURFACE REMOVAL (CLASS B PATCH)
	O/C PAVEMENT REMOVAL (CLASS C PATCH)
	CONCRETE CURB REMOVAL

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES, UTILITIES & COMMITMENTS
3 - 4	WATER MAIN - PLAN & PROFILE
5	TRAFFIC CONTROL PLAN
6 - 7	WATER MAIN - REMOVALS
8 - 9	WATER MAIN - DETAILS
10	PAVEMENT - DETAILS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-08	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM EDGE OF PAVEMENT
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

ABBREVIATIONS

AGG	AGGREGATE	INV	INVERT	RNR	REMOVE AND REPLACE
APPROX	APPROXIMATE	LF	LINEAR FEET	ROW	RIGHT OF WAY
ASPH	ASPHALT	LAT	LATERAL	S	SOUTH
BL	BASELINE	LT	LEFT	SAN	SANITARY
CL	CENTERLINE	MH	MANHOLE	SEW	SEWER
CONC	CONCRETE	MIN	MINIMUM	ST	STREET
CLSM	CONCRETE LOW STRENGTH MATERIAL	N	NORTH	STM	STORM
DIA	DIAMETER	NO	NUMBER	STA	STATION
DND	DO NOT DISTURB	NTS	NOT TO SCALE	TA	TYPE A
E	EAST	O/C	OIL AND CHIP	TB	THRUST BLOCK
EA	EACH	OC	ON CENTER	TBM	TEMPORARY BENCHMARK
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	TBR	TO BE REMOVED
EX	EXISTING	PL	PROPERTY LINE	TBR&R	TO BE REMOVED AND REPLACED
HMA	HOT MIX ASPHALT	PVC	POLYVINYL CHLORIDE PIPE	UIP	USE IN PLACE
ID	INSIDE DIAMETER	PVMT	PAVEMENT	W	WIDTH OR WEST
IN	INCHES	RD	ROAD		

2/8/2024 - BID DOCUMENTS

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	ODD FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.		

GENERAL NOTES

UTILITIES

1. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF J.U.L.I.E., UNLESS NOTED OTHERWISE.

AMEREN ILLINOIS (GAS & ELECTRIC)
2600 NORTH CENTER STREET
MARYVILLE, IL 62062
(618) 346-1275

AT&T (FIBER)
203 GOETHE STREET
COLLINSVILLE, IL 62234
(618) 346-6499

CHARTER / SPECTRUM COMMUNICATIONS (FIBER)
815 CHARTER COMMONS
TOWN & COUNTRY, MO 63017
(314) 393-5028

EVERSTREAM (FIBER)
900 WALNUT STREET, SUITE 150
ST. LOUIS, MO 63102
(314) 380-8454

CITY OF TROY (WATER & SANITARY SEWER)
116 EAST MARKET STREET
TROY, IL 62294
(618) 667-9924

CLEARWAVE COMMUNICATIONS (FIBER)
1100 N GOLF ROAD, SUITE K960
MARION, IL 62959
(877) 522-9283

THE ABOVE INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE OWNER AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATIONS (J.U.L.I.E)
PHONE: 800-892-0123

2. EXISTING UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED TO BE APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. ILLINOIS LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY CALLING THE J.U.L.I.E. SYSTEM AT 800-892-0123 AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-J.U.L.I.E. MEMBERS MAY BE CONTACTED DIRECT. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED ABOVE.
3. THE CONTRACTOR SHALL KEEP ALL UTILITIES IN SERVICE DURING CONSTRUCTION OPERATIONS. MEANS & METHODS TO ACCOMPLISH THIS ARE THE CONTRACTOR'S RESPONSIBILITY, BUT SOME EXAMPLES INCLUDE POTHOLING TO AVOID DISRUPTION, SHORING TO LIMIT EXCAVATION, PUMPING TO MAINTAIN FLOW, AND TEMPORARY SUPPORTING TO MAINTAIN STABILITY.
4. SHOULD UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL CONSULT WITH THE UTILITY OWNER AND ENGINEER IMMEDIATELY FOR DIRECTIONS. THE CONTRACTOR SHALL COOPERATE WITH THE SERVICES AND FACILITIES IN OPERATION AND REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER. IF THE UTILITY OWNER IS FOUND NOT RESPONSIBLE, THE COST TO REPAIR DAMAGED UTILITIES UNCHARTED OR INCORRECTLY CHARTED WILL BE CONSIDERED AN UNFORESEEN CONDITION AND WILL BE PAID FOR AT AN AGREED UPON PRICE OR ON A TIME AND MATERIAL BASIS.

GENERAL CONSTRUCTION

1. ALL SITE WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS INCLUDING THE CITY OF TROY'S MUNICIPAL CODE AND WITH THE LATEST EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND "HIGHWAY STANDARDS", IN SO FAR AS THEY APPLY, EXCEPT THAT ALL REFERENCES TO MEASUREMENT AND PAYMENT SHALL BE DELETED.
2. ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF TROY'S MUNICIPAL CODE AND WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", UNLESS OTHERWISE PROVIDED HEREIN.
3. IF THERE ARE ANY DISCREPANCIES BETWEEN THESE PLANS, SPECIFICATIONS, OR STANDARDS BY GOVERNING BODIES, THE MOST STRINGENT AND RELEVANT REQUIREMENT SHALL BE BINDING AND APPLICABLE.
4. UNLESS OTHERWISE INDICATED, THE COST OF WORK REQUIRED UNDER ANY GENERAL, PLAN, OR KEYED NOTE WILL NOT BE PAID FOR SEPARATELY, BUT IT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR THE VARIOUS ITEMS OF WORK INVOLVED.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO ACCOMPLISH THE WORK. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED UNTIL ALL NECESSARY PERMITS HAVE BEEN SECURED. THE COST OF THE PERMITS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
6. ALL CONSTRUCTION SHALL CONFORM TO THE PLANS AND SPECIFICATIONS. IF THE CONTRACTOR CHOOSES TO MAKE MODIFICATIONS DURING CONSTRUCTION, EVEN IF THE WORK IS AFFECTED BY OMISSION OR DISCREPANCY, WITHOUT THE APPROVAL OF THE ENGINEER, HE/ SHE IS MAKING SUCH CHANGES AT HIS/ HER OWN RISK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY CHANGES FROM THE APPROVED DOCUMENTS.
7. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION LAYOUT AND MATERIAL TESTING NECESSARY TO COMPLETE THE PROJECT TO THE PLANS AND SPECIFIED TOLERANCES.
8. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR THE OWNER'S RECORDS.
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD, INCLUDING POTHOLING POTENTIAL UTILITY CONFLICTS, PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
10. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE TRENCH WIDTH AND PLANNED REMOVAL AREAS SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL FERTILIZE, SEED, AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION, EXCEPT AS NOTED OTHERWISE IN THE PLANS. THE QUANTITY PROVIDED FOR FERTILIZER, SEED, AND MULCH INCLUDES DISTURBANCES WITHIN TEN (10) FEET OF THE CENTERLINE OF PIPE. FERTILIZER, SEEDING, AND MULCH OUTSIDE THESE LIMITS DUE TO CONSTRUCTION ENCROACHMENTS SHALL BE RESTORED TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE CONTRACT.

GENERAL CONSTRUCTION (cont.)

12. THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION. AGGREGATE FOR TEMPORARY ACCESS OR OTHER TEMPORARY ELEMENTS MAY BE REQUIRED TO ACCOMPLISH REQUIREMENT.
13. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL SIGNS AND BARRICADES THROUGHOUT THE CONSTRUCTION PERIOD. ALL MATERIAL PILES, EQUIPMENT, OPEN EXCAVATIONS OR THEIR OBSTRUCTIONS, OR HAZARDS TO MOTORISTS OR PEDESTRIANS SHALL BE ENCLOSED BY FENCES OR PROTECTED BY BARRICADES.
14. THE CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND LABOR ASSOCIATED WITH THIS WORK FOR A PERIOD OF ONE (1) YEAR.
15. THIS IS A LUMP SUM PROJECT. THE BID ITEMS AND APPROPRIATE QUANTITIES SHALL BE VERIFIED BY THE CONTRACTOR AND ARE FOR BIDDING PURPOSES ONLY.

REMOVALS

1. THE CONTRACTOR SHALL INSPECT AND ACCEPT THE SITE CONDITIONS PRIOR TO MOBILIZATION. DOCUMENTATION FOR ANY CONCERNS SHALL BE PROVIDED TO OWNER IN WRITING AND WITH PHOTOGRAPHS PRIOR TO MOBILIZATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR REPAIR OF DAMAGED EXISTING FEATURES TO REMAIN THAT WERE NOT ADDRESSED BEFORE THE CONTRACTOR MOBILIZED ON SITE.
2. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL EXISTING FEATURES SUCH AS SIGNS, PAVEMENT, CURB, AND TREES FROM DAMAGE. IF ANY FEATURE TO REMAIN IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE OWNER OR ENGINEER.
3. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. IF ANY PROPERTY MARKER IS TO REMAIN AND IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER OR OWNER.
4. THE CONTRACTOR SHALL REMOVE ALL EXISTING FEATURES INCLUDING, BUT NOT LIMITED TO PAVEMENT (TO INCLUDE OIL & CHIP SURFACES), CURB, SIDEWALK, DRIVEWAY PAVEMENT, CULVERTS, HEADWALLS, RIPRAP, FENCING, AND RETAINING WALLS WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY UNLESS NOTED OTHERWISE ON THE PLANS. ALL FEATURES WHICH ARE TO BE REMOVED AND FOR WHICH THERE IS NOT A SPECIFIC CALLOUT, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
5. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN AND AVOID COMPACTING THE AREA UNDER THE TREE'S DRIPLINE. IF TREE ROOTS ARE ENCOUNTERED, THEY SHALL BE SAWN OFF AT THE EDGE OF THE EXCAVATION RATHER THAN RIPPED WITH EQUIPMENT.
6. ANY EXCESS EARTH EXCAVATION SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED.
7. FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE REMOVAL ITEMS ACCORDING TO SECTION 440 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. OIL & CHIP ROADWAY REMOVAL SHALL BE TREATED AS HMA PAVEMENT REMOVAL.
8. ALL CONCRETE PAVEMENT AND SIDEWALK REMOVAL SHALL BE REMOVED TO THE NEAREST EXISTING JOINT LOCATION. NO PARTIAL SLAB REMOVALS WILL BE ALLOWED.
9. THE CONTRACTOR SHALL REMOVE, MAINTAIN IN A TEMPORARY LOCATION, AND PERMANENTLY RESET ALL MAILBOXES, TRAFFIC SIGNS, STREET NAME SIGNS, AND ALL PRIVATE AND COMMERCIAL SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS ACCORDING TO ARTICLES 107.20 AND 107.25 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND AS DIRECTED BY THE ENGINEER.
10. THE CONTRACTOR SHALL REMOVE TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND RE-ERECT THEM AT TEMPORARY LOCATIONS TO SAFELY MAINTAIN TRAFFIC CONTROL THROUGHOUT THE CONSTRUCTION PERIOD. AS SOON AS CONSTRUCTION OPERATIONS ALLOW, ALL TRAFFIC SIGNS SHALL BE PERMANENTLY LOCATED.
11. WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE COMPLETELY REMOVING TREES AND ROOTS UNDER PAVED SURFACES.
12. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH SUITABLE MATERIAL AS APPROVED BY THE ENGINEER. UNLESS NOTED OTHERWISE IN THE PLANS, THE COST TO REMOVE AND REPLACE UNSUITABLE MATERIAL WILL BE CONSIDERED AN UNFORESEEN CONDITION AND WILL BE PAID FOR AT AN AGREED UPON PRICE OR ON A TIME AND MATERIAL BASIS.

PAVEMENT MARKING

1. PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH TEMPORARY PAVEMENT MARKINGS.

EARTHWORK & GRADING

1. FINAL PAYMENT ON RETAINAGE WILL NOT BE MADE UNTIL TRENCHES HAVE SETTLED AND THE LAWN HAS ESTABLISHED TO A 95% LEVEL WITH NO INDIVIDUAL BARE SPOTS LARGER THAN 6"X6" IN SIZE AFTER ONE GROWING SEASON (APRIL TO MAY OR SEPTEMBER TO OCTOBER).
2. DEWATERING OF EXCAVATION AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION FROM NEW AREAS TO ADJACENT, EXISTING AREAS AS NECESSARY.

EROSION CONTROL

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SILTATION CONTROL, AS NEEDED, TO PREVENT SILTATION OF ADJACENT PROPERTIES, UNTIL THE VEGETATION IN ALL DISTURBED AREAS HAS BEEN ESTABLISHED, AT WHICH TIME HE/SHE SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY SILTATION CONTROL AND REPAIR OF ANY ERODED AREAS. EROSION CONTROL MEASURES SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH APPLICABLE PLAN DETAILS AND THE ILLINOIS URBAN MANUAL. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED UNTIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.

COMMITMENTS

NONE

FILE NAME = 223007.004 - GENERAL NOTES.DWG



USER NAME = DAYNE THORP	DESIGNED - SJM	REVISED -
	DRAWN - DAT	REVISED -
PLOT SCALE = 1" = 1'	CHECKED - TLC	REVISED -
PLOT DATE = 2024-02-08	DATE - 2024-02-08	REVISED -



GENERAL NOTES, UTILITIES & COMMITMENTS

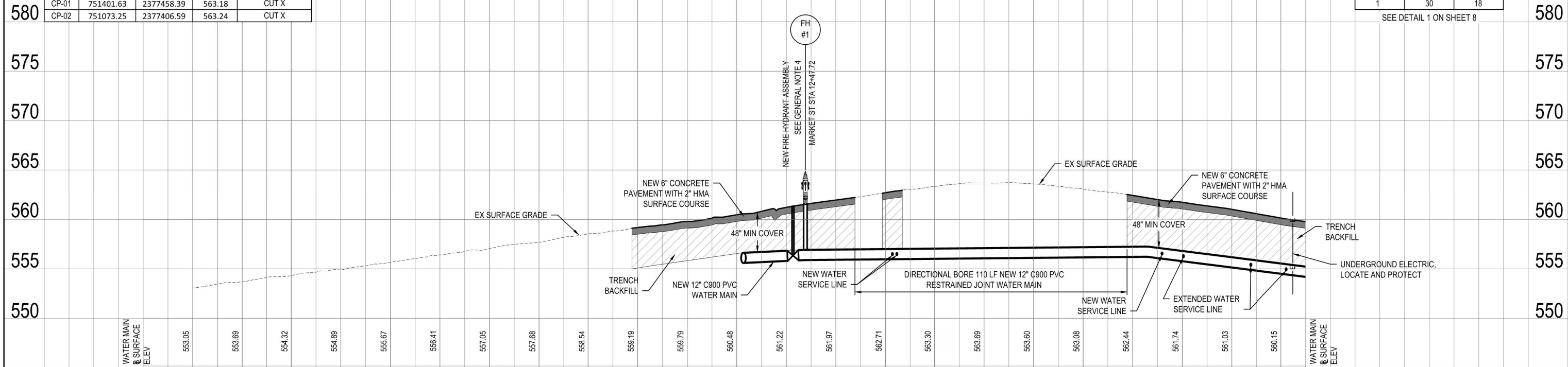
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MADISON	10	2
MARKET ST. WATER MAIN - PHASE 1				
CITY OF TROY		ILLINOIS	LOCAL	

PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNED		
CHECKED		
NO. _____		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
NO. _____		

FILE NAME = 223007.004 - DESIGN.DWG

CONTROL POINT TABLE				
PT #	NORTHING	EASTING	ELEV	DESCRIPTION
CP-01	751401.63	2377458.39	563.18	CUT X
CP-02	751073.25	2377406.59	563.24	CUT X

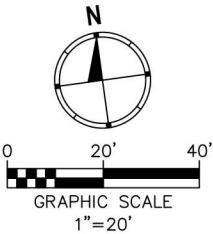


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	PLOT SCALE = 1" = 1'	DRAWN - DAT	REVISED -
	PLOT DATE = 2024-02-01	CHECKED - TLC	REVISED -
		DATE - 2024-02-01	REVISED -



WATER MAIN - PLAN & PROFILE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MADISON	10	3
MARKET ST. WATER MAIN - PHASE 1				
CITY OF TROY	ILLINOIS	LOCAL		



GENERAL NOTES

- SHEETING, BRACING, AND SHORING SHALL BE INSTALLED PRIOR TO TRENCH EXCAVATION TO PROTECT IDOT TRAVELED WAY PAVEMENT FROM DISTURBANCE.
- CONTRACTOR TO REPLACE METER PITS, METERS, AND METER YOKES FOR ALL NEW WATER SERVICE LINES. OWNER TO FURNISH MATERIALS. CONTRACTOR TO SUPPLY SADDLE, CORP, AND SERVICE LINE MATERIAL.
- NEW WATER SERVICE LINES TO MATCH EXISTING SIZE.
- WATER MAIN DEPTH OF COVER SHALL BE 48" MINIMUM BELOW EXISTING GRADE UNLESS OTHERWISE NOTED.
- FIRE HYDRANT TO BE INSTALLED FOR EXISTING GROUND ELEVATION OF 561.53'

MATERIAL SYMBOLS

- TRENCH BACKFILL
- NEW 4" CONCRETE SIDEWALK
- NEW 6" CONCRETE PAVEMENT WITH 2" HMA SURFACE COURSE (CLASS B PATCH)
- NEW 6" CONCRETE PAVEMENT WITH 2" HMA SURFACE COURSE (CLASS C PATCH)

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	NO.		

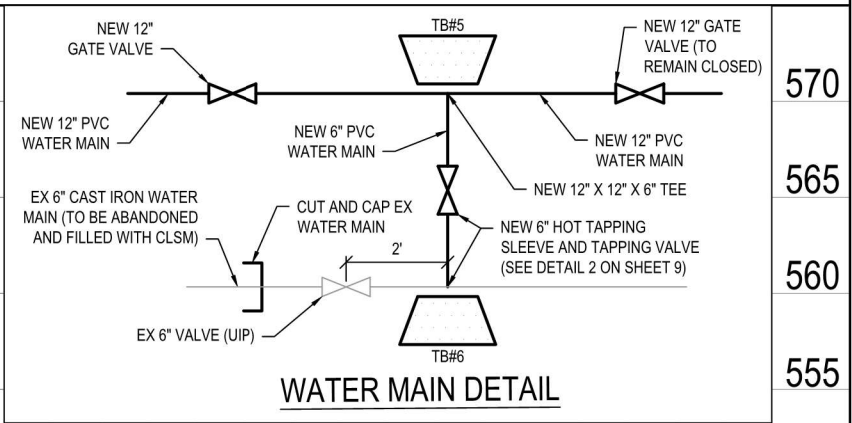
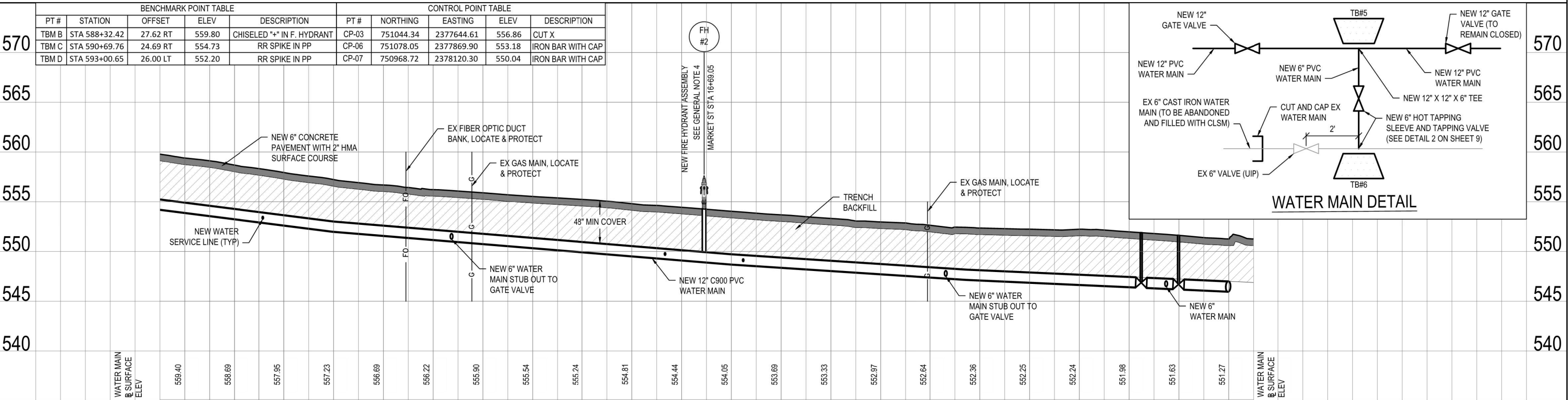
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	NO.		


FILE NAME = 223007.004 - DESIGN.DWG

THRUST BLOCK SCHEDULE		
TB#	"A" (IN)	"B" (IN)
2	30	18
3	30	18
4	30	18
5	30	18
6	30	18

SEE DETAIL 1 ON SHEET 8

BENCHMARK POINT TABLE					CONTROL POINT TABLE				
PT #	STATION	OFFSET	ELEV	DESCRIPTION	PT #	NORTHING	EASTING	ELEV	DESCRIPTION
TBM B	STA 588+32.42	27.62 RT	559.80	CHISELED "+" IN F. HYDRANT	CP-03	751044.34	2377644.61	556.86	CUT X
TBM C	STA 590+69.76	24.69 RT	554.73	RR SPIKE IN PP	CP-06	751078.05	2377869.90	553.18	IRON BAR WITH CAP
TBM D	STA 593+00.65	26.00 LT	552.20	RR SPIKE IN PP	CP-07	750968.72	2378120.30	550.04	IRON BAR WITH CAP

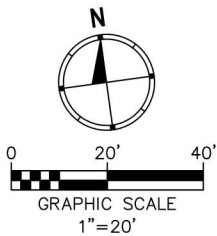


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	PLOT SCALE = 1" = 1'	DRAWN - DAT	REVISED -
	PLOT DATE = 2024-02-01	CHECKED - TLC	REVISED -
		DATE - 2024-02-01	REVISED -



WATER MAIN - PLAN & PROFILE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MADISON	10	4
MARKET ST. WATER MAIN - PHASE 1				
CITY OF TROY	ILLINOIS	LOCAL		



GENERAL NOTES

1. SHEETING, BRACING, AND SHORING SHALL BE INSTALLED PRIOR TO TRENCH EXCAVATION TO PROTECT IDOT TRAVELED WAY PAVEMENT FROM DISTURBANCE.
2. CONTRACTOR TO REPLACE METER PITS, METERS, AND METER YOKES FOR ALL NEW WATER SERVICE LINES. OWNER TO FURNISH MATERIALS. CONTRACTOR TO SUPPLY SADDLE, CORP, AND SERVICE LINE MATERIAL.
3. NEW WATER SERVICE LINES TO MATCH EXISTING SIZE.
4. WATER MAIN DEPTH OF COVER SHALL BE 48" MINIMUM BELOW EXISTING GRADE UNLESS OTHERWISE NOTED.
5. FIRE HYDRANT TO BE INSTALLED FOR EXISTING GROUND ELEVATION OF 554.27'

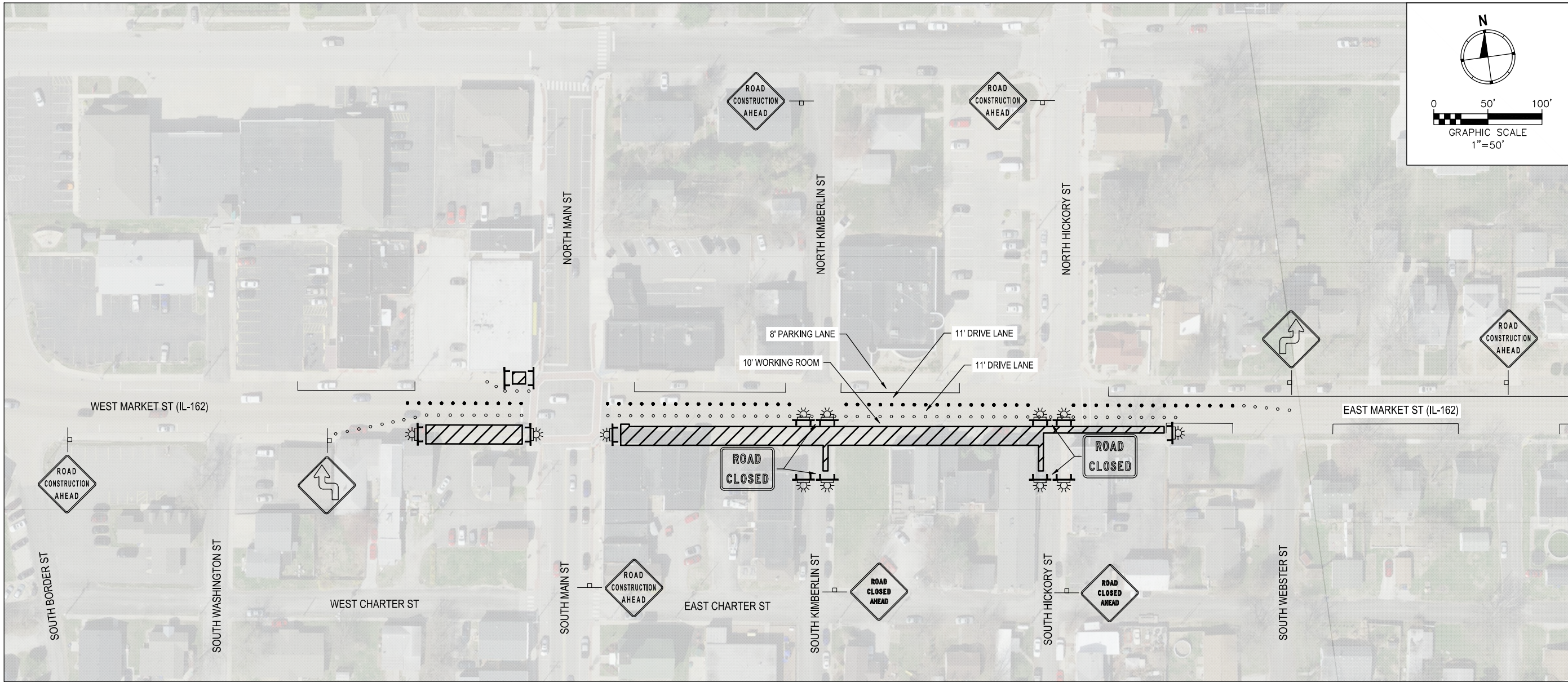
MATERIAL SYMBOLS

- TRENCH BACKFILL
- NEW 4" CONCRETE SIDEWALK
- NEW 6" CONCRETE PAVEMENT WITH 2" HMA SURFACE COURSE (CLASS B PATCH)
- NEW 6" CONCRETE PAVEMENT WITH 2" HMA SURFACE COURSE (CLASS C PATCH)

PLAN	NOTE BOOK NO.	SURVEYED PLOTTED ALIGNMENT CHECKED DATE CADD FILE NAME	BY	DATE

PROFILE	NOTE BOOK NO.	SURVEYED PLOTTED GRADES CHECKED DATE STRUCTURE NOTATIONS CHKD	BY	DATE

FILE NAME = 223007.004 - DESIGN.DWG



TRAFFIC CONTROL NOTES

- ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND MAINTENANCE TO BE INCLUDED IN THE LUMP SUM BID COST FOR THE PROJECT.
- TRAFFIC DRUM SPACING AT 20' CENTERS.
- THE CONTRACTOR SHALL MAINTAIN DRAINAGE THROUGHOUT CONSTRUCTION.
- TYPE A LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON THE FIRST SIGN IN ADVANCE OF THE WORK SITE AND ON ALL TYPE III BARRICADES DURING HOURS OF DARKNESS.
- BARRICADES AND SIGNS SHALL BE POSITIONED AS SHOWN, ACCORDING TO HIGHWAY STANDARDS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND AS DIRECTED BY THE ENGINEER.
- THE EXACT LOCATION OF BARRICADES AND SIGNS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR, FOR APPROVAL BY THE ENGINEER, PRIOR TO INSTALLATION.
- SEE HIGHWAY STANDARDS 701006, 701801, AND 701901 FOR ADDITIONAL TRAFFIC CONTROL GUIDELINES.

TRAFFIC CONTROL LEGEND

	WORK AREA
	CONE, DRUM, OR BARRICADE
	TUBULAR MARKER
	TRAFFIC CONTROL SIGN LOCATION
	TYPE III BARRICADE
	TYPE A LOW INTENSITY FLASHING LIGHT

TRAFFIC CONTROL SIGNAGE

	W20-5R (36" x 36") FLUORESCENT ORANGE		W1-3L (36" x 36") FLUORESCENT ORANGE
	W20-3 (36 x 36") FLUORESCENT ORANGE		W1-3R (36" x 36") FLUORESCENT ORANGE
	R11-2 (48" x 30") FLUORESCENT ORANGE		



USER NAME =	DAYNE THORP	DESIGNED -	SJM	REVISED -	
		DRAWN -	DAT	REVISED -	
PLOT SCALE =	1" = 1'	CHECKED -	TLC	REVISED -	
PLOT DATE =	2024-02-08	DATE -	2024-02-08	REVISED -	



TRAFFIC CONTROL PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MADISON	10	5
MARKET ST. WATER MAIN - PHASE 1				
CITY OF TROY	ILLINOIS			LOCAL

PLAN	SURVEYED PLOTTED ALIGNMENT CHECKED DATE CADD FILE NAME	BY	DATE
NOTE BOOK NO.			

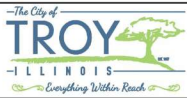
PROFILE	SURVEYED PLOTTED GRADES CHECKED DATE STRUCTURE NOTATIONS CHKD	BY	DATE
NOTE BOOK NO.			

FILE NAME = 223007.004 - DESIGN.DWG



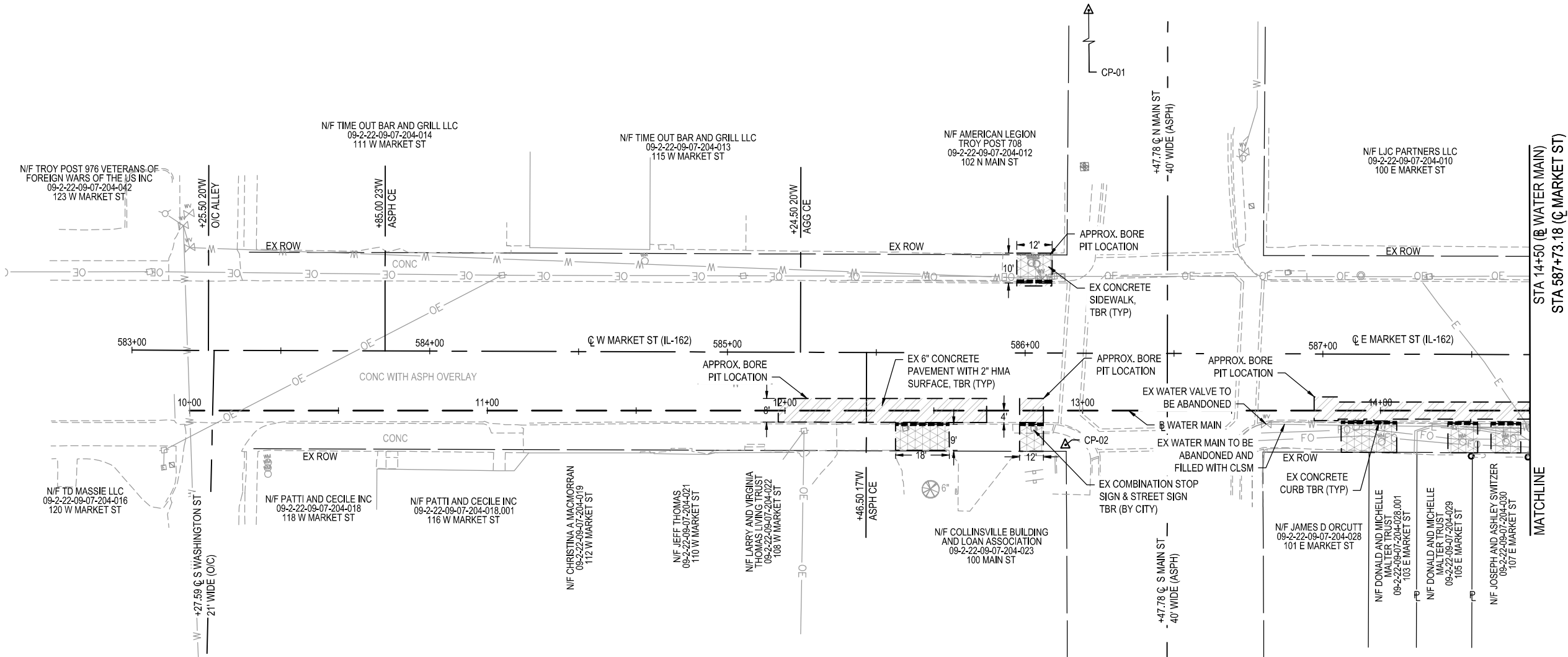
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ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

USER NAME =	DAYNE THORP	DESIGNED -	SJM	REVISED -	
		DRAWN -	DAT	REVISED -	
PLOT SCALE =	1" = 1'	CHECKED -	TLC	REVISED -	
PLOT DATE =	2024-02-08	DATE -	2024-02-08	REVISED -	

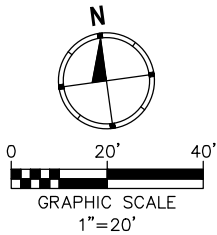


WATER MAIN - REMOVALS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MADISON	10	6
MARKET ST. WATER MAIN - PHASE 1				
CITY OF TROY		ILLINOIS	LOCAL	







CONTROL POINT TABLE				
PT #	NORTHING	EASTING	ELEV	DESCRIPTION
CP-01	751401.63	2377458.39	563.18	CUT X
CP-02	751073.25	2377406.59	563.24	CUT X



GENERAL NOTES

- ALL EX SIGNS THAT ARE REMOVED TO COMPLETE CONSTRUCTION OF PROPOSED WORK SHALL BE STORED AND REUSED WITH NEW TELESOPING STEEL SIGN SUPPORT.
- ABANDONED WATER MAIN PIPE LOCATED BELOW PAVEMENT SHALL BE FILLED WITH CLSM.
- ALL EX UTILITY POLES AND GUY WIRES ARE TO REMAIN. IT IS CONTRACTORS RESPONSIBILITY TO PROTECT OR HAVE BRACED AS NEEDED.

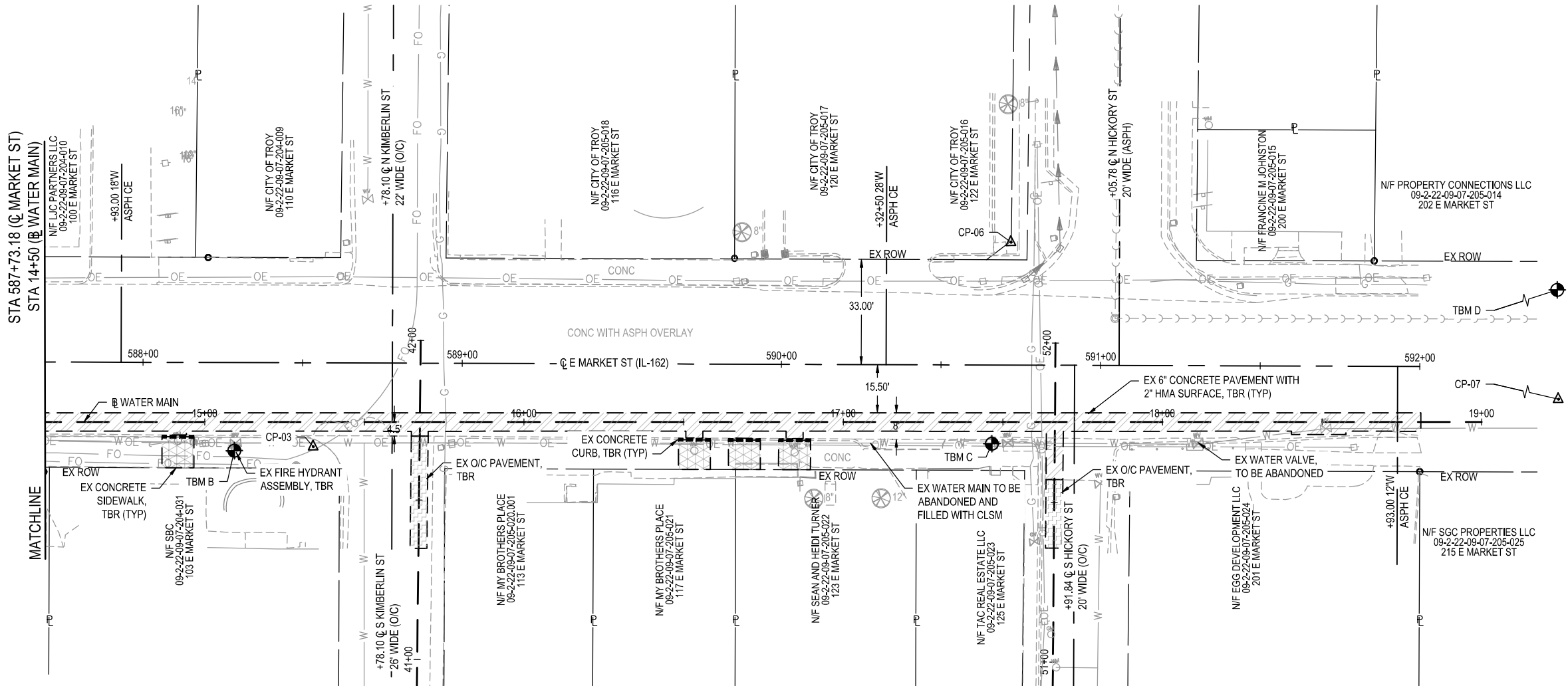
MATERIAL SYMBOLS

-  CONCRETE SIDEWALK REMOVAL
-  6" CONCRETE PAVEMENT WITH 2" HMA SURFACE REMOVAL (CLASS B PATCH)
-  O/C PAVEMENT REMOVAL (CLASS C PATCH)
-  CONCRETE CURB REMOVAL

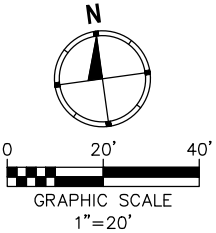
PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED CHECKED	
	DATE	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	DATE	
	STRUCTURE NOTATIONS CHKD	

FILE NAME = 223007.004 - DESIGN.DWG



BENCHMARK POINT TABLE				CONTROL POINT TABLE			
PT #	STATION	OFFSET	ELEV	DESCRIPTION	PT #	NORTHING	EASTING
TBM B	STA 588+32.42	27.62 RT	559.80	CHISELED "H" IN F. HYDRANT	CP-03	751044.34	2377644.61
TBM C	STA 590+69.76	24.69 RT	554.73	RR SPIKE IN PP	CP-06	751078.05	2377869.90
TBM D	STA 593+00.65	26.00 LT	552.20	RR SPIKE IN PP	CP-07	750968.72	2378120.30



GENERAL NOTES

- ALL EX SIGNS THAT ARE REMOVED TO COMPLETE CONSTRUCTION OF PROPOSED WORK SHALL BE STORED AND REUSED WITH NEW TELESOPING STEEL SIGN SUPPORT.
- ABANDONED WATER MAIN PIPE LOCATED BELOW PAVEMENT SHALL BE FILLED WITH CLSM.
- ALL EX UTILITY POLES AND GUY WIRES ARE TO REMAIN. IT IS CONTRACTORS RESPONSIBILITY TO PROTECT OR HAVE BRACED AS NEEDED.

MATERIAL SYMBOLS

	CONCRETE SIDEWALK REMOVAL
	6" CONCRETE PAVEMENT WITH 2" HMA SURFACE REMOVAL (CLASS B PATCH)
	O/C PAVEMENT REMOVAL (CLASS C PATCH)
	CONCRETE CURB REMOVAL



USER NAME =	DAYNE THORP	DESIGNED -	SJM	REVISED -	
PLOT SCALE =	1" = 1'	DRAWN -	DAT	REVISED -	
PLOT DATE =	2024-02-08	CHECKED -	TLC	REVISED -	
		DATE -	2024-02-08	REVISED -	



WATER MAIN - REMOVALS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MADISON	10	7
MARKET ST. WATER MAIN - PHASE 1				
CITY OF TROY	ILLINOIS			LOCAL

PROFILE		DATE
SURVEYED _____		BY _____
PLOTTED _____		
GRADES CHECKED _____		
B.M. NOTED _____		
STRUCTURE NOTATIONS CHK'D _____		
NO. _____		

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" 8TH EDITION, THESE PLANS, THE SPECIAL PROVISIONS, THE CONDITIONS OF THE I.E.P.A. PERMIT, AND THE REQUIREMENTS OF THE CITY OF TROY.
2. ALL WATER MAIN SHALL COMPLY WITH THE SPECIFICATIONS AS OUTLINED IN SECTION 40 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" 8TH EDITION OR MOST CURRENT.
3. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PLANS WITH THE ACTUAL DIMENSIONS AND CONDITIONS OF THE SITE. THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINES AND GRADES. IF A DISCREPANCY OCCURS FROM WHAT IS SHOWN ON THE PLANS, STANDARD SPECIFICATIONS, AND/OR DETAILS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE AFFECTED WORK. FAILING TO DO SO WILL BE CONSIDERED AS THE CONTRACTOR HAVING PROCEEDED AT HIS OWN RISK AND EXPENSE.
4. ALL WATER MAIN AND WATER SERVICE WORK SHALL BE COORDINATED WITH THE PUBLIC WORKS DIRECTOR OF THE CITY OF TROY.
5. ALL WATER MAIN FITTINGS AND VALVES TO BE SECURED BY USE OF RESTRAINT JOINT GLANDS, EBBA, MODEL 2000 OR EQUAL.
6. ALL HYDRANTS SHALL BE 5-1/4" BARREL, 3-WAY MUELLER CENTURION MODEL A-423 OR CLOW MEDALLION MODEL F-2545. A HYDRANT ASSEMBLY SHALL CONSIST OF A 6" RESILIENT WEDGE GATE VALVE ANCHORED TO THE HYDRANT BY USE OF AN ANCHORING COUPLING OR RESTRAINT JOINT GLANDS IN ACCORDANCE WITH AWWA AND IEPA GUIDELINES. USE OF RODS IS PROHIBITED. ASSEMBLY SHALL INCLUDE VALVE BOX.
7. ALL HYDRANTS TO BE INSTALLED/ADJUSTED STRAIGHT (PLUMB) AND AT THE PROPER FINISHED GRADE PER MANUFACTURER'S SPECIFICATIONS.
8. ALL VALVES SHALL BE LEFT OPEN, RESILIENT WEDGE GATE VALVES WITH INTEGRAL STAINLESS STEEL NUTS AND BOLTS (BONNET AND PACKING BOLTS).
9. ALL TAPPING SLEEVES SHALL BE STAINLESS STEEL SLEEVES WITH DUCTILE IRON FLANGES, ROMAC INDUSTRIES MODEL SST OR EQUAL. FLANGE BOLTS AND NUTS TO BE 316 STAINLESS STEEL.
10. ALL WATER MAIN FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT AWWA C153 COMPACT DUCTILE IRON.
11. TRACER WIRE TO BE COPPERHEAD #12 CCS HIGH STRENGTH, SOFT DRAWN 380# OR EQUAL, SHALL BE INSTALLED FIXED TO THE TOP OF ALL MAINS AND SERVICES AND CONNECTED TO HYDRANTS AND VALVES. WIRE TO BE PLACED OUTSIDE OF VALVE BOX AND THREADED THRU A PENETRATION AT 8" BELOW TOP OF BOX. ALL SPLICES SHALL BE SOLDERED AND MADE WATERTIGHT BY USE OF SILICONE FILLED WIRE NUTS.
12. ALL THRUST BLOCKS SHALL BE POURED CONCRETE AS SPECIFIED IN THE WATER MAIN DETAILS.
13. DETAILED "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE CITY UPON COMPLETION OF THE PROJECT.
14. ALL EXISTING FIRE HYDRANTS, METER LIDS, AND FRAMES SHALL REMAIN THE PROPERTY OF THE CITY.
15. ALL WATER MAINS AND SERVICES SHALL BE INSTALLED BY A STATE OF ILLINOIS LICENSED PLUMBER.
16. CONTRACTOR SHALL NOTIFY THE TROY WATER DEPARTMENT 48 HOURS PRIOR TO STARTING WORK.
17. ALL WORK SHALL BE INSPECTED BY WATER DEPARTMENT STAFF PRIOR TO BACKFILLING.
18. ALL WATER METER LIDS AND VALVE BOXES SHALL BE ADJUSTED TO THE PROPER FINISHED GRADE.
19. CONTRACTOR SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE CITY OF TROY.



BEDDING, HAUNCHING, AND TRENCH BACKFILL FOR WATER MAIN SHALL BE CA-6 AGGREGATE CONFORMING TO THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION. COMPACT TO MAXIMUM DENSITY AND CONFORMING WITH ASTM 2321-89 CLASS 1B. INSTALL IN COMPACTED LIFTS NOT EXCEEDING 8 INCHES IN ACCORDANCE WITH METHOD 1.



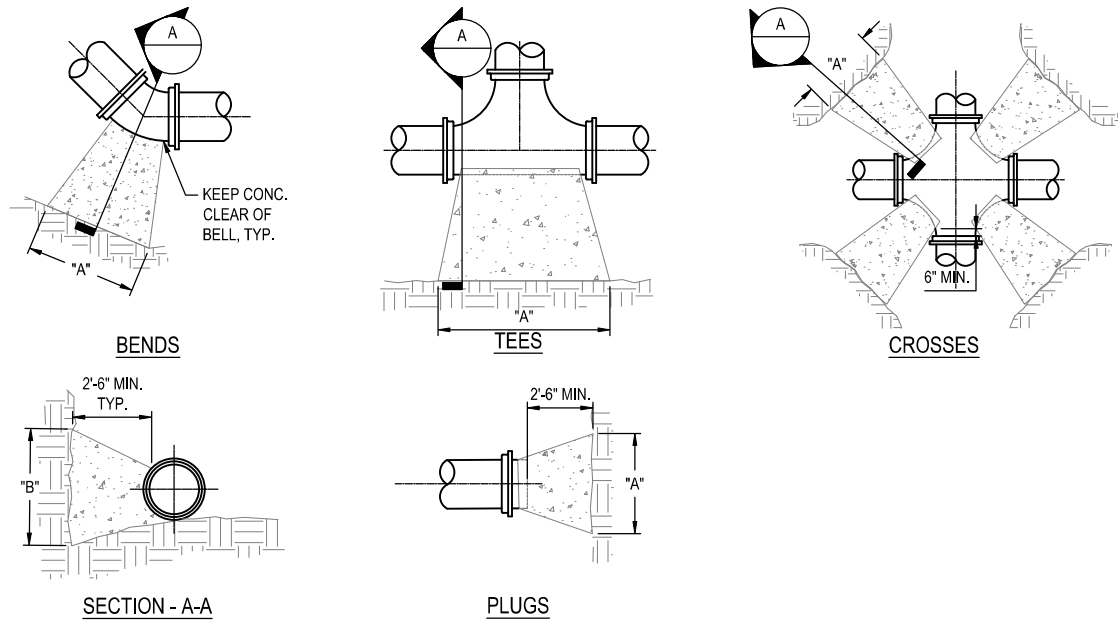
THRUST BLOCK SIZING TABLE & NOTES:

- THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
- NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
- THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
- BASED ON 200 PSI (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER) AND 1000 PSF SOIL BEARING.
- POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS.
- PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
- ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
- ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
- ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
- THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
- PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
- FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
- FOR MAIN SIZES GREATER THAN 16", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.

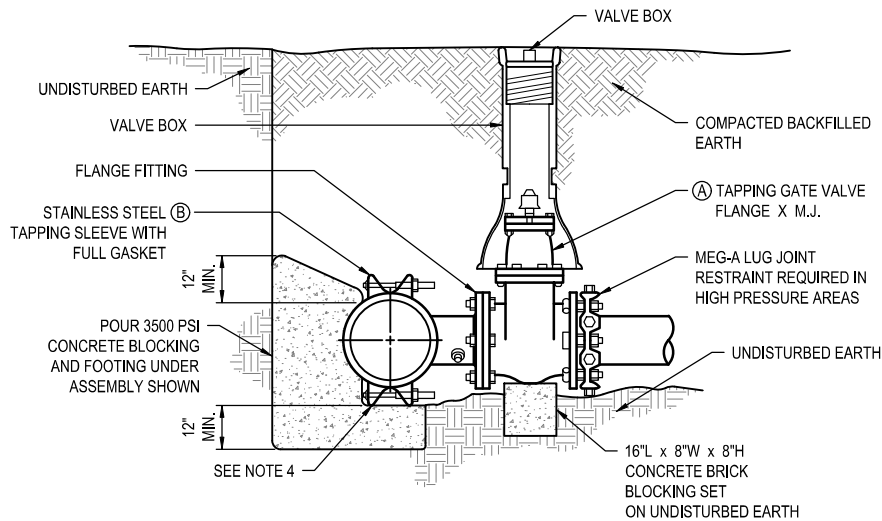
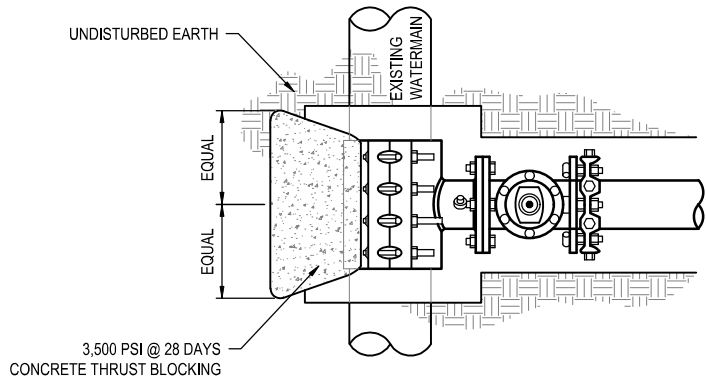
REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS

PIPE SIZE	90° BENDS			45° BENDS			22.50° BENDS			11.25° BENDS			TEES/PLUGS		
	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)
6"	12.0	48	36	6.5	39	24	3.3	27	18	1.7	20	12	8.5	41	30
8"	21.3	64	48	11.5	56	30	5.9	36	24	3.0	24	18	15.1	61	36
10"	33.3	89	54	18.0	73	36	9.2	45	30	4.6	28	24	23.6	81	42
12"	48.0	116	60	26.0	89	42	13.2	53	36	6.6	32	30	33.9	91	54
14"	65.3	112	84	35.3	85	60	18.0	62	42	9.0	37	36	46.2	101	66
16"	85.3	128	96	46.1	101	66	23.5	71	48	11.8	48	36	60.3	121	72

- AREA IN SQUARE FEET. "A" & "B" IN INCHES
- BEARING TABLE AREA BASED ON 200 PSI MINIMUM WITH SOIL BEARING CAPACITY OF 1000 LBS/SQUARE FOOT
- FOR HIGHER WATER PRESSURES OR LOWER SOIL PRESSURES, CONSULT ENGINEER FOR ADJUSTMENTS
- BEARING TABLE AREA INCLUDES FACTOR OF SAFETY OF 1.50
- ADDITIONAL FACTOR OF SAFETY AND BEARING AREA MAY BE REQUIRED AS DIRECTED BY THE ENGINEER



1 THRUST BLOCK DETAILS
SCALE: NO SCALE



REF	PART	DESCRIPTION
A	TAPPING GATE VALVE	MUELLER T-2380, OR CLOW RESILIENT WEDGE TAPPING VALVE WITH FLANGED/M.J. APPURTENANT END FITTING OR EQUIVALENT. VALVE SHALL BE RATED AT 250 PSI.
B	TAPPING SLEEVE (STAINLESS STEEL)	TAPPING SLEEVE SHALL BE TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE, ROMAC MODEL SST III, FORD MODEL FTSS WITH CARBON STEEL FLANGE, OR APPROVED EQUIVALENT. SLEEVE SHALL BE RATED AT 250 PSI AND SHALL BE FITTED WITH A TEST PLUG.

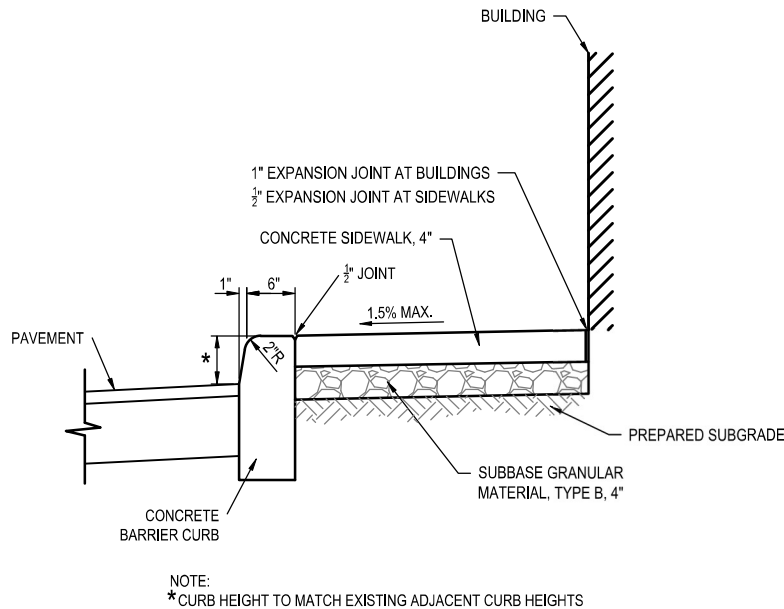
GENERAL NOTES

- TAPPING SLEEVE AND VALVE SHALL BE FULL PORT TO ACCEPT FULL SIZE SHELL CUTTER.
- STEEL FLANGE SHALL MEET AWWA C207.
- CONCRETE BLOCKING FORMED TO ENSURE ACCESSIBILITY TO FITTINGS AND POURED AGAINST UNDISTURBED EARTH.
- FITTINGS ARE TO BE COMPLETELY WRAPPED WITH PLASTIC, PRIOR TO POURING CONCRETE.
- CONCRETE TO BE MINIMUM 3,500 PSI @ 28 DAYS.

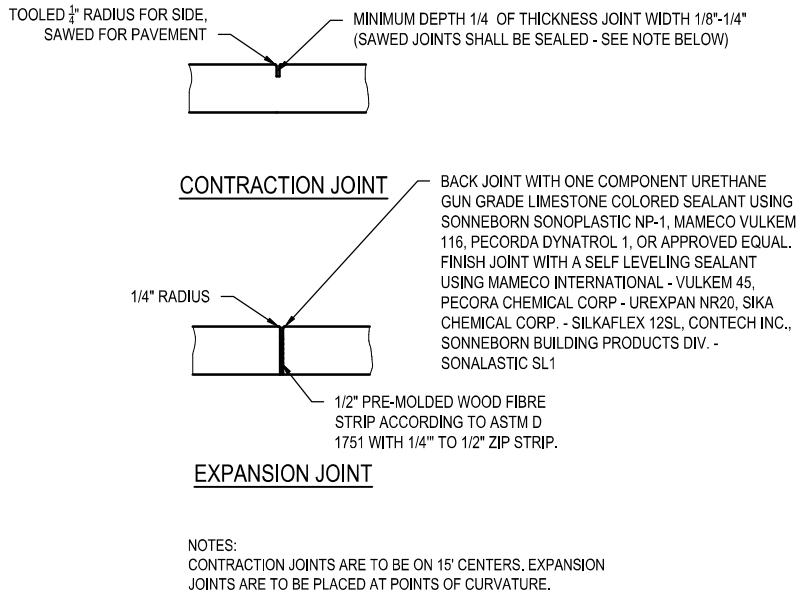
2 HOT TAPPING SLEEVE AND TAPPING VALVE DETAIL
SCALE: NO SCALE

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNED CHECKED		
	GRADE CHECKED		
	STRUCTURE NOTATION CHKD		

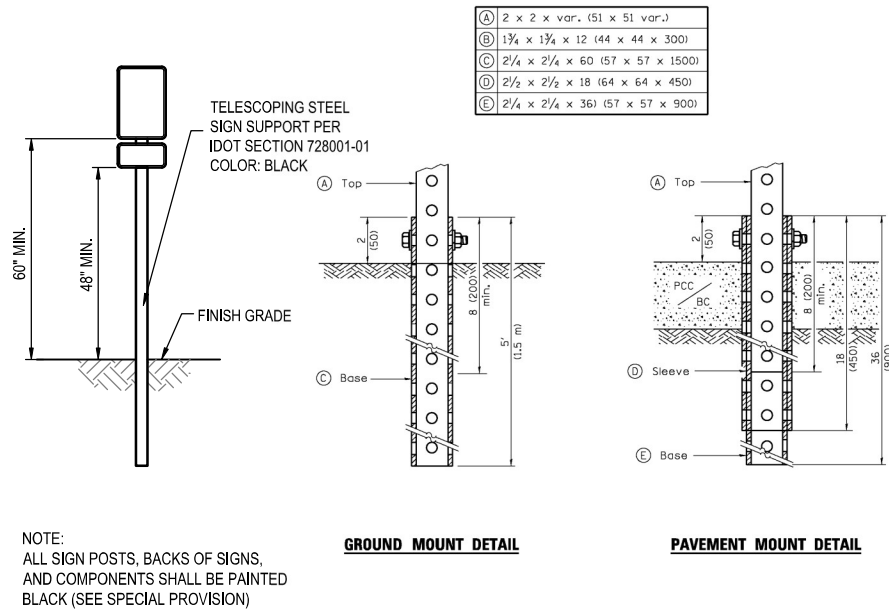
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNED CHECKED		
	GRADE CHECKED		
	STRUCTURE NOTATION CHKD		



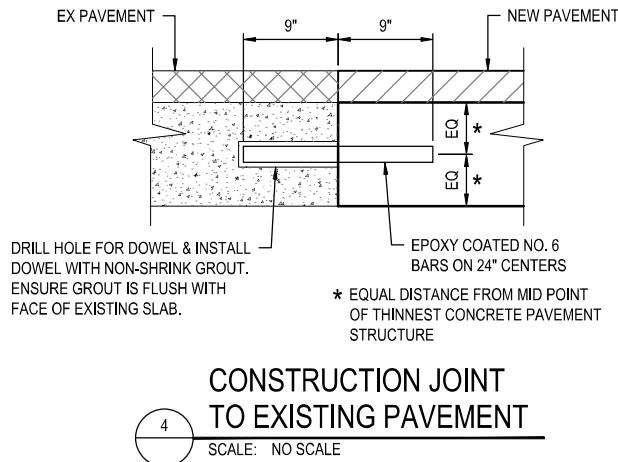
1 CONCRETE CURB AND SIDEWALK DETAIL
SCALE: NO SCALE



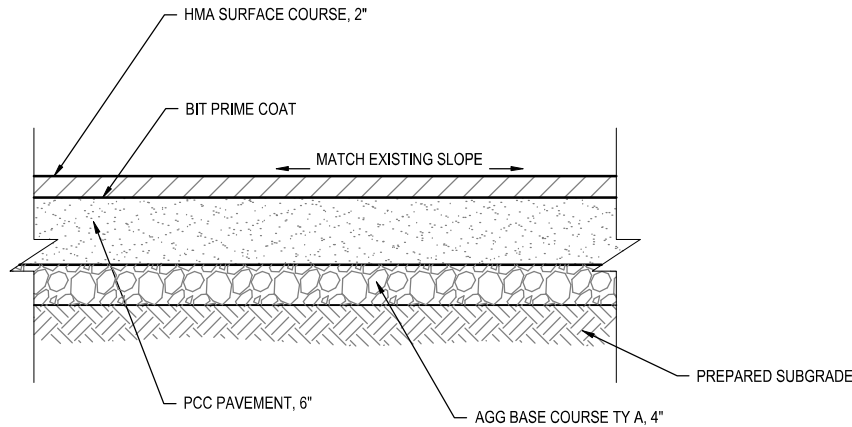
2 TYPICAL CONCRETE JOINT DETAILS
SCALE: NO SCALE



3 TELESCOPING STEEL SIGN DETAIL
SCALE: NO SCALE



4 CONSTRUCTION JOINT TO EXISTING PAVEMENT
SCALE: NO SCALE



5 NEW 6" CONCRETE PAVEMENT WITH 2" HMA SURFACE COURSE
SCALE: NO SCALE

HMA MIXTURE REQUIREMENTS TABLE	
LOCATION:	ALL WATER MAIN PAVEMENT PATCH SURFACING
MIXTURE USE:	INCIDENTAL SURFACING
THICKNESS:	2"
AC/PG:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes = 70
MIX COMPOSITION:	IL-9.5
FRICTION AGG:	MIXTURE "C"
MATERIAL TRANSFER DEVICE (REQUIRED?):	NO

FILE NAME = 223007.004 - DETAILS.DWG