

\$3,823,814.98
ORIGINAL

BID OF CAPITOL UNDERGROUND, INC.

2023

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023

CONTRACT NO. 8715

MUNIS NO. 14082

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON MARCH 21, 2023

CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713

<https://bidexpress.com/login>

**LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023
CONTRACT NO. 8715**

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Reference Material Available in Bid Express:
Soil Borings

This Proposal, and Agreement have
been prepared by:

**CITY ENGINEERING DIVISION
CITY OF MADISON
MADISON, DANE COUNTY, WISCONSIN**

Chris Potykowski For: _____
James M. Wolfe, P.E., City Engineer

JMW: ac

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023
CONTRACT NO.:	8715
SBE GOAL	9%
BID BOND	5%
SBE PRE BID MEETING	See Pre Bid Meeting info below
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	FEBRUARY 16, 2023
BID SUBMISSION (2:00 P.M.)	FEBRUARY 23, 2023
BID OPEN (2:30 P.M.)	FEBRUARY 23, 2023
PUBLISHED IN WSJ	FEB. 9 & 16, 2023

SBE PRE BID MEETING: Small Business Enterprise Pre-Bid Meetings are not being held in person at this time. Contractors can schedule one-on-one phone calls with Tracy Lomax in Affirmative Action to count towards good faith efforts. Tracy can be reached at (608) 267-8634 or by email, tlomax@cityofmadison.com.

PREQUALIFICATION APPLICATION: Forms are available on our website, www.cityofmadison.com/engineering/developers-contractors/contractors/how-to-get-prequalified. If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED: by hand to 1600 EMIL ST., MADISON, WI 53713 or online at www.bidexpress.com.

Bids may be submitted on line through Bid Express or in person at 1600 Emil St. The bids will be posted on line after the bid opening. If you have any questions, please call Alane Boutelle at (608) 267-1197, or John Fahrney at (608) 266-9091.

STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2023 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, www.cityofmadison.com/engineering/developers-contractors/standard-specifications.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a)l. of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express (www.bidexpress.com). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond (City of Madison form) equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

MINOR DISCREPENCIES

Bidder is responsible for submitting all forms necessary for the City to determine compliance with State and City bidding requirements. Notwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion or performance of the contract.

Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an

Building Demolition

- 101 Asbestos Removal
- 120 House Mover

- 110 Building Demolition

Street, Utility and Site Construction

- 201 Asphalt Paving
- 205 Blasting
- 210 Boring/Pipe Jacking
- 215 Concrete Paving
- 220 Con. Sidewalk/Curb & Gutter/Misc. Flat Work
- 221 Concrete Bases and Other Concrete Work
- 222 Concrete Removal
- 225 Dredging
- 230 Fencing
- 235 Fiber Optic Cable/Conduit Installation
- 240 Grading and Earthwork
- 241 Horizontal Saw Cutting of Sidewalk
- 242 Hydro Excavating
- 243 Infrared Seamless Patching
- 245 Landscaping, Maintenance
- 246 Ecological Restoration
- 250 Landscaping, Site and Street
- 251 Parking Ramp Maintenance
- 252 Pavement Marking
- 255 Pavement Sealcoating and Crack Sealing
- 260 Petroleum Above/Below Ground Storage Tank Removal/Installation
- 262 Playground Installer

- 265 Retaining Walls, Precast Modular Units
- 270 Retaining Walls, Reinforced Concrete
- 275 Sanitary, Storm Sewer and Water Main Construction
- 276 Sawcutting
- 280 Sewer Lateral Drain Cleaning/Internal TV Insp.
- 285 Sewer Lining
- 290 Sewer Pipe Bursting
- 295 Soil Borings
- 300 Soil Nailing
- 305 Storm & Sanitary Sewer Laterals & Water Svc.
- 310 Street Construction
- 315 Street Lighting
- 318 Tennis Court Resurfacing
- 320 Traffic Signals
- 325 Traffic Signing & Marking
- 332 Tree pruning/removal
- 333 Tree, pesticide treatment of
- 335 Trucking
- 340 Utility Transmission Lines including Natural Gas, Electrical & Communications
- 399 Other _____

Bridge Construction

- 501 Bridge Construction and/or Repair

Building Construction

- 401 Floor Covering (including carpet, ceramic tile installation, rubber, VCT)
- 402 Building Automation Systems
- 403 Concrete
- 404 Doors and Windows
- 405 Electrical - Power, Lighting & Communications
- 410 Elevator - Lifts
- 412 Fire Suppression
- 413 Furnishings - Furniture and Window Treatments
- 415 General Building Construction, Equal or Less than \$250,000
- 420 General Building Construction, \$250,000 to \$1,500,000
- 425 General Building Construction, Over \$1,500,000
- 428 Glass and/or Glazing
- 429 Hazardous Material Removal
- 430 Heating, Ventilating and Air Conditioning (HVAC)
- 433 Insulation - Thermal
- 435 Masonry/Tuck pointing

- 437 Metals
- 440 Painting and Wallcovering
- 445 Plumbing
- 450 Pump Repair
- 455 Pump Systems
- 460 Roofing and Moisture Protection
- 464 Tower Crane Operator
- 461 Solar Photovoltaic/Hot Water Systems
- 465 Soil/Groundwater Remediation
- 466 Warning Sirens
- 470 Water Supply Elevated Tanks
- 475 Water Supply Wells
- 480 Wood, Plastics & Composites - Structural & Architectural
- 499 Other _____

State of Wisconsin Certifications

- 1 Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
- 2 Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
- 3 Class 7 Blaster - Blasting Operations and Activities for structures greater than 15' in height, bridges, towers, and any of the objects or purposes listed as "Class 5 Blaster or Class 6 Blaster".
- 4 Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
- 5 Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application: www.dhs.wisconsin.gov/Asbestos/Cert. State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
- 6 Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture
- 7 Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP)
- 8 State of Wisconsin Master Plumbers License.

SECTION B: PROPOSAL

Please refer to the
Bid Express Website
at <https://bidexpress.com>
look up contract number
and go to
Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at www.bidexpress.com

Click on the "Register for Free" button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a 'per bid' basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the 'Digital ID' process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

SECTION C: SMALL BUSINESS ENTERPRISE

Instructions to Bidders City of Madison SBE Program Information

2 Small Business Enterprise (SBE) Program Information

2.1 Policy and Goal

The City of Madison reaffirms its policy of nondiscrimination in the conduct of City business by maintaining a procurement process which remains open to all who have the potential and ability to sell goods and services to the City. It is the policy of the City of Madison to allow Small Business Enterprises (SBE) maximum feasible opportunity to participate in City of Madison contracting. The bidder acknowledges that its bid has been submitted in accordance with the SBE program and is for the public's protection and welfare.

Please refer to the "ADVERTISEMENT FOR BIDS" for the goal for the utilization of SBEs on this project. SBEs may participate as subcontractors, vendors and/or suppliers, which provide a commercially useful function. The dollar value for SBE suppliers or 'materials only' vendors shall be discounted to 60% for purposes of meeting SBE goals.

A bidder which achieves or exceeds the SBE goal will be in compliance with the SBE requirements of this project. In the event that the bidder is unable to achieve the SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Failure to either achieve the goal or demonstrate a good faith effort to do so will be grounds for the bidder being deemed a non-responsible contractor ineligible for award of this contract.

A bidder may count towards its attainment of the SBE goal only those expenditures to SBEs that perform a commercially useful function. For purposes of evaluating a bidder's responsiveness to the attainment of the SBE goal, the contract participation by an SBE is based on the percentage of the total base bid proposed by the Contractor. The total base bid price is inclusive of all addenda.

Work performed by an SBE firm in a particular transaction can be counted toward the goal only if it involves a commercially useful function. That is, in light of industry practices and other relevant considerations, does the SBE firm have a necessary and useful role in the transaction, of a kind for which there is a market outside the context of the SBE Program, or is the firm's role a superfluous step added in an attempt to obtain credit towards goals? If, in the judgment of the Affirmative Action Division, the SBE firm will not perform a commercially useful function in the transaction, no credit towards goals will be awarded.

The question of whether a firm is performing a commercially useful function is completely separate from the question of whether the firm is an eligible SBE. A firm is eligible if it meets the definitional criteria and ownership and control requirements, as set forth in the City of Madison's SBE Program.

If the City of Madison determines that the SBE firm is performing a commercially useful function, then the City of Madison must then decide what that function is. If the commercially useful function is that of an SBE vendor / supplier that regularly transacts business with the respective product, then the City of Madison will count 60% of the value of the product supplied toward SBE goals.

To be counted, the SBE vendor / supplier must be engaged in selling the product in question to the public. This is important in distinguishing an SBE vendor / supplier, which has a regular trade with a variety of customers, from a firm which performs supplier-like functions on an ad hoc basis or for only one or two contractors with whom it has a special relationship.

A supplier of bulk goods may qualify as an eligible SBE vendor / supplier if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment; e.g., a fleet of trucks, the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party; e.g., a prime contractor, or leases such a party's trucks on an ad hoc basis for a specific job.

If the commercially useful function being performed is not that of a qualified SBE vendor / supplier, but rather that of delivery of products, obtaining bonding or insurance, procurement of personnel, acting as a broker or manufacturer's representative in the procurement of supplies, facilities, or materials, etc., only the fees or commissions will apply towards the goal.

For example, a business that simply transfers title of a product from manufacturer to ultimate purchaser; e. g., a sales representative who re-invoices a steel product from the steel company to the Contractor, or a firm that puts a product into a container for delivery would not be considered a qualified SBE vendor / supplier. The Contractor would not receive credit based on a percentage of the cost of the product for working with such firms.

Concerning the use of services that help the Contractor obtain needed supplies, personnel, materials or equipment to perform a contract: only the fee received by the service provider will be counted toward the goal. For example, use of a SBE sales representative or distributor for a steel company, if performing a commercially useful function at all, would entitle the Contractor receiving the steel to count only the fee paid to the representative or distributor toward the goal. This provision would also govern fees for professional and other services obtained expressly and solely to perform work relating to a specific contract.

Concerning transportation or delivery services: if an SBE trucking company picks up a product from a manufacturer or a qualified vendor / supplier and delivers the product to the Contractor, the commercially useful function it is performing is not that of a supplier, but simply that of a transporter of goods. Unless the trucking company is itself the manufacturer or a qualified vendor / supplier in the product, credit cannot be given based on a percentage of the cost of the product. Rather, credit would be allowed for the cost of the transportation service.

The City is aware that the rule's language does not explicitly mention every kind of business that may contribute work on this project. In administering these programs, the City would, on a case-by-case basis, determine the appropriate counting formula to apply in a particular situation.

2.2 Contract Compliance

Questions concerning the SBE Program shall be directed to the Contract Compliance Officer of the City of Madison Department of Civil Rights, Affirmative Action Division, 210 Martin Luther King, Jr. Blvd., Room 523, Madison, WI 53703; telephone (608) 266-4910.

2.3 Certification of SBE by City of Madison

The Affirmative Action Division maintains a directory of SBEs which are currently certified as such by the City of Madison. Contact the Contract Compliance Officer as indicated in Section 2.2 to receive a copy of the SBE Directory or you may access the SBE Directory online at www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise.

All contractors, subcontractors, vendors and suppliers seeking SBE status must complete and submit the **Targeted Business Certification Application** to the City of Madison Affirmative Action Division by the time and date established for receipt of bids. A copy of the Targeted Business Certification Application is available by contacting the Contract Compliance Officer at the address and telephone indicated in Section 2.2 or you may access the Targeted Business Certification Application online at www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise. Submittal of the Targeted Business Certification Application by the time specified does not guarantee that the applicant will be certified as a SBE eligible to be utilized towards meeting the SBE goal for this project.

2.4 Small Business Enterprise Compliance Report

2.4.1 Good Faith Efforts

Bidders shall take all necessary affirmative steps to assure that SBEs are utilized when possible and that the established SBE goal for this project is achieved. A contractor who self performs a portion of the work, and is pre-qualified to perform that category of work, may subcontract that portion of the work, but shall not be required to do so. When a bidder is unable to achieve the established SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Such a good faith effort should include the following:

- 2.4.1.1 Attendance at the pre-bid meeting.
- 2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.
- 2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.
- 2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.
- 2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.
- 2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.
- 2.4.1.7 Providing SBEs with specific information regarding the work to be performed.
- 2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.
- 2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.
- 2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.
- 2.4.1.11 Completion of Cover Page (page C-6), Summary Sheet (page C-7) and SBE Contact Reports (pages C-8 and C9) if applicable.

2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the bidder with the bid: This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below may be deemed non-responsible and the bidder ineligible for award of this contract. Notwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion, performance of the contract, or percentage of SBE utilization.

2.4.2.1 If the Bidder meets or exceeds the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.1.1 **Cover Page**, Page C-6; and

2.4.2.1.2 **Summary Sheet**, C-7.

2.4.2.2 If the bidder does not meet the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.2.1 **Cover Page**, Page C-6;

2.4.2.2.2 **Summary Sheet**, C-7; and

2.4.2.2.3 **SBE Contact Report**, C-8 and C-9. (A separate Contact Report must be completed for each applicable SBE which is not utilized.)

2.5 Appeal Procedure

A bidder which does not achieve the established goal and is found non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may appeal that decision to the Small Business Enterprises Appeals Committee. All appeals shall be made in writing, and shall be delivered to and received by the City Engineer no later than 4:30 PM on the third business day following the bidder's receipt of the written notification of ineligibility by the Affirmative Action Division Manager. Postmark not acceptable. The notice of appeal shall state the basis for the appeal of the decision of the Affirmative Action Division Manager. The Appeal shall take place in accordance with Madison General Ordinance 33.54.

2.6 SBE Requirements After Award of the Contract

The successful bidder shall identify SBE subcontractors, suppliers and vendors on the subcontractor list in accordance with the specifications. The Contractor shall submit a detailed explanation of any variances between the listing of SBE subcontractors, vendors and/or suppliers on the subcontractor list and the Contractor's SBE Compliance Report for SBE participation.

No change in SBE subcontractors, vendors and/or suppliers from those SBEs indicated in the SBE Compliance Report will be allowed without prior approval from the Engineer and the Affirmative Action Division. The contractor shall submit in writing to the City of Madison Affirmative Action Division a request to change any SBE citing specific reasons which necessitate such a change. The Affirmative Action Division will use a general test of reasonableness in approving or rejecting the contractor's request for change. If the request is approved, the Contractor will make every effort to utilize another SBE if available.

The City will monitor the project to ensure that the actual percentage commitment to SBE firms is carried out.

2.7 SBE Definition and Eligibility Guidelines

A Small Business Enterprise is a business concern awarded certification by the City of Madison. For the purposes of this program a Small Business Enterprise is defined as:

- A. An independent business operated under a single management. The business may not be a subsidiary of any other business and the stock or ownership may not be held by any individual or any business operating in the same or a similar field. In determining whether an entity qualifies as a SBE, the City shall consider all factors relevant to being an independent business including, but not limited to, the date the business was established, adequacy of its resources for the work in which it proposes to involve itself, the degree to which financial, equipment leasing and other relationships exist with other ineligible firms in the same or similar lines of work. SBE owner(s) shall enjoy the customary incidents of ownership and shall share in the risks and profits commensurate with their enjoyment interests, as demonstrated by an examination of the substance rather than form or arrangements that may be reflected in its ownership documents.
- B. A business that has averaged no more than \$4.0 million in annual gross receipts over the prior three year period and the principal owner(s) do not have a personal net worth in excess of \$1.32 million.

Firm and/or individuals that submit fraudulent documents/testimony may be barred from doing business with the City and/or forfeit existing contracts.

SBE certification is valid for one (1) year unless revoked.

SECTION D: SPECIAL PROVISIONS

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023 CONTRACT NO. 8715

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

SECTION 102.11: BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$74,000 for a single trade contract; or equal to or greater than \$360,500 for a multi-trade contract pursuant to MGO 33.07(7).

ARTICLE 104 SCOPE OF WORK

This project generally consists of replacement and installation of new storm sewer pipes and structures, installation of concrete sidewalk and curb and gutter, replacement of asphalt pavement, and replacement of driveway aprons.

The Contractor shall view the site prior to bidding to become familiar with the existing conditions. It will be the responsibility of the Contractor to work with the utilities located in the right of way to resolve conflicts during the construction process.

SECTION 105.12 COOPERATION BY THE CONTRACTOR

Coordination with Archaeologist

The Contractor shall coordinate with the City's archaeological consultant to have archaeological monitoring in place prior to any ground disturbance activities within the boundaries of archaeological sites. The approximate locations of these sites on Lake Mendota Drive as follows; from approximately Spring Harbor Dr to Spring Ct; from approximately the Risser Rd intersection to the Merrill Springs Rd intersection; and approximately the last 350 feet of the project at the eastern limits. If soils located underneath the paved surfaces are found to be undisturbed, archaeological monitoring should be continued during planned construction activities within these areas. There is a chance of finding human remains or archaeological materials during this project. If any human remains or archaeological materials are found or unusual soils encountered during the project, all ground disturbing construction activities must cease. The contractor shall consult with John Hodgson of Phase One Archaeology prior to continuing work. The contractor shall contact the City's archeological consultant, John Hodgson (608-334-1828 or phaseonearchaeology@gmail.com) **a minimum of 2 weeks prior to any excavation activities in this area** to coordinate schedule and any monitoring activities. Failure to provide adequate notice may result in delays as work may not proceed in designated areas until the Archaeologist is consulted. Delays resulting from inadequate notification will be considered as caused by the Contractor and no time extensions will be provided and any liquidated damages will be enforced, per the Standard Specifications and these special provisions.

The Contractor shall use care around all existing trees, planter walls, plantings, fences, walls, railings, buildings, utilities, street lights, traffic signals, and any other items that are to remain. A number of properties have significant landscaping, trees or other improvements immediately adjacent to the project area. Any items not specifically called out for removal are to remain. Damage to these items during construction, including any concrete residue, shall be repaired, remedied, or replaced at the Contractor's expense. No trees shall be cut without the approval of the Engineer and the City Forester; the abutting

property owners shall be notified in accordance with the City's Administrative Procedure Memorandum No. 6-2.

A number of properties have extensive landscaping adjacent to the roadway. It is expected that the contractor will limit disturbance, including material storage, to the slope intercept limits noted on the plans. Disturbance beyond those limits may only proceed if directed/approved by the Engineer.

The contractor shall coordinate with all necessary utilities to have utility structures (manholes, handholes, valves, etc) adjusted as necessary. The contractor shall provide a minimum of 7 days notice to utilities prior to needing the structure adjustment. The Contractor shall also provide space for utility companies to work in order to resolve conflicts in the field.

Coordination with MG&E

MG&E will need to relocate a number of poles within the project area. These poles include both electrical and telecom attachments. It is anticipated that the pole relocations will take place in coordination with this project, and the Contractor shall provide space and access for MG&E, and any other utilities with pole attachments to transfer, to complete their work, along with sufficient notification of any conflicts. The Contractor may need to temporarily gap sidewalk installations as necessary to facilitate the pole relocations. The Contractor can coordinate MG&E Electrical work with Tony Sanfratello of MG&E at asanfratello@mge.com.

MG&E will also replace the gas mains and services within the project limits. It is anticipated that new gas mains will be installed on both sides of Lake Mendota Dr. to limit the number of long side services. MG&E expects to begin work on the gas main installation sometime in Spring 2023. MG&E's gas main replacement is anticipated to overlap with the City project. The Contractor shall allocate time and space for MG&E to do their work. The Contractor shall coordinate with MG&E gas crews and shall help provide direction on areas of the project to prioritize. The Contractor can coordinate MG&E gas work with Katie Bloomer of MG&E at 608-252-7287 or kbloomer@mge.com.

Coordination with AT&T

AT&T has recently installed underground facilities in various locations within the project limits. A rough approximation of these facilities is shown in the basemap linework with the label PROP FO (2023). The Contractor shall coordinate any potential conflicts with David Lewandowski of AT&T at (414) 514-6764 or dl2192@att.com.

Coordination with Water Utility Lining Project

Madison Water Utility will continue their water main lining project along Lake Mendota Drive between STA 13+75 to Epworth Court to the West. The majority of this lining project is outside the limits of this project. The Contractor shall coordinate with the Water Utility and give proper time and space for them to perform their lining project. The Contractor shall coordinate with Tim Pearson of Madison Water Utility at (608) 206-3956 or tpearson@madisonwater.org.

SECTION 107.6 DUST PROOFING

The Contractor shall take all necessary steps to control dust arising from operations connected with this contract. When ordered by the Engineer, the Contractor shall dust proof the construction area by using power sweepers and water. Dust proofing shall be incidental with operations connected with this contract.

SECTION 107.7 MAINTENANCE OF TRAFFIC

Portable, Changeable Message Boards (PCMS) requirements:

2 PCMS for 7 days prior to street closure (one in each direction of travel).

ROAD
WORK
BEGINS

MONDAY
(date)

SPRG HBR (indicate limit)
TO
SUMAC (indicate limit)

Lake Mendota Drive may be closed to thru traffic for the duration of construction. Stagger Type III barricades at intersections to allow local access to driveways. Maintain emergency vehicle access at all times. Maintain access to residential driveways from at least one end of the street. Notify property owners of disruptions to their driveway access in accordance with the standard specifications. When indicated on the plans or as directed by the Engineer, Contractor shall maintain access at all times to specified addresses, which will be paid under the appropriate item.

Post LAKE MENDOTA DR CLOSED AHEAD signs at the intersections of University Ave/Spring Harbor Dr as well as at Eagle Heights Dr/Lake Mendota Dr.

Work shall be performed so that traffic will be maintained at the intersection of Lake Mendota Dr/Spring Harbor Dr until after school gets out for the summer on June 8th.

Do not close adjacent intersections simultaneously.

All signing and barricading shall conform to Part VI of the Federal Highways Administrations "Manual on Uniform Traffic Control Devices" (MUTCD), the State of Wisconsin Standard Facilities Development Manual (including Chapter 16 – Standard Detail Drawings) and the City of Madison Standards for sidewalk and bikeway closures.

Measure traffic control as a lump sum. Payment for traffic control is full compensation for constructing, assembling, hauling, erecting, re-erecting, maintaining, restoring, and removing non-permanent traffic signs, drums, barricades, and similar control devices, for providing, placing, and maintaining work zone. Maintaining shall include replacing damaged or stolen traffic control devices. Measure temporary pavement markings, electronic arrow boards and changeable message signs as separate bid items.

Install "Type A" low intensity flashing lights on all barricades used in the project per State of Wisconsin S.D.D. 15C2-4B.

Backfill, plate or protect work areas with traffic control devices during non-working hours. If steel plates are used, notify the City of Madison Streets Division, 266-4681, one working day prior to placement of the plates.

Remove on-street parking, as needed, by posting temporary "No Parking" signs. Contact John Villarreal, Parking Utility, (608) 267-8756, jvillarreal@cityofmadison.com seven days prior to needing temporary No Parking signs. Signs must be posted and verified by City Parking Enforcement at least 48 hours in advance of towing.

Do not remove existing street signs. Contact Jeremy Nash, jnash@cityofmadison.com, (608) 266-6585, for sign removals at least 48 hours prior to needing signs removed. There is no charge to the contractor for this service.

Maintain temporary No Parking signs until all permanent signing is in place by City Traffic Engineering. Once terrace work is complete, contact Jeremy Nash, Traffic Engineering Division, jnash@cityofmadison.com, (608) 266-6585, to install permanent signs. Allow at least seven days for permanent signs to be installed.

Contact Jeremy Nash, Traffic Engineering Division, jnash@cityofmadison.com, (608) 266-6585, with any questions concerning these traffic control specifications.

Maintain residential driveway access per standard specs at the following locations: 5122 Lake Mendota Dr.

SECTION 108.2 **PERMITS**

The following permits are required (and have been or will be applied for by the City) for this project:

- City of Madison Erosion Control and Stormwater Management Permit
- Wisconsin Department of Natural Resources Notice of Intent (Stormwater Permit)
- Sewer Extension Permit (for gravity sanitary sewer)

These permits cover trench dewatering to a maximum of 70 gallons/minute from the project, provided appropriate control measures are in place. The City's obtaining these permits is not intended to be exhaustive of all permits that may be required to be obtained by the Contractor for construction of this project. It shall be the responsibility of the Contractor to identify and obtain any other permits needed for construction. This includes type II dewatering, which may be needed to construct the proposed sewer utilities on this project.

It shall be the responsibility of the Contractor to obtain the permits listed below, if required, and to pay all applicable charges and fees associated with these permits.

- Wisconsin DNR Type II Dewatering
- MMSD Sewer Connection Permit

The Contractor will be responsible for acquiring Madison Metropolitan Sewerage District (MMSD) permits and paying for the permit fees for connection to MMSD MH05-001. The Contractor shall follow all MMSD permit requirements with this proposed work to their facilities. The permitting contact from MMSD for these connections is Curt Sauser (608)709-1830, curts@madsewer.org. MMSD confirmed that 1 permit (total) will be required for all of the proposed work to the MMSD facilities on the Lake Mendota project (\$1,600 total - 2023 rate). Permit and fees for this work is the responsibility of the Contractor

No work shall commence until all necessary permits are obtained. The Contractor shall be responsible for knowing, understanding, and meeting the conditions of all permits and shall keep a copy of each individual permit on site at all times throughout construction. Any questions pertaining to permit compliance shall be immediately brought to the attention of the Project or Construction Engineer.

The Contractor shall meet the conditions of the permits involving properly installing and maintaining the erosion control measures shown on the plans, specified in these Special Provisions, as directed by the Construction Engineer or his designees, or as directed by any official representative of the DNR. This work will be paid for under the appropriate bid items, or if appropriate items are not included in the contract, they shall be paid for as Extra Work.

The City's obtaining these permits is not intended to be exhaustive of all permits that may be required to be obtained by the Contractor for construction of this project. It shall be the responsibility of the Contractor to identify and obtain any other permits needed for construction

SECTION 109.2 **PROSECUTION OF WORK**

The Contractor may begin work as early as **May 8, 2023**. All work under this contract shall be completed by **September 15, 2023**. The Contractor shall notify the Engineer of their anticipated start date a minimum of 4 weeks prior to that date.

The Contractor shall not impact access to Spring Harbor Middle School while school is in session. The last day of the 2022-2023 school year is **June 8, 2023**. The Contractor shall not perform any work impacting the Lake Mendota Drive from the westerly project limits through the Minocqua Crescent intersection while Spring Harbor Middle School is in session. Students on Lake Mendota Drive may walk to Spring Harbor Middle School, the Contractor shall create a safe walking area for these students and others accessing the schools, using Construction Fencing as directed by the Construction Engineer. The Contractor shall coordinate with Matthew Ayala, the Building Custodian of Spring Harbor Middle School, at 608-204-1115 or mjayala@madison.k12.wi.us to coordinate any construction impacts while school is in session.

All work, except surface pavement, shall be completed on the portion of Lake Mendota Drive from the westerly project limits through the Minocqua Crescent intersection by **August 25, 2023** as to not impact the beginning of the 2023-2024 school year at Spring Harbor Middle School.

The Contractor shall maintain continued access to the Spring Harbor Boat Launch Parking Lot, including the commercial driveway opening, for the duration of the project, except for a total of 20 calendar days on weekdays only. The boat launch must remain open during all weekends throughout the duration of the project. The Contractor shall coordinate impacted access to the Spring Harbor Boat Launch Parking Lot, including which direction it is accessible from (via Spring Harbor Drive or Minocqua Cresc) with Corey Stelljes at (608) 266-6518 or cstelljes@cityofmadison.com

Due to existing burial sites within the project area, the use of Hydrovac is not permitted under any circumstances throughout the entire project limits. Any utility locates as part of this project will need to be dug.

Work shall begin only after the contract is fully signed and executed and the start work letter is received. If it is desirable to begin work before the above-mentioned date, the Contractor shall establish a mutually acceptable date with the City Engineer, and the agreed upon date must be determined prior to the preconstruction meeting. Depending on the status of contract routing, it may not be feasible to start prior to the date above.

SECTION 109.9 LIQUIDATED DAMAGES

The fixed, agreed, and liquidated damages due the City from the Contractor for failure to complete all work by the specified completion date for the entire contract shall be calculated per the standard specifications.

The fixed, agreed, and liquidated damages due the City from the Contractor for failure to complete all work by the interim completion date noted under Prosecution of Work shall be \$1,750 per calendar day.

BID ITEM 20101 – EXCAVATION CUT

This item includes removal of miscellaneous landscaping including shrubs and small planter walls. Several properties have large boulders in the terrace areas. The Contractor shall remove boulders as necessary and shall coordinate with the adjacent property owner to determine if they would like to keep the boulder(s) or have them removed. If they would like to keep the boulder the Contractor shall place the boulder at an agreeable location, outside the work area. Boulder removal, relocation, and coordination is included with this item.

As there are several areas of Archaeological significance along this project, excavation by hydrovac will not be allowed, as required by the City's permit for this project.

BID ITEM 20204 – SELECT FILL

This item includes material necessary for certain sections of sidewalk where the subgrade is above or partially above existing ground. Select fill shall be used as directed by the Construction Engineer.

BID ITEM 20326 – REMOVE FENCE

This item includes work necessary to carefully remove and salvage fence materials. The Contractor shall also coordinate with the adjacent property owner to place salvaged fence materials, if wanted by the property owner, at an agreeable location adjacent to, but outside of the work area. This item includes all fence types such as, but not limited to, chain link, wooden post & rail, picket, etc.

BID ITEM 20336 – PIPE PLUG

With regard to the City of Madison Standard Specifications for Public Works Construction 2023 Edition Article 203.2(c), any pipe found in a trench that is less than 10" in diameter while installing a sewer facility shall be considered incidental to the pipe being installed.

Any pipe plugs required to abandon or remove sewer access structure (pipes directly connected to the structure) shall be considered incidental to abandoning or removing the structure regardless of the size of the pipe being abandoned.

SECTION 210.1(d) STREET SWEEPING

When required, either by the erosion control plan or the Construction Engineer, the Contractor shall perform mechanical street sweeping on all streets or paved surfaces affected by construction equipment, hauling or related construction activities that result in mud tracking or siltation. Mechanical street sweeping shall be completed as directed by the Construction Engineer and shall remove all loose material to the satisfaction of the Construction Engineer. Depending on site conditions, construction activities, and hauling methods utilized by the Contractor mechanical street sweeping may be required multiple times throughout the day with an absolute minimum that all streets are clean at the end of the work day. Areas not accessible by mechanical street sweepers may require hand scraping with shovels.

BID ITEM 21110 – TERRACE RAINGARDEN

DESCRIPTION

Work under this item shall include all work labor, incidentals required to construct the rain garden system meeting the sizes, locations, specifications, and detail drawings contained in this document and in the plan set including all work required for concrete flume, rebar, aggregate base, geotextile, erosion control matting, terrace seeding between top of raingarden and grading extents, engineered soil, pea gravel and clear stone. Excavation cut and fill to meet proposed grades and subgrades identified in the plans and details for the terrace raingarden shall be incidental to this bid item.

Removal of existing curb, excavation cut and fill to meet proposed back of curb grades, underdrain, cleanout, storm sewer, storm structures, and installation of hand poured curb shall be excluded from this bid item and paid separately under their respective bid items. Hand poured curb shall be incidental to standard curb bid items. Planting shall be completed by others.

The Contractor shall review the drawings for each system as well as the detail drawings. The size of each garden is specific as is the means of providing stormwater to the system.

The City reserves the right to add or remove rain gardens from the contract. The Contractor shall not be compensated in any matter for the removal or addition of rain gardens from the contract. The addition of rain gardens shall be consistent with the already designed gardens as indicated in the plan set.

MATERIALS

Materials shall conform to Article 211.2 of the latest edition of the Standard Specifications for Public Works Construction.

Planting Mix topsoil shall conform to 202.2 (f) Planting Mix Topsoil and shall be placed 6" deep alongside slopes of terrace raingarden as indicated in detail drawing.

Concrete flume shall be constructed as shown on details D-1 and D-2, and are included with this bid item and shall meet requirements set forth in Article 304 - Miscellaneous Concrete Structures - 301.4 (a), (b), (c), and 304.2 (a), (b), (c) and 301.4 (d).

CONSTRUCTION

Construction shall conform to Article 211.3 Construction Methods and these special provisions. The Contractor shall be responsible for disposing all excavated material offsite at a location determined by the Contractor at no additional cost to the City.

Standard excavation shall begin as shown on the plans and shall be on a continuous slope from the top of the basin to the bottom of the basin as shown on plans. A 1' minimum flat buffer between the curb/sidewalk and top of basin shall be constructed as indicated on plans. The Contractor shall be responsible for protecting disturbed soil with Class I, Type A – Urban erosion matting which shall be included in this bid item.

Excavation below finish grade and replacement of existing material with engineered soil is required at the bottom of basin as shown on plans. Excavation below finish grade at the bottom of basin shall consist of two (2) feet of excavation below the finish grade shown on the detail drawings. This volume shall then be filled with engineered soil, as defined in 211.2(a), to the finish grade noted on the plans.

The Contractor shall be allowed to use existing excavated topsoil and fill along side-slopes, up to 6 inches below final grade. The Contractor shall use Planting Mix topsoil at depth of 6" to meet final grades.

Clear stone shall be placed around the concrete flume and shall provide adequate drainage for the flume. A layer of filter fabric shall be placed between the existing soil and clear stone. The Contractor shall be responsible for providing all materials to construct the terrace raingarden as defined in the Standard Specifications and these special provisions. All finishing work required to provide a finished engineered soil layer prior to placement of landscape fabric shall be included in this bid item. No stone shall be above the bottom elevation of the concrete flume – to ensure water to the raingarden terrace is not blocked.

Terrace raingardens installed between April 1 and September 1 shall receive Class I, Type A – Organic erosion control matting installed over the entire disturbed area to prevent erosion prior to planting season. Terrace raingardens installed outside this window shall only be matted on disturbed areas outside of the top of basin as shown on plans.

Once terrace raingarden is constructed, the Contractor shall provide, and install three sandbags on each concrete flume, behind curb to prevent water from entering raingarden prior to plant establishment. The Contractor shall place the sandbags to allow flow along the street gutter flow line, but prohibit flow from entering the raingarden. City staff will maintain, remove, and dispose of sandbags.

UTILITIES

The Contractor shall be required to complete utility locates as identified on plans where there are utilities. The Contractor shall follow all other applicable requirements of Article 211.3(b). Utility line openings may be required either as indicated on the plans or as directed by the Engineer, which shall be paid under BID ITEM 50801 – UTILITY LINE OPENING (ULO).

MGE: ULO's may not be required for MG&E gas main, pending potential relocation. Quantities for ULO's for gas have been included in the proposal page but may be removed.

METHOD OF MEASUREMENT

Terrace Rain Garden shall be measured by the square foot of garden installed in the field. This

measurement shall begin at the grading limits as shown on the detail drawing included in the plan set or as directed in the field.

BASIS OF PAYMENT

Terrace Rain Garden shall be measured as described above which shall be full compensation for all work, materials, equipment, excavation, hauling, and incidentals necessary to install the rain garden as described above. Installation of pea gravel, underdrain, cleanout(s), storm sewer, storm structures, and any storm sewer pipe shall be excluded from this bid item and paid separately under their respective bid items. Planting shall be completed by others.

BID ITEM 21301 – REMOVE AND REPLACE MAILBOX

DESCRIPTION

All work under this item shall be completed in accordance with the standard specifications, except that placement of temporary mailboxes will be paid under a separate bid item.

The Contractor shall remove existing mailboxes and store them in an appropriate location to ensure that they are not lost or damaged. The location of each existing mailbox shall be documented so that it can be reinstalled at or near the same location. Installation of the mailboxes shall be in accordance with USPS standards.

ARTICLE 301 CONCRETE AND CONCRETE MATERIALS GENERAL

SECTION 301.1 GENERAL

All concrete used on this contract shall conform to the standard specifications, with the additional modifications to the material being allowed as noted in the following.

CARBON DIOXIDE (CO₂) MINERALIZATION

The use of concrete that has undergone a carbonization treatment with Carbon Dioxide (CO₂) during mixing, such that CO₂ is chemically mineralized into the concrete, is permitted for use in 5-inch concrete sidewalk.

CO₂ mineralization: Supply CO₂ mineralized concrete, such that post-industrial carbon dioxide (CO₂) is injected into the concrete like an admixture and chemically converted into a mineral. The concrete may undergo mix optimization whereby the strength enhancement property of the mineralized CO₂ is utilized to adjust cementitious content, pending that the optimized concrete mix meets concrete performance requirements as outlined in Article 301 of the City of Madison Standard Specifications for Public Works Construction. Current known acceptable technologies are: CarbonCure Ready Mix Concrete Technology, but the Contractor may suggest alternatives, which will be reviewed by the Engineer for consideration as an acceptable alternative. Any alternatives must achieve the same result of containing/capturing additional Carbon Dioxide within the concrete material.

The injection and subsequent mineralization of CO₂ meets the requirements of ASTM C494 Type S admixture.

The Contractor shall submit an additional mix design to the City Engineer for concrete that has undergone CO₂ mineralization.

Minimum cementitious content and maximum water/cementing materials ratio requirements as outlined in Article 301 of the City of Madison Standard Specifications for Public Works Construction will be reviewed and may be adjusted by the Engineer pending review of the submitted mix design. Adjustment of

cementitious content and water/cementing materials ratio requirement will be at the sole discretion of the Engineer.

Any concrete items that undergo a carbonization treatment shall be identified by the Contractor and recorded by the Construction Engineer for future reference and long-term inspection. Use of this material may also be eligible for incentive payment under the appropriate item.

BID ITEM 30203 – TYPE 'X' CONCRETE CURB & GUTTER

Install Type 'X' Concrete Curb & Gutter at the locations indicated on the plans. Several driveways within the project limits are relatively steep. Contractor shall ensure that the slope from the back of curb to the flowline matches the driveway apron slope, at a minimum. In locations with steeper aprons, the vertical dimension from the back of curb to the flowline may be as much as 4.5" and/or the flowline may need to be adjusted to be only ½" below the edge of pavement. This item also includes locations where the curb and gutter is noted to have a 2.5' (30") dimension from the face of curb extended to the edge of pavement – the full width of the curb and gutter from back of curb to edge of pavement shall be 36", and the vertical dimension from the flowline to back of curb may be as much as 5.5".

ARTICLE 500 SEWER AND SEWER STRUCTURES GENERAL

The sanitary sewer and storm sewer designer for this project is Daniel Olivares and may be contacted at daolivares@cityofmadison.com or (608) 261-9285.

SANITARY SEWER GENERAL

This project shall include installing approximately 917 feet of new 8" PVC and 385 feet of new 12" PVC sanitary sewer main, and adjusting existing City of Madison and Madison Metropolitan Sewerage District (MMSD) sanitary access structures.

ASTM D3034 SDR-35 and SDR-26 sewer main as called for on the plan set shall be payable under (Bid Item 50301 and 50303). No additional compensation will be granted for ASTM D3034 SDR-26 pipe material.

Bid Item 90035 ADJUST MMSD SANITARY ACCESS STRUCTURE for one (1) MMSD sewer access structure.

All new sanitary sewer access structures shall include Neenah R-1550 castings with the new City of Madison casting detail (see S.D.D. 5.7.16) of the City of Madison Standard Specifications for Public Works Construction. All new sewer main connections may be factory cored and shall be included in the structure.

All existing main connections shall be field cored to accommodate existing conditions and shall be compensated under BID ITEM 50791 SANITARY SEWER TAP. All sewer main and/or laterals not slated for replacement that are damaged during the installation of a structure shall be replaced by the Contractor and shall be considered incidental to the project. All benches and flowlines shall have a smooth trowel finish.

All sanitary sewer laterals on this project were located by television inspection of the main and from City records.

It is advised that the Contractor visit the site prior to bidding to determine the type of trench protection that will be necessary for the sanitary sewer main installation.

The Contractor shall notify Ray Schneider (MMSD) at 608-347-3628 or RAYS@MADSEWER.ORG five (5) days prior to doing work on MMSD facilities. A direct connection permit will be required for proposed sanitary connections to MMSD sewer access structures. Permit and fees for this work is the responsibility

of the Contractor. MMSD confirmed that 1 permit (total) will be required for all of the proposed work to the MMSD facilities on the Lake Mendota project (\$1,600 - 2023 rate).

Parcels 5200 Lake Mendota Dr, 5160 Spring Ct, 5158 Spring Ct, 5156 Spring Ct do not require new sanitary laterals extended to the property, but notes on plans show proposed locations for lateral wyes along Spring Ct. The wyes should be capped at the main, and electronic marker balls must be placed above the sewer main.

Parcels 5122 Lake Mendota Dr, 5136 Lake Mendota Dr, 5140 Lake Mendota Dr, and 5141 Spring Ct will require new laterals extended to the parcel line as shown on plans.

Parcels 5312 Lake Mendota Dr and 5316 Lake Mendota Dr had new laterals installed with a previous public project. The lots will require lateral risers to be installed at the parcel line. Proposed plans for parcel 5312 Lake Mendota Dr also show a new lateral to provide an alternative bid for the Owner to evaluate their preference for private lateral replacement option.

Lateral replacement with reconnections is required for 1134 Minocqua Cres, 1137 Minocqua Cres, 1138 Minocqua Cres, 5127 Lake Mendota Dr, 5125 Lake Mendota Dr, 5117 Lake Mendota Dr, 1134 Merrill Springs Rd, 5025 Lake Mendota Dr and 5013 Lake Mendota Dr.

STORM SEWER GENERAL

Storm sewer pipe work shall include installing approximately 3861 feet of new storm sewer of various sizes ranging from 8" to 48" sewer pipe, as well as, 29"x45" and 38"x60" elliptical pipe.

Reconnection of existing pipes at new or existing structures, or new pipes at new or existing structures, shall be considered to be part of the work required to construct the new structure or to construct the new sewer pipe and shall not be rewarded with additional compensation. However, if the structure being removed is larger than the new structure, thus requiring additional pipe, the new pipe shall be paid under the appropriate bid item and the connection of the old pipe to the new pipe shall be accomplished with a concrete collar.

Where a new structure is to be constructed at an existing pipe, it is expected that the Contractor shall saw cut the existing pipe in the required location to accommodate the placement of the new structure. If the Contractor for his or her convenience deems it more suitable to remove the existing pipe to a full joint, the additional pipe and concrete collar required to reconnect to the new structure shall be the Contractor's responsibility and shall not be compensated.

Precast structures are only allowed where field poured structures are not specifically called for, and no precast structures are allowed until ULO's are completed and approval of the design engineer has been received.

Modified Type A and Type A curb and gutter are called for on plans. Curb inlet castings called for at locations with Modified Type A will require lowering the casting curb head approximately 2". Type A curb and gutter is shown near Spring Harbor Dr and Minocqua Cres.

ULO's shall be completed where called for on plans and paid under Bid Item 50801. There are additional undistributed ULO's to be used at the discretion of the City Inspector and Engineer.

Proposed storm sewer may be in conflict with existing Water Utility water main and water service laterals. After reviewing ULO data, possible storm sewer adjustments would be pursued to minimize or eliminate conflicts with existing utility infrastructure. Relocation of water main and service laterals shall be required where deemed necessary by Water Utility and in coordination with the City Inspector and Engineer. Relocations shall be paid under Bid Item 90032 RELOCATE WATER LATERAL SERVICE and Bid Item 90033 RELOCATE WATER MAIN.

Styrofoam sheet (2" thick x 4' wide x 8' long) shall be placed above existing water main and service laterals where proposed storm structures and storm pipes cross directly above water main. Styrofoam sheet shall be paid as Bid Item 70101.

SECTION 502.1(c) DEWATERING

DESCRIPTION

This section describes dewatering the site during construction or working with the water on-site in a manner that allows the project to be constructed in accordance with the plans and specifications. This item includes the dewatering of groundwater, surface water runoff, and trench dewatering.

The contractor is responsible for all work, materials and equipment required to comply with permit conditions to dewater the site. At a minimum, pump water into a settling tank, or an approved alternative, to settle solids prior to discharge clean water into the storm sewer or stabilized discharge location.

CONSTRUCTION

Subsection 205.3 of the standard specifications is supplemented with the following:

Water shall not be allowed in trenches while pipe is being laid.

No masonry shall be installed in water nor shall water be allowed to rise over masonry or concrete if there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

Dewatering shall be done in a manner that assures safe working conditions and provides stable trench side slopes and trench bottom for adequate support of the pipe and appurtenances. Dewater sufficiently to minimize or eliminate groundwater pressures below the proposed trench bottom which otherwise may tend to cause boiling or a "quick" condition at the trench bottom. Where silty sands or other impervious soils are encountered at and/or below the pipe zone, the dewatering equipment must be adequate to relieve the groundwater pressure below the impervious soil layer and accomplish sufficient drainage of the impervious soils to provide a stable trench bottom.

The Contractor shall be aware that any dewatering (including trench dewatering) shall be treated prior to discharge. The pumped water shall be treated to remove suspended solids. At a minimum, this treatment shall include running the pump water through a geotextile sediment bag, prior to discharge to the storm sewer. This geotextile sediment bag shall meet the requirements for WDOT Type HR as noted in section 502.1(c) of the City of Madison Standard Specifications for Public Works Construction Latest Edition.

If, at the determination of the Engineer, this treatment process is not providing sufficient sediment removal the Contractor shall add a polymer to the sediment bag. These polymers shall comply with the WDOT standards for Polyacrylamide Soil Stabilizers and shall conform to the WDOT's Product Acceptability List (PAL) for Soil Stabilizers, Type B.

Polymer would be added to the sediment bag in amounts as recommended by the manufacturer based on the pump rates being experienced on the site.

Type II Dewatering, paid under Bid Item 50202, is required when pump rates are greater than or equal to 70 gallons per minute. Per Bid Item 50202, pump water from the dewatering operations directly to a minimum 1,500 gallon holding tank to allow for settlement of large solids. Periodically pump clean water from the top of the settling tank into the storm sewer system or stabilized areas.

Any flooding or erosion damage caused by dewatering operations is the responsibility of the contractor. If flooding or erosion damage occurs, take immediate steps to eliminate those conditions and to correct any damage. The control of all surface and subsurface water, ice, and snow are considered part of the dewatering. Erosion control shall be exercised at all times, including the placement of perimeter controls,

sedimentation basins/sumps, stone weepers or velocity check dams (clear stone berm) and any other devices necessary for proper control.

Any dewatering discharge to or dewatering filter bags placed on vegetated or temporary gravel surfaces must be moved periodically to prevent sedimentation or erosion from occurring. Restoration of erosion that has occurred due to dewatering discharge shall be stabilized and/or restored at no additional cost to the contract where the soil disturbance or erosion adversely affects, adjacent or downstream, private property.

Dispose of all water removed so as not to endanger public health, private and public property or completed work. Only electrically driven pumps shall be used for dewatering. Provide sufficient mufflers or other noise reduction devices necessary to minimize the noise of the equipment. If ordered by the engineer, reduce noise to an acceptable level (as determined by the engineer) or supply an alternate system capable of meeting the noise requirements. This shall apply to any equipment utilized as part of the dewatering system.

Provide stand-by equipment to maintain continuous dewatering in the event of mechanical breakdown to part of the system.

The contractor is responsible for removal and/or abandonment of dewatering wells. Removal and/or abandonment shall conform to all state and local regulations.

METHOD OF MEASUREMENT

Dewatering of clean water will not be measured.

BASIS OF PAYMENT

Dewatering is incidental to the contract or paid under Type II Dewatering - Bid Item 50202; therefore, this work will not be paid separately and shall be included with the trenching operations for the particular pipe being installed. Dewatering includes all work necessary for pumping, settling, and discharging water; for any permit fees required; for elimination and correction of any flooding or erosion damage caused by dewatering operations; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

No disposal fees are required by the City of Madison for discharge to the storm sewer system.

BID ITEM 50202 - TYPE II DEWATERING

DESCRIPTION

This item is intended to cover any and all dewatering required for installation of the storm and sanitary sewer. Dewatering shall be in accordance with Article 502 of the Standard Specifications. Note that the Contractor shall be responsible for obtaining any permits required by DNR for this work, and for complying with such permits, including any reporting requirements.

The Contractor shall be responsible for designing a dewatering plan to fit the proposed construction methods.

The Contractor shall be aware that any dewatering (including trench dewatering) shall be treated prior to discharge. The pumped water shall be treated to remove suspended solids. Treatment for any Type II dewatering shall include running the pump water directly to a 1,500 gallon (minimum size) holding tank through geotextile sediment filtering screens, prior to discharge to the storm sewer. The geotextile sediment filtering screens shall meet the requirements of WDNR Technical Standard Dewatering Practices for Sediment Control (1061) for "Filter Baffles" and 502.1(c), "Table 3 Notes" of the City of Madison Standard Specifications for Public Works Construction Latest Edition.

If, at the determination of the Engineer, this treatment process is not providing sufficient sediment removal the Contractor shall add a polymer to the holding tank. These polymers shall comply with the WDOT standards for Polyacrylamide Soil Stabilizers and shall conform to the WDOT's Product Acceptability List (PAL) for Soil Stabilizers, Type B.

Polymer would be added to the dewatering tank in amounts as recommended by the manufacturer based on the pump rates being experienced on the site.

If necessary, the Contractor shall obtain, from the Wisconsin Department of Natural Resources (WDNR), in accordance with Paragraph 144.025(2)(e), Wisconsin Statutes, permits for all groundwater control wells which singly or in aggregate produce 70 or more gallons per minute. All wells shall be drilled and sealed in accordance with requirements of the WDNR for installing and abandoning wells. The address for obtaining well permits is:

Wisconsin Department of Natural Resources
Private Water Supply Section
BOX 7921
Madison, Wisconsin 53707

The Contractor shall be solely responsible for maintaining groundwater control, and operation must be compatible with the constraints defined. The Contractor shall be responsible for the adequacy of the groundwater control system and shall take all necessary measures to ensure that the groundwater control operation will not endanger or damage any existing adjacent utilities or structures.

The method or methods shall be designed, installed and operated in such a manner to provide satisfactory working conditions and to maintain the progress of work. The methods and systems shall be designed so as to avoid settlement or damage to adjacent property in accordance with the applicable legislative statutes and judicial decisions of the State of Wisconsin. All required pumping, drainage and disposal of groundwater shall be done without damage to adjacent property or structures, or to the operations of other contractors and without interference with the access rights of public or private parties.

BID ITEM 50390 – SEWER ELECTRONIC MARKERS

With regard to the City of Madison Standard Specifications for Public Works Construction Latest Edition Section 503.3(c), pipe bends, collars, or couplings require placement of an electronic marker ball with the City providing the Contractor with the required number of electronic markers.

BID ITEM 50797 - EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals required to provide and install External Sewer Access Structure Joint Seal in accordance with Article 507.3 of the City of Madison Standard Specifications for Public Works Construction Latest Edition.

METHOD OF MEASUREMENT

EXTERNAL JOINT SEAL shall be measured by each structure installation acceptably completed.

BASIS OF PAYMENT

EXTERNAL JOINT SEAL shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 50801 – UTILITY LINE OPENING (ULO)

The work under this item shall be completed in accordance with Article 508 of the Standard Specifications for Public Works Construction. The Contractor shall not be compensated more than once for multiple utilities located within a maximum distance of five (5) feet long.

This contract includes 10 additional undistributed ULOs to be performed at the direction of the Engineer.

As noted under excavation cut, excavations by hydrovac, including for ULOs, will be allowed on this project.

SECTION 701 PROVISIONS FOR WATER INSTALLATION AND ABANDONMENT

The water designer for this project is Tim Pearson. He may be contacted at (608) 206-3956 or tpearson@madisonwater.org.

The project consists of furnishing and installing 12-inch, 8-inch, and 6-inch ductile iron water main and fittings on Lake Mendota Drive within the project limits. The majority of the existing main on Lake Mendota Drive is CIPP main that was lined last year, ahead of this year's reconstruct. The lined main starts at the 12-inch valve at approximately 13+80 and continues East to the project limits at Shorewood Hills. The areas at the intersections called for replacement are the only areas that are not lined. There are special requirements for cutting into and tapping the lined main. When cutting into the lined pipe, the cut ends need to be sealed with a NSF 61 epoxy sealant. CIPP main cannot be direct tapped, and requires saddles, and the use of a hand operated hole saw style drilling machine. Additional information on CIPP related work is available upon request. The project also includes abandoning existing water main and hydrants, and removing some existing water main. All services that may require relocation due to conflicts with utilities or any other issue must be authorized and the new location approved in advance by the Water Utility inspector. Once the new systems have passed the pressure and water quality tests, cut off, extend as necessary, and reconnect the existing water service laterals to the new water mains unless the service is to be abandoned. Any broken curb stops, buried curb boxes or otherwise dysfunctional service components must be approved for adjustment, removal and/or replacement by the Water Utility inspector in advance of any work being performed.

Take all necessary precautions to protect newly installed main as well as the existing Madison Water Utility system and ensure its proper functioning during construction.

View the sites prior to bidding and become familiar with existing conditions and utilities.

SECTION 702 MATERIALS

Furnish all materials, labor and equipment necessary to complete this project except the tapping sleeves, tapping valves and tapping valve boxes. Water Utility will furnish the tapping sleeves, tapping valves, tapping valve boxes, and the crew to perform the taps.

SECTION 703 CONSTRUCTION METHODS

Perform all work in accordance with these provisions and the City of Madison Standard Specifications, current edition. Keep all valves accessible and functioning throughout the duration of the work or as directed otherwise by the Water Utility representative.

Water Services Outages Restrictions & Notifications

Contact affected business owners and/or managers before planning water service outages and schedule outages to accommodate their needs within allowable working hours including scheduling service outages on weekends. Sequence water main operations to minimize outages to affected business owners and residents.

The Village of Shorewood Hills has a feed and meter pit at the East end of the project limits. Notify the Shorewood Hills Department of Public Works ahead of any shut off that would affect their service. Mike Meier, Public Works Crew Chief Village of Shorewood Hills: (608)-209-5024

Be aware of traffic control requirements while performing any work that closes or partially closes any intersection. Refer to traffic control specifications and these special provisions for details.

WATER UTILITY GENERAL NOTES FOR SPECIFIC WORK:

- WN1 Replace the existing lead service with a new copper service.
- WN2 Extend and reconnect the existing copper service to the new water main.
- WN3 Existing service to be abandoned when water main is cut-off.
- WN4 Disconnect service from the old water main and reconnect the existing copper water service lateral to the new water main.
- WN5 Relocate the existing fire hydrant.
- WN6 Abandon water valve access structure.
- WN7 Furnish and install the new top section for the water access structure.
- WN8 Abandon the valve box.
- WN9 Furnish the ditch, compaction and all materials and labor for the installation of new service lateral.
- WN10 Remove and salvage existing hydrant.
- WN11 Replace the existing copper service with a new copper service.
- WN20+ See Water Impact Plan for connection point isolation and water shut-off notification information.

BID ITEM 90001 – INCENTIVE FOR USE OF CONCRETE WITH CARBONIZED TREATMENT

DESCRIPTION

This item shall include an incentive payment to the Contractor for installation of concrete sidewalk that uses material that includes the carbonized treatment as indicated under the special provision for Article 301.

The incentive payment shall be paid in a maximum lump sum of \$15,000 if all 5" concrete sidewalk on the project includes the carbonized treatment and is acceptably completed, using concrete mix designs that are approved by the Engineer prior to installation. If at least 50% of the 5" concrete sidewalk on the project utilizes this this technology, but less than 100%, then the incentive payment shall be \$7,500.

METHOD OF MEASUREMENT

Incentive for Use of Concrete with Carbonized Treatment will be measured as a lump sum, and will be paid at the contract unit price for work completed as set for in the description either in a quantity of 1.0 for all sidewalk work using the treatment, 0.5 for at least 50% of the sidewalk using the treatment, or 0.0 if none of the sidewalk uses the treatment. If between 50% and 100% of the sidewalk work utilizes the treatment, this item will be paid at 0.5.

BASIS OF PAYMENT

Incentive for Use of Concrete with Carbonized Treatment will be paid at the contract unit price for work acceptably completed using the specified technology.

BID ITEM 90002 – BARK MULCH

DESCRIPTION

This work shall consist of furnishing and installing bark mulch as shown on the plans and details, and as herein provided.

MATERIALS

Provide shredded hardwood mulch that is a natural brown color, and is free of any chemically treated wood or other deleterious substances. Bark mulch shall be shredded finely to be free of any pieces larger than 4 inches.

CONSTRUCTION

Place bark mulch at the locations and to the depths indicated on the plans and details. Rake mulch such that it is even and does not bury any existing landscaping that is to remain. Ensure that mulch won't overtop or be washed out over the sidewalk or curb & gutter. Likely compact in place.

METHOD OF MEASUREMENT

Bark Mulch shall be measured by the Square Yard, lightly compacted and accepted in place.

BASIS OF PAYMENT

This item, measured as provided above, will be paid for at the contract unit price, which price shall be payment in full for furnishing and installing all material, and for all labor, tools, equipment and incidentals necessary to complete this item of work.

BID ITEM 90003 – REMOVE, SALVAGE, AND REINSTALL RETAINING WALL

DESCRIPTION

This item shall include all work, equipment, materials, and incidentals necessary to remove existing retaining walls, salvage all materials, and reinstall either in kind at an adjusted location or in the same location as the existing wall as noted on the plans or as directed by the Engineer. This includes wall constructed with larger boulder type materials, block walls, lannon stone, flagstone or similar materials.

The Contractor shall carefully remove the existing walls to ensure that the wall materials are not damaged, and the wall materials shall be stored in a location where they will be secure and out of the way of construction activities or required access. Materials damaged during the removal process or from not properly securing and protecting the materials shall be replaced by the Contractor at no additional cost.

When it fits within the work progression, the Contractor shall re-install the wall either at the same location or a modified location, depending on work previously completed. The wall shall be re-installed to match the existing wall installation method, including, but not limited to, all drainage materials, base and backfill materials, fabrics, adhesives, mortar, or other installation methods. This item includes all necessary excavation work to re-install the wall.

METHOD OF MEASUREMENT

This item will be measured by the Square Foot of above ground wall, measured along the street-side face of the wall.

BASIS OF PAYMENT

This item, measured as provided above, will be paid at the contract unit price for work acceptably completed, which price shall all include all work, materials, equipment, and incidentals required to remove the existing wall, store and secure the wall materials, and to reinstall the walls at the appropriate location.

BID ITEM 90004 – TEMPORARY MAILBOX

DESCRIPTION

This item includes all work, materials, equipment, and incidentals necessary to install and maintain temporary mailboxes for properties where mail delivery will not be possible due to street closures and construction activities. All existing mailboxes outside the project limits shall remain and be accessible by USPS.

Mail delivery along this project is by a motor route to street-side mailboxes. When the street(s) are closed to thru traffic, the Contractor shall provide, install, and maintain temporary mailboxes for each property that will be inaccessible. If only a portion of the project is closed and under construction at a particular time, only properties within the limits of that work shall have temporary mailboxes installed; otherwise, the Contractor shall maintain access for mail delivery to all other properties.

The temporary mailboxes shall be rural sized mailboxes and shall have the address clearly shown on each box. The mailboxes shall be installed with a temporary concrete footing, but the Contractor shall determine the specific layout and methods of installation. The temporary mailboxes shall be placed on existing pavement, and the Contractor shall provide and maintain temporary "No Parking" signs along the area adjacent to the temporary mailboxes, and, construction drums shall be provided on either end of the temporary mail box area. For this project, the temporary mailboxes shall be installed west of the westerly project limits in the grass terrace area in front of Spring Harbor Middle School (between the existing sidewalk and curb) on the westerly side of Lake Mendota Drive to the north of Spring Harbor Drive.

The Contractor shall maintain the temporary mailboxes as necessary to ensure that they remain accessible by USPS and residents and are functioning properly and closing securely. Once the permanent mailboxes are reinstalled (paid under separate item), the temporary mailboxes shall be removed.

The Contractor shall contact the USPS to inform them prior to and after installation of the temporary mailboxes and to provide the address affected. Contact Carol Whitwell at 608-231-2305 to coordinate this work.

METHOD OF MEASUREMENT

This item will be measured by the Each unit acceptably completed.

BASIS OF PAYMENT

Temporary Mailbox, measured as provided above, will be paid at the contract unit price, which price shall be compensation in full for all work, materials, equipment, and incidentals necessary to provide, install, maintain, and remove the temporary mailboxes as set forth in the description.

BID ITEM 90005 – REMOVE AND SALVAGE BRICK PAVERS

DESCRIPTION

This item includes all work, equipment and incidentals required to remove and salvage pavers at the locations indicated on the plans, or as directed by the Engineer.

The Contractor shall carefully remove existing pavers as necessary to complete the work included with this contract, taking care to not damage the pavers. The pavers shall then be stacked outside the work zone at an agreeable location, confirmed by the adjacent property owner.

If the owner plans to reinstall the pavers in the same location, the Contractor shall extend the base materials for the adjacent sidewalk and/or driveway through the planned paver installation area. Extension of base material will be paid under the appropriate bid item.

METHOD OF MEASUREMENT

Remove and Salvage Brick Pavers will be measured by the Square Foot, acceptably completely.

BASIS OF PAYMENT

Remove and Salvage Brick Pavers, measured as provided above, will be paid at the contract unit price, which price shall be compensation in full for all work, equipment, and incidentals necessary to remove and salvage brick pavers, and to coordinate with adjacent property owner to stack them at an agreeable location.

BID ITEM 90006 – GEOSYNTHETIC REINFORCEMENT FABRIC (UNDISTRIBUTED)

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals necessary to provide and install Mirafi RS580i, TerraTex HPG HM58, or an approved equal.

CONSTRUCTION METHODS

The Geosynthetic Reinforcement Fabric shall be installed in accordance with the manufacturer's recommendations, including the amount of overlap between rolls. In locations identified for undercut, a maximum of 12" of Undercut shall be removed, under the entire road area, and replaced with Breaker Run. Undercut and Breaker Run shall be paid for under the appropriate bid items. The Breaker Run shall be placed directly over the Geosynthetic Reinforcement Fabric in 8 to 12-inch loose lifts. In locations without undercut, the Geosynthetic fabric shall be placed under the Gradation No. 1 base course layer and shall extend to approximately 1 ft. beyond the back of curb, unless tree conflicts have minimized the excavation limits. Rubber-tired vehicles may be driven at low speeds, 10 mph or less, and in straight paths over the exposed Geosynthetic Reinforcement Fabric.

METHOD OF MEASUREMENT

The Geosynthetic Reinforcement Fabric shall be measured by the square yard, in place. Any overlap of the rolls, measured either longitudinally or transversely, shall be included in the pay quantity, and will only be paid once.

BASIS OF PAYMENT

Geosynthetic Reinforcement Fabric shall be measured as described above, which shall be full compensation for all work, materials, equipment and incidentals to complete the work as described above.

BID ITEM 90007 – ADJUST WATER SERVICE BOX

DESCRIPTION

All work under this item shall be completed in accordance with Section 704.26 of the Standard Specifications, except as noted below.

Prior to work on any water service boxes, the Contractor shall contact Jeff Belshaw jbelshaw@madisonwater.org or 608-206-3856. If any service outages are necessary, the Contractor shall follow all notification requirements of the standard specifications.

BASIS OF PAYMENT

This item will be measured in accordance with the standard specifications and will be paid at the contract unit price, which price shall be compensation in full for all work, materials, equipment, and incidentals necessary to acceptably complete the work.

BID ITEM 90008 – 7-INCH CONCRETE, COLORED

This work shall be in accordance with the requirements of Part 3 of the Standard Specifications, except as herein after amended.

A separate design mix shall be provided for all areas to receive integrally colored concrete. Integrally colored concrete mix(es) shall not contain fly ash. Consider admixture recommendations for concrete mix design, however, mix design must also conform to the standard specifications. Submit the concrete mix design to the City of Madison for review.

Contractor shall provide a 12"x12" sample of the colored concrete, which will be reviewed and approved by the City prior to final installation. Provide a minimum of 3 days notice to the Engineer in order to schedule review of the sample.

Excess concrete material from mockups can be used elsewhere per the Engineers approval if the mix design meets the standard requirements of the secondary use.

MATERIALS

Integral-mix colored admixture shall conform to the requirements of ACI 303.1, ASTM C979, ASTM C494 and ASSHTO M194. Admixture shall be a single-component, colored, water-reducing, set-controlling admixture containing no calcium chloride with coloring agents that are lime-proof and ultra-violet resistant. The admixture shall be factory formulated and packaged in cubic yard dosage increments, not multiple additives and pigments added separately into the mix.

The Color shall either be BASF Natural Bark (MC5002) or an approved equal.

All surfaces shall be cured uniformly. The concrete shall never be covered with plastic sheeting.

Curing compound shall comply with ASTM C309 and be of same manufacturer as colored admixture, for use with integrally colored concrete. All placing, finishing, curing, joint sealing, and patching shall be in accordance with the admixture manufacturer's recommendations.

CONSTRUCTION

Add color pigment to concrete mixture according to manufacturer's written instructions and to result in hardened concrete color consistent with approved samples.

Protect all adjoining areas of concrete prior to pouring colored concrete. Finish the surface as required by the manufacturer, including a broom surface finish per the standard specifications.

Control joints shall only be sawed. Tool joints within the colored concrete will not be allowed.

Apply curing compound per manufacturer's recommended coverage rate and to meet curing requirements of the City of Madison Standard Specifications.

Colored Concrete shall match the visual appearance of the approved reference samples. Replace any not conforming to the reference samples at the Contractor expense.

METHOD OF MEASUREMENT

Colored 7-Inch Concrete shall be measured by the square foot installed and accepted.

BASIS OF PAYMENT

This item, measured as stated above, is full compensation for providing all materials, including concrete, joint fillers, joint sealers, and expansion joints; for excavating and preparing the foundation; backfilling and disposing of surplus material; for placing, finishing, protecting, and curing; and restoring the work site.

BID ITEM 90009 – PAVEMENT MARKING EPOXY, SPEED HUMP ARROW--EACH

All aspects of Wisconsin Department of Transportation 2023 standard specifications, Part 6, Section 646 shall apply, including description, materials, construction, measurement and payment. Construction shall be completed in accordance with City of Madison standard detail drawing 6.39.

BID ITEM 90030 – MODIFIED 4'X7' STORM SAS

DESCRIPTION

This item shall include all work necessary to field-pour a 4'x4' storm SAS on top of the existing concrete box culvert (RCBC).

The existing box culvert has a 12" thick walls and roof per as-built. The Contractor shall remove a four (4) foot by five (5) foot section of roof, install #6 epoxy-coated dowels set a minimum of six (6) inches into the roof, and construct a field-poured 4'x7' storm SAS, per S.D.D. 5.7.3., installed above the opening. One wall shall be installed over the exterior RCBC wall. The exterior joints shall be sealed with mastic.

The casting shall be a Neenah R-1689-0054.

METHOD OF MEASUREMENT

Modified 4'X7' STORM SAS shall be measured by each unit completed in place and satisfactorily installed.

BASIS OF PAYMENT

Modified 4'X7' STORM SAS, as measured above, shall be considered full compensation for all work, materials, and incidentals required to complete the work as described above.

BID ITEM 90031 – 5' X 7' STORM SAS

DESCRIPTION

Work under this item includes construction of a new 5' x 7' field poured STORM SAS, providing and installing two (2) R-1550-0054 castings setting and adjustment of the castings to the grade as called out

in the plan set or as directed in the field. The 5' x 7' field poured STORM SAS shall have steel reinforcement and wall dimensions as described below:

- a. Roof thickness is 8" in vertical thickness.
- b. Roof reinforcement shall be #6 bars 4" on center in the long dimension with #6 bars on 8" centers in the short dimension.
- c. Diagonal (45 degree) bars shall be provided around the cutouts for the two SAS castings on the structure.
- d. Long bars shall be centered 3" above the bottom of the roof with crossing bars tied above.
- e. The walls and floor shall be reinforced with #6 bars on 12" centers in both directions.
- f. Floor thickness shall be 10".

The Contractor shall either use epoxy coated steel for all reinforcement or shall provide concrete mix that is made with XYPEX C-1000 in accord with the manufactures recommendations. The option is the Contractors. Decision shall be document in writing to the City of Madison Construction Engineer.

The minimum compressive strength at twenty-eight (28) days for all concrete used on this project shall be four thousand (4000) pounds per square inch.

METHOD OF MEASUREMENT

5' x 7' STORM SAS shall be measured for payment as each unit completed and accepted.

BASIS OF PAYMENT

5' x 7' STORM SAS shall be paid for as each constructed structure. Price bid shall include all materials, labor and equipment necessary for a complete installation as shown and specified including excavation, bedding reinforced concrete, and connections to existing and proposed pipes.

BID ITEM 90032 - RELOCATE WATER LATERAL SERVICE

DESCRIPTION

Work under this item shall include all labor, materials, and incidentals necessary to modify and relocate water lateral services as necessary to avoid conflicts with the proposed storm sewer construction. This work shall include, but not limited to, installation of windows to go beneath the proposed storm sewer, or offsets to go around the proposed storm sewer. It is anticipated that the length of pipe to be relocated would be limited to the immediate crossing of the storm sewer. The work will include new joints, piping matching existing size and material, valves and other materials to complete the work. Prior to construction, all ULOs and any necessary redesign shall be completed in order to avoid potential conflicts. All finished work must be inspected and approved by the Water Utility Construction Supervisor and shall conform to all relevant sections of the City of Madison Standards Specifications for Public Works Construction Latest Edition. This work shall include all labor, materials, excavation and disposal of materials and all incidentals necessary to perform the work. Coordinate service relocation work to keep shut offs and service disruptions to a minimum. Freeze services if possible. Notify affected addresses as needed.

Contact Jeff Belshaw (jbelshaw@madisonwater.org, (608) 261-9835 if water service relocation may be necessary for coordination.

METHOD OF MEASUREMENT

RELOCATE WATER LATERAL SERVICE shall be measured per each specific instance as identified in the field.

BASIS OF PAYMENT

RELOCATE WATER SERVICE LATERAL shall be paid for at the contract unit price, which shall be full compensation for all excavation, disposal of removed material, preparation of subgrade including subbase, furnishing materials, backfilling and trench restoration, insulation installation, fill, topsoil, and for all labor, tools, equipment and incidentals necessary to complete the work.

BID ITEM 90033 - RELOCATE WATER MAIN

DESCRIPTION

Work under this item shall include all labor, materials, and incidentals necessary to modify and relocate water main as necessary to avoid conflicts with the proposed storm sewer construction. This work shall include, but not limited to, installation of windows to go beneath the proposed storm sewer, or offsets to go around the proposed storm sewer. It is anticipated that the length of pipe to be relocated would be limited to the immediate crossing of the storm sewer. The work will include new joints, piping matching existing size, valves and other materials to complete the work. Prior to construction, all ULOs and any necessary redesign shall be completed in order to avoid potential conflicts. All finished work must be inspected and approved by the Water Utility Construction Supervisor and shall conform to all relevant sections of the City of Madison Standards Specifications for Public Works Construction Latest Edition. This work shall include all labor, materials, excavation and disposal of materials and all incidentals necessary to perform the work.

Contact Jeff Belshaw (jbelshaw@madisonwater.org, (608) 261-9835 if water main relocation may be necessary for coordination.

METHOD OF MEASUREMENT

RELOCATE WATER MAIN shall be measured per each specific instance as identified in the field.

BASIS OF PAYMENT

RELOCATE WATER MAIN shall be paid for at the contract unit price, which shall be full compensation for all excavation, disposal of removed material, preparation of subgrade including subbase, furnishing materials, backfilling and trench restoration, insulation installation, fill, topsoil, and for all labor, tools, equipment and incidentals necessary to complete the work.

BID ITEM 90034 – ADJUST SANITARY SEWER LATERAL WITH RISER

DESCRIPTION

New sanitary sewer laterals were installed at addresses 5312 and 5316 Lake Mendota Dr (LMD) with a previous project. 5316 LMD will require work under this BID ITEM. 5312 LMD may require work under this bid as an alternative to a new lateral. The proposed new lateral for 5312 LMD is shown on plans.

Work under this BID ITEM shall include all work, materials, and incidentals to install a vertical riser for the installed lateral to raise the invert to the grade proposed by the Owner(s). If Type 2 dewatering is required to complete the lateral work it shall be paid under BID ITEM 50202 for the overall project. No additional dewatering will be paid for as a result of the riser lateral work.

The existing laterals were installed with a two (2) foot riser above the main, 18" cured-in-place lined cast iron pipe, with an estimated invert of 847.80 (5312 LMD) and 848.40 (5316 LMD) at the property line. The basement elevations are approximately 853.00.

METHOD OF MEASUREMENT

INSTALL SANITARY SEWER LATERAL RISER shall be measured by each unit completed in place and satisfactorily installed.

BASIS OF PAYMENT

INSTALL SANITARY SEWER LATERAL RISER, as measured above, shall be considered full compensation for all work, materials, and incidentals required to complete the work as described above.

BID ITEM 90035 – ADJUST MMSD SANITARY ACCESS STRUCTURE

DESCRIPTION

Work under this item shall include all work, materials, and incidentals necessary to adjust the castings on MMSD sanitary access structures from their existing elevations to the proposed finished grade elevations. This applies to the seven (7) structures called out for adjustment on the plan sheets and in the sanitary sewer schedule.

The Contractor shall notify Ray Schneider of MMSD at (608) 347-3628 or RayS@madsewer.org five (5) days prior to adjusting sanitary access structures and casting elevations.

CONSTRUCTION METHODS

MMSD will supply 9" castings and covers at no cost, and shall not be included in the method of measurement materials for this bid item.

The required casting elevations shall be achieved by cutting a barrel section or replacing the barrel section as needed, and removing adjustment rings to the top deck of the structure. Replace barrel section and adjustment rings, PRO-RING or approved equal, to allow 9" casting to match proposed grade. Care shall be taken to minimize adjusting ring height and total adjusting ring height must be between 3" and 9".

Install external joint wrap if barrel section is replaced. External joint wrap shall be incidental under this Bid Item.

During construction, care shall be taken to minimize damage to access structure lining systems. MMSD will coordinate or contract access structure lining system repairs or replacement to be completed by others.

METHOD OF MEASUREMENT

ADJUST MMSD SANITARY ACCESS STRUCTURE will be measured each access structures that has casting elevations adjusted, as required for work on this project.

BASIS OF PAYMENT

ADJUST MMSD SANITARY ACCESS STRUCTURE, measured as provided above, will be paid at the contract price per structure that has its casting elevation adjusted, which shall be full payment for all work to complete this item in accordance with the Standard Specifications.

BID ITEM 90036 –HYBRID TURF INSTANT ARMOR MAT WITH NATIVE SEED

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals necessary to provide and install hybrid turf instant armoring mat. The shall consist of a UV stabilized, monolithic polyethylene

simulated turf structure with approximate 7/16 inch by 5/8 inch rectangular apertures, backed with an engineered lightweight polyester geotextile. The geotextile must be dense enough to retain fine soil particles and seed, yet open enough to allow seedling emergence. The mat shall have an unvegetated permissible shear stress rating, as determined by ASTM D6460 large-scale channel testing, of 10 lbs/sf or greater for immediate as well as long-term erosion protection against high shear stress water flow.

CONSTRUCTION METHODS

The hybrid turf instant armoring mat shall be installed in accordance with the manufacturer's recommendations, including a 6" anchor trench and appropriate amount of overlap between rolls. A 6' wide roll is to be used to armor the 4' wide overflow weir and channel between the terraced rain gardens shown in the plan. The mat is to be centered on the and channel with equal overlap on each side. The soil under the mat shall be seeded with the "Short grass prairie mix" as defined in article 207.2(a) 6 of the City of Madison's specification book.

METHOD OF MEASUREMENT

The hybrid turf instant armoring mat shall be measured by the square yard, in place. Any overlap of the rolls, measured either longitudinally or transversely, shall be included in the pay quantity, and will only be paid once.

BASIS OF PAYMENT

Hybrid turf instant armoring mat shall be measured as described above, which shall be full compensation for all work, materials, equipment and incidentals to complete the work as described above.

BID ITEM 90037 –8" DOME GRATE ASSEMBLY

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals necessary to provide an 8" ductile iron dome grate assembly on the 8" riser pipe shown in the rain garden details.

CONSTRUCTION METHODS

The 8" ductile iron dome grate assembly shall be securely affixed to the riser at the elevation specified in the plans.

METHOD OF MEASUREMENT

The 8" ductile iron dome grate assembly shall be measured by each install gate.

BASIS OF PAYMENT

The 8" ductile iron dome grate assembly shall be measured as described above, which shall be full compensation for all work, materials, equipment and incidentals to complete the work as described above.

BID ITEM 90038 – 8" SCH 35 SWEEP AND CLEANOUT

DESCRIPTION

This work shall consist of providing and installing an 8" diameter schedule 35 PVC cleanout with long radius sweep finished with an 8" screw cap with square nut. The sweep riser shall be cut so the square nut of the screw cap is cut flush with the surface grade.

CONSTRUCTION

This item places an 8" SCH35 PVC SWEEP AND CLEANOUT and an 8" screw cap with square nut at the ends of the 8" drilled PVC underdrain.

METHOD OF MEASUREMENT

8" SCH35 PVC SWEEP AND CLEANOUT shall be measured per plan quantity.

BASIS OF PAYMENT

8" SCH35 PVC SWEEP AND CLEANOUT shall be measured as provided in the description above and paid at the contract unit price.

BID ITEM 90039 – 8" DRILLED PVC UNDERDRAIN

DESCRIPTION

This work shall consist of providing and installing an 8" diameter schedule 35 PVC pipe with 5/8" drilled holes spaced in 90 degree radial pattern alternating every 6 inches, see S.D.D. 5.7.47. The pipe is to be wrapped covered with a 6" thick layer of washed pea gravel.

CONSTRUCTION

This item places 8" schedule 35 PVC pipe below or within the engineered soil layer at the elevation specified on the plan.

METHOD OF MEASUREMENT

8" DRILLED PVC UNDERDRAIN shall be measured by the linear foot, and incidentals materials and equipment to install per plan. Engineered soil, pea gravel, and cleanouts shall not be included in this bid item.

BASIS OF PAYMENT

8" DRILLED PVC UNDERDRAIN shall be measured as provided above and paid at the contract unit price.

BID ITEM 90040 – PEA GRAVEL

This item shall include all work, equipment, materials and incidentals required to provide and install pea gravel drainage medium around drilled PVC underdrain to a 6" thickness on all sides. All applicable sections of Article 202 – Fill of the City of Madison Standard Specifications for Public Works Contracts shall apply.

METHOD OF MEASUREMENT

Pea Gravel shall be measured by the cubic yard, acceptably placed.

BASIS OF PAYMENT

Pea Gravel shall be measured as described above which shall be paid for at the contract unit price, which shall be considered full compensation for furnishing, placing and compacting the specified material including all equipment, tools, labor and incidentals necessary to complete the work as specified.



Department of Public Works
Engineering Division

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Deputy City Engineer

Bryan Cooper, AIA
Gregory T. Fries, P.E.
Chris Petykowski, P.E.

Deputy Division Manager

Kathleen M. Cryan

Principal Engineer 2

John S. Fahrney, P.E.
Janet Schmidt, P.E.

Principal Engineer 1

Mark D. Moder, P.E.

Financial Manager

Steven B. Danner-Rivers

February 21, 2023

NOTICE OF ADDENDUM
ADDENDUM NO. 1
CONTRACT NO. 8715

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

PLANS:

GI SHEETS: REVISED ALL GI SHEETS (REMOVED SHEET GI-7)

P SHEETS: REVISED SHEET P-3, P-3(+)

U SHEETS: REVISED ALL U SHEETS (U-1 to U-20)

X SHEETS: REVISED SHEET X-13

SPECIFICATIONS:

Add the following:

ARTICLE 103 AWARD AND EXECUTION OF THE CONTRACT

The awarded Contractor shall completely execute the signing of all contract documents and submit them to City Engineering (Attn: Alane Boutelle, 1600 Emil Street, Madison, WI 53703) prior to **12:00 pm on Thursday, March 23, 2023**. Delays in turning in the required completed contract documents will not adjust the project completion date. Payment and Performance Bonds shall be dated no sooner than **Wednesday, March 22, 2023**.

PROPOSAL:

See below for a summary of items that have been removed, added or revised. Refer to the proposal for updated quantities. See proposal on bidexpress.com.

ITEMS:

Action	Bid Item	Description
MODIFY	50771	INTERNAL CHIMNEY SEAL
MODIFY	20313	REMOVE INLET
MODIFY	20314	REMOVE PIPE
MODIFY	50722	6X6 CB
MODIFY	50723	3X3 STM SAS
MODIFY	50783	INSIDE DROP
MODIFY	50499	COLLAR
MODIFY	50401	12" STM
MODIFY	21110	TERRACE RAIN GARDEN

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

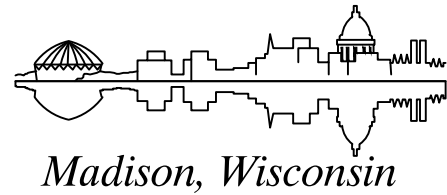
<http://www.bidexpress.com>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

Sincerely,

Chris Petykowski for: _____
James M. Wolfe, P.E.
City Engineer

RFP: ajc



CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

INDEX OF SHEETS

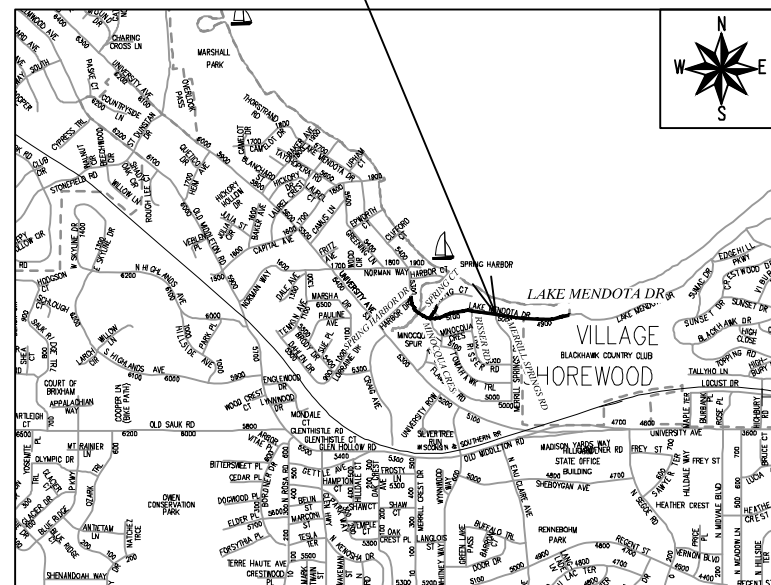
SHEET NO.	DETAILS
D1-D2	DETAILS
G11-G16	GREEN INFRASTRUCTURE
EC1-EC3	EROSION CONTROL PLANS
P1-P6	STREET PLAN & PROFILES
U1-U13	UTILITY PLAN & PROFILES
U14-U15	SANITARY SEWER SCHEDULE
U16-U20	STORM SEWER SCHEDULE
W1-W10	WATER PLANS
PM1-PM5	PAVEMENT MARKING PLANS
X1-X31	CROSS SECTIONS
MN-1	MAINTENANCE MAP

FILED NAME: M:\DESIGN\Projects\14082\CAD\Sheet\14082-TRB\Sheet.dwg DATE: 2/9/2023 1:58 PM

PROJECT LOCATION

CITY PROJECT NO. 14082
CONTRACT NO. 8715

REV 02/21/2023 BY AJC
ADDENDUM#1



EARTHWORK SUMMARY (GENERAL):

EXCAVATION CUT (MEASURED PLAN QUANTITY)	5,440 CY
ESTIMATED UNDISTRIBUTED UNDERCUT	1,490 CY
TOTAL UNCLASSIFIED EXCAVATION CUT	6,930 CY

EARTHWORK SUMMARY (FOR STORMWATER FEATURES ONLY):

EXCAVATION CUT (MEASURED PLAN QUANTITY)	203 CY
---	--------

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
BURIED ELECTRIC	E
OVERHEAD ELECTRIC	OH
POWER POLE	☐
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▣
COMBUSTIBLE FLUIDS	☼

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

PUBLIC IMPROVEMENT PROJECT APPROVED

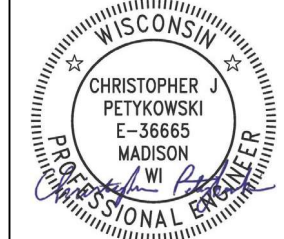
NOVEMBER 22, 2022

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

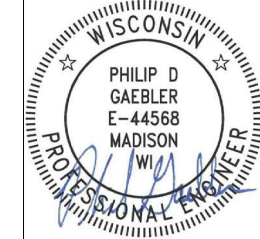
 Feb 10, 2023
City Engineer Date

STREET DESIGNED BY:



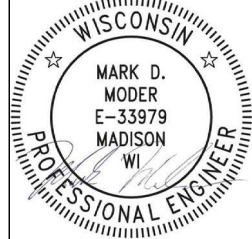
Feb 10, 2023

RAIN GARDENS DESIGNED BY:



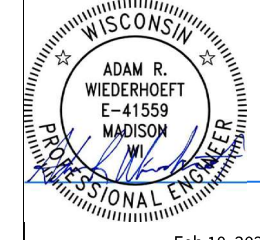
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SANITARY SEWER DESIGNED BY:



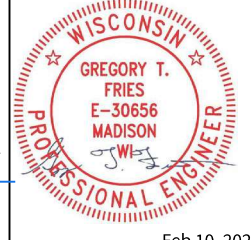
Feb 10, 2023

WATER DESIGNED BY:

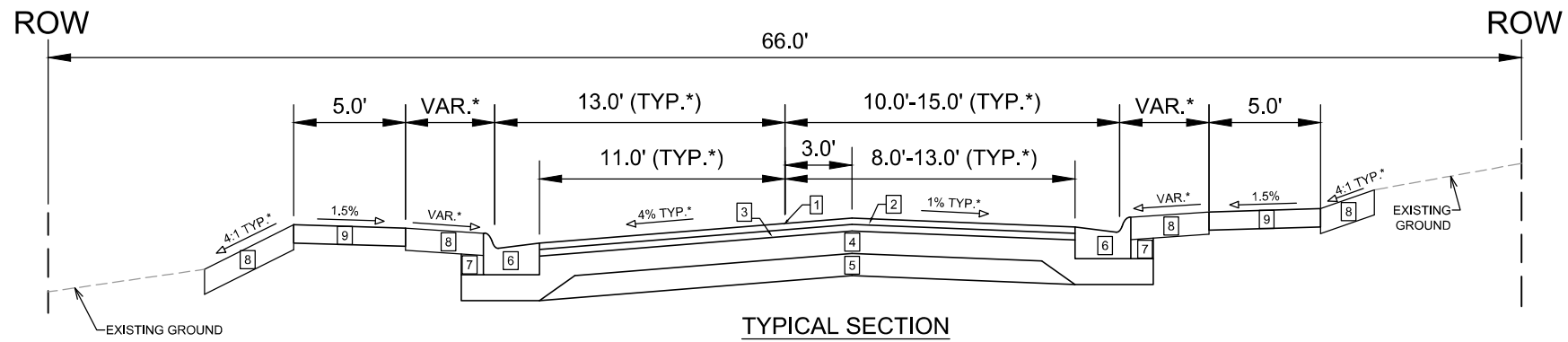


Feb 10, 2023

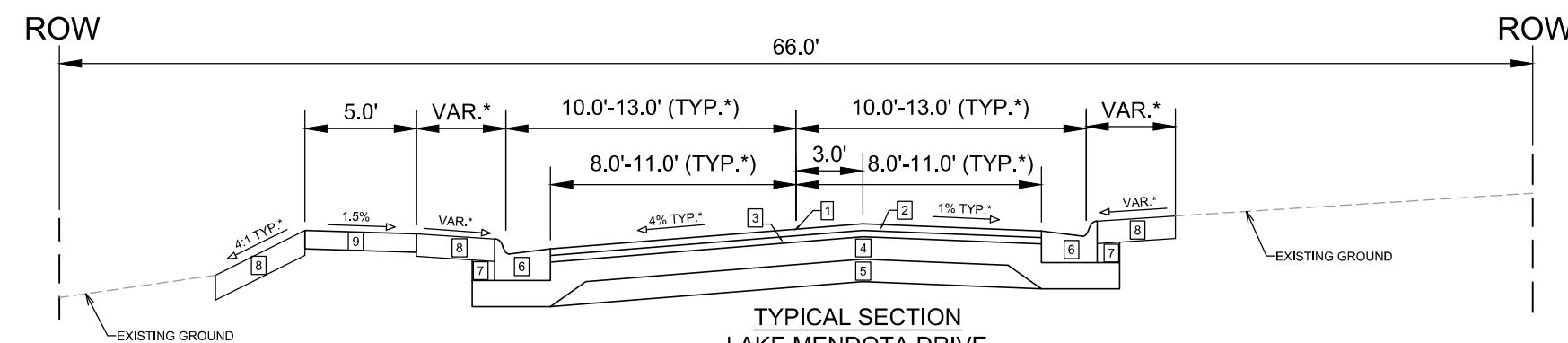
STORM SEWER DESIGNED BY:



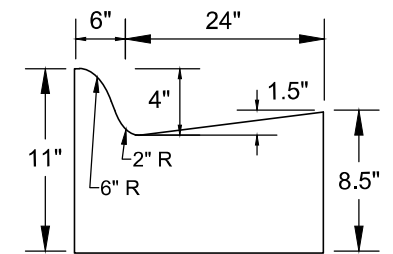
Feb 10, 2023



TYPICAL SECTION
LAKE MENDOTA DRIVE
(SPRING HARBOR DR TO MINOCQUA CRES)



TYPICAL SECTION
LAKE MENDOTA DRIVE
(MINOCQUA CRES TO STA 32+25)



MODIFIED TYPE 'A'
CONCRETE CURB & GUTTER
(PAY AS TYPE 'A' CONC C&G)

NOTES:

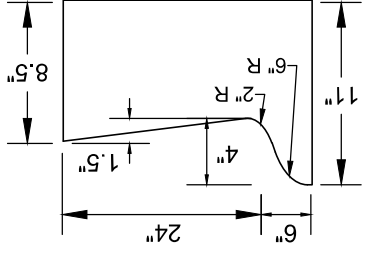
- * SEE P-SHEETS AND X-SHEETS FOR DIMENSIONING AND CROSS SLOPES
- ** REGULAR TYPE 'A' CURB & GUTTER AT SPRING HARBOR DR AND MINOCQUA CRES TIE-IN. SEE P SHEETS FOR LIMITS

- 1 POINT REFERRED TO ON PROFILE
- 2 1.75" HMA PAVEMENT- TYPE 4 LT 58-28 S
- 3 1.75" HMA PAVEMENT- TYPE 4 LT 58-28 S
- 4 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- 5 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- 6 MODIFIED TYPE 'A' CONCRETE CURB & GUTTER (SEE INSET DETAIL)**
- 7 FILL INCIDENTAL TO CURB & GUTTER INSTALLATION
- 8 6" TOPSOIL, SEED, & MAT (TYP.) OR 4" BARK MULCH (SEE PLANS)
- 9 5" CONCRETE SIDEWALK



14082	14082	8715	D-1
MADISON, WI	MADISON, WI	CONTRACT NO.	
TYPICAL SECTIONS			
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023			
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14082		D-1	

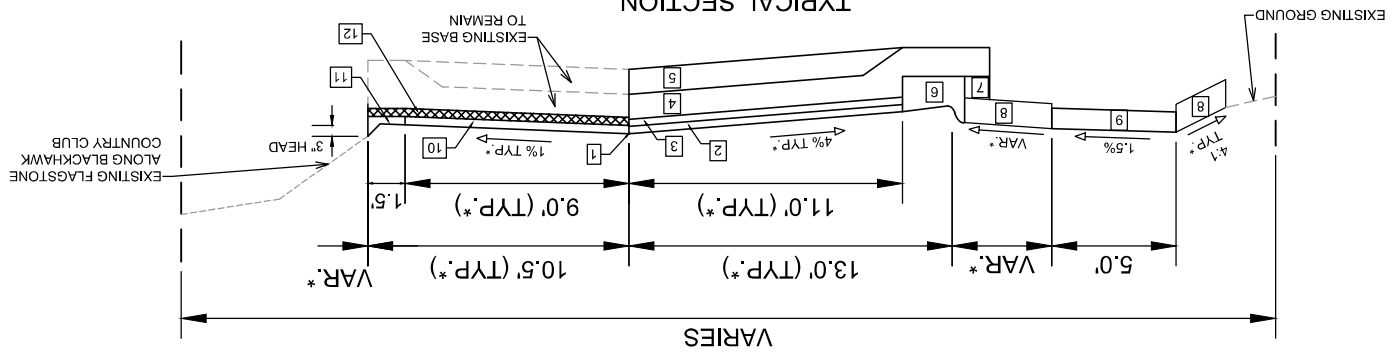
MODIFIED TYPE 'A' CONCRETE CURB & GUTTER (PAY AS TYPE 'A' CONC C&G)



NOTES:
 * SEE P-SHEETS AND X-SHEETS FOR DIMENSIONING AND CROSS SLOPES
 ** BLEND CARLSON SCREED CURB ONTO EXISTING ROCK WALL ALONG BLACKHAWK COUNTRY CLUB, CLEAR DEBRIS AND LOOSE ROCKS PRIOR TO PAVING. PAY AS MACHINE LAID ASPHALT CURB

- 1 POINT REFERRED TO ON PROFILE
- 2 1.75" HMA PAVEMENT - TYPE 4 LT 58-28 S
- 3 1.75" HMA PAVEMENT - TYPE 4 LT 58-28 S
- 4 GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- 5 GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- 6 MODIFIED TYPE 'A' CONCRETE CURB & GUTTER (SEE INSET DETAIL)**
- 7 FILL INCIDENTAL TO CURB & GUTTER INSTALLATION
- 8 TOPSOIL, SEED, & MAT
- 9 CONCRETE SIDEWALK
- 10 HMA PAVEMENT - TYPE 4 LT 58-28 S
- 11 ASPHALTIC CARLSON SCREED CURB** (3" DEPTH TO MATCH PAVEMENT)
- 12 PULVERIZE ASPHALT, GRADED AND COMPACTED

TYPICAL SECTION LAKE MENDOTA DRIVE (STA 32+25 TO EASTERLY LIMITS)



CITY OF MADISON ROW VARIES VILLAGE OF SHOREWOOD HILLS ROW

14082

MADISON, WI 53715

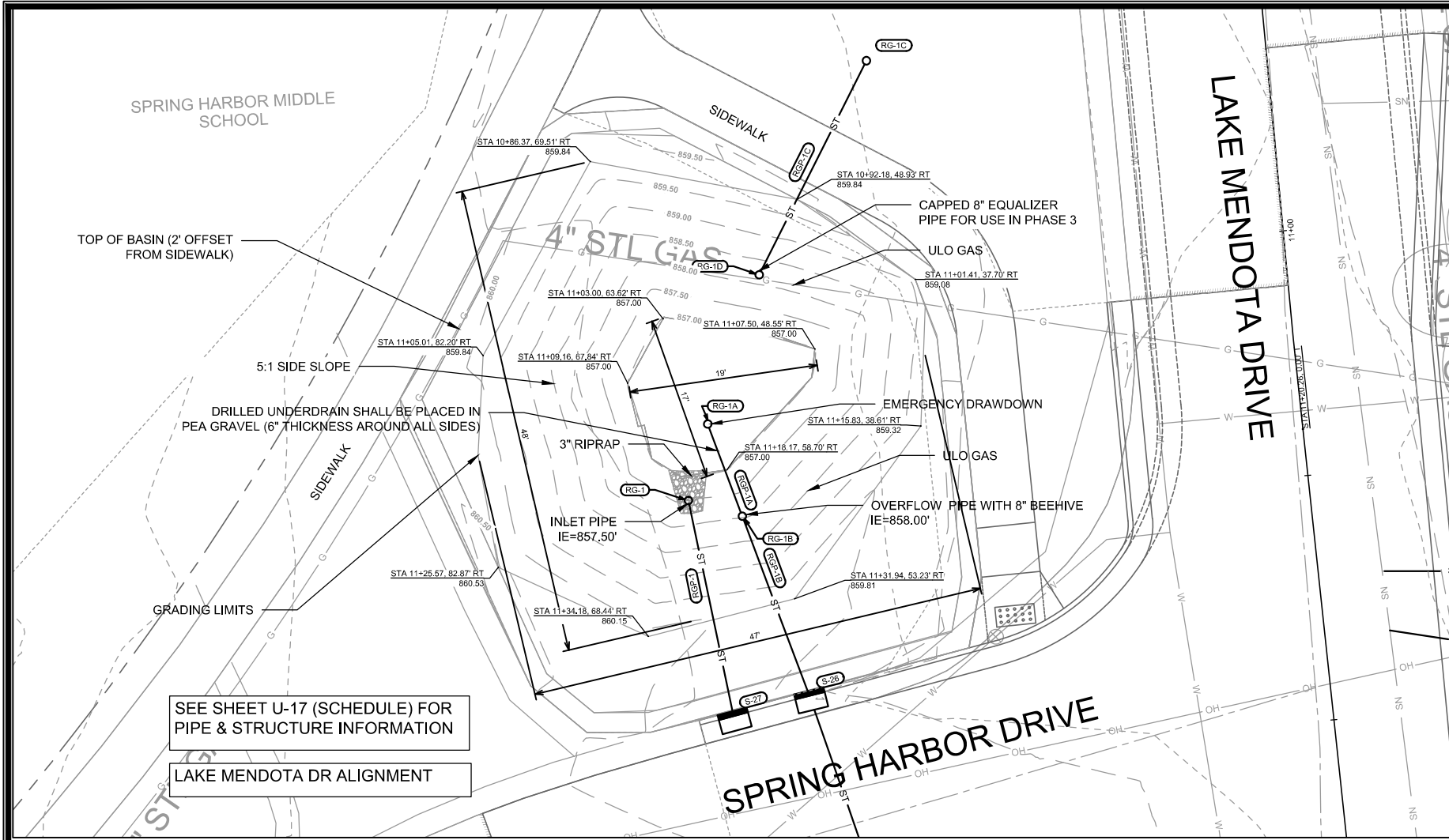
CONTRACT NO.: 8715

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

TYPICAL SECTIONS

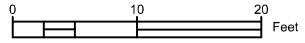
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NO.	DATE	BY	SCALE	REVISION
1				
2				
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7				
8				
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10				
11				
12				



SEE SHEET U-17 (SCHEDULE) FOR PIPE & STRUCTURE INFORMATION

LAKE MENDOTA DR ALIGNMENT



- NOTES:
- ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS. SEE SPECIAL PROVISIONS
 - DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.

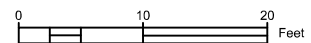
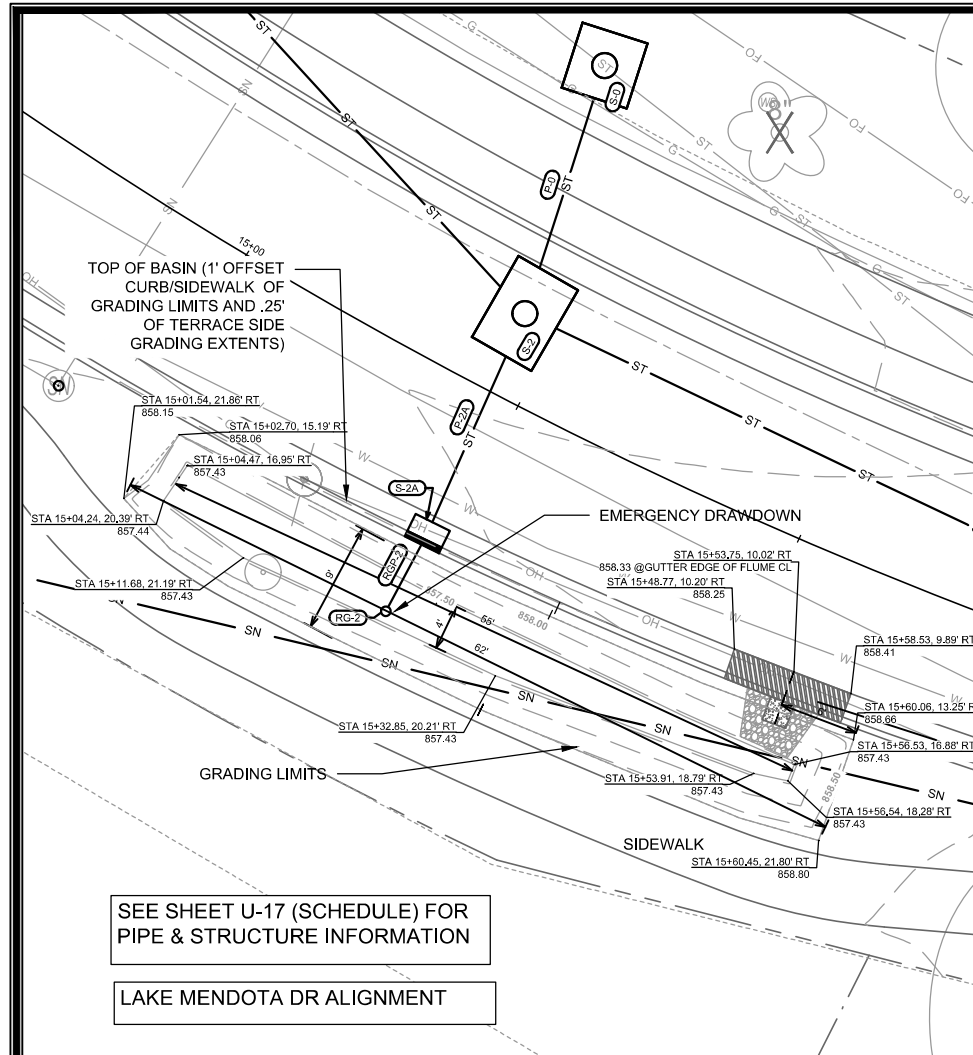
DATE	BY
22/03	PCG
REVISION	
PLAN UPDATE	
14082	

14082
MADISON, WI
CONTRACT NO.: 8622

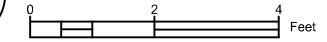
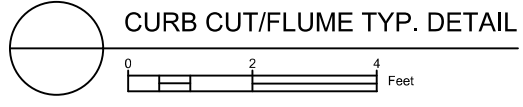
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LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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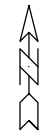
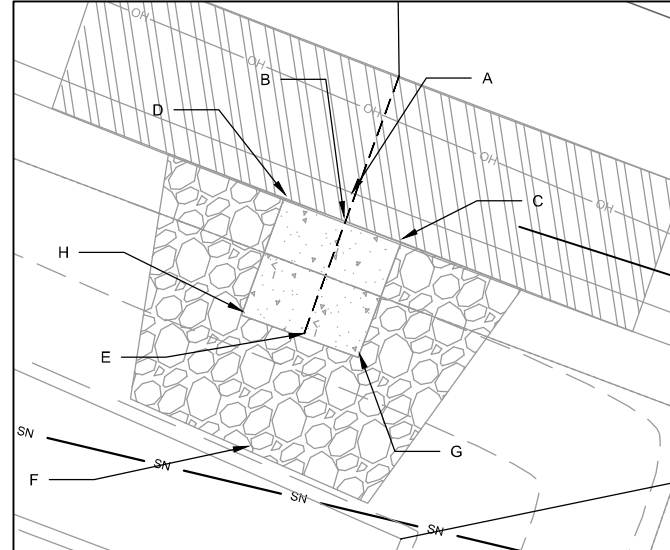
14082
GI-1



NOTES:
 1. ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS. SEE SPECIAL PROVISIONS
 2. ALL AREAS OUTSIDE OF TOP OF BASIN SHALL RECEIVE TERRACE SEED MIX, DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
 3. SEE DETAIL D-1 AND D-2.



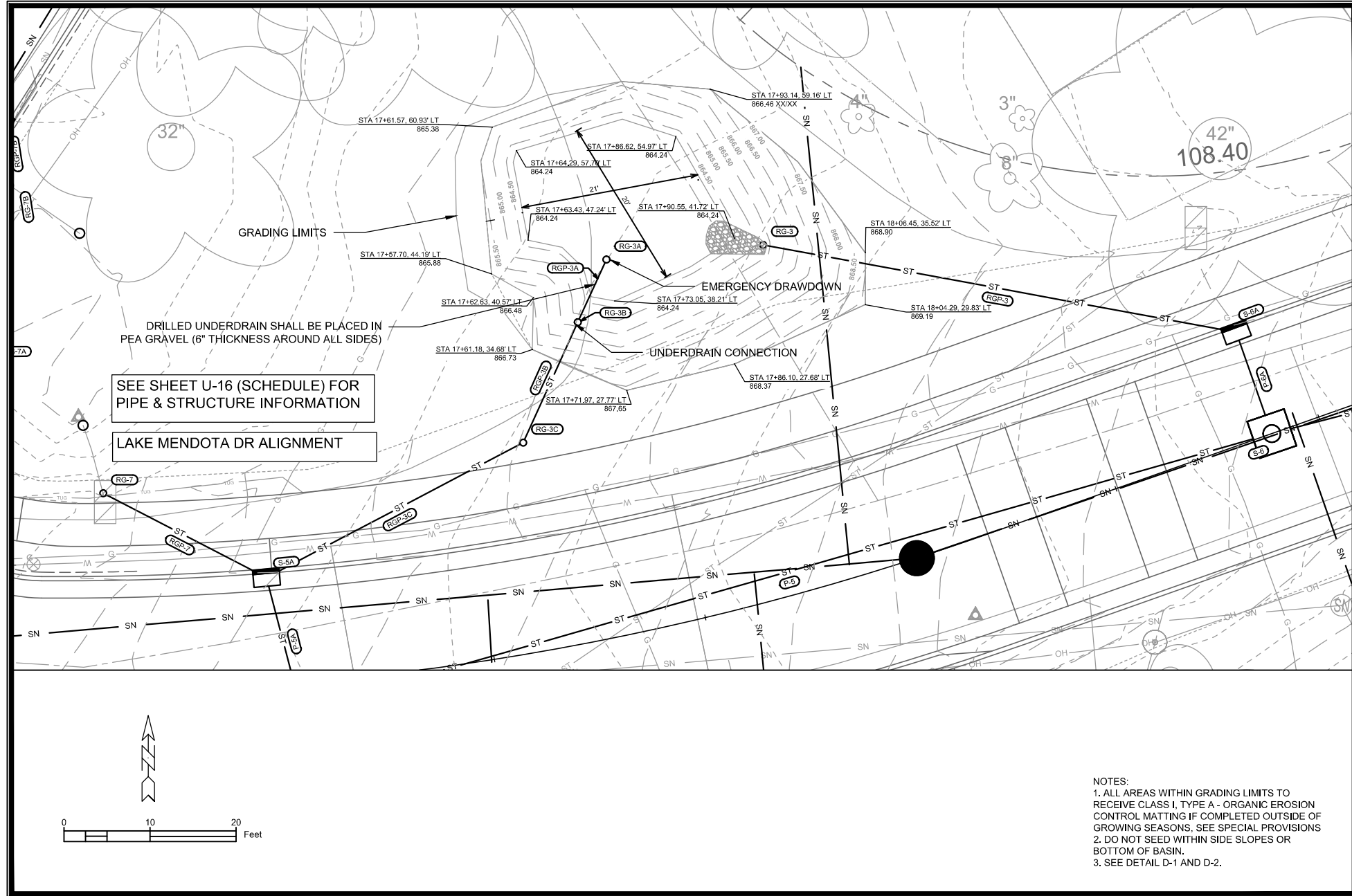
DETAIL POINT ELEVATIONS/DESCRIPTIONS			
Point	Point Description	Distance from Existing FlowLine (ft)	Elevation
		Pond depth (inches) from pt. A/Pond depth (inches) @ overflow	10.2 (1IN)/7.5(1IN)
		Distance from Existing FlowLine (ft)	Elevation
	Ex. EOG at CL of Flume	+0.125	858.41
A	Standard Gutter Flow Line at CL of Flume	0	858.29
B	o. Gutter Flow Line at CL of Flume Meeting Cu	-.17'(2")	858.12
C	Edge of Flume @ Gutter (Uphill)	varies	858.24
D	Edge of Flume @ Gutter (Downhill)	varies	858.18
E	Bottom of Flume at CL	-.33'(4")	857.95
F	Bottom of Stone/Pond	-.5'(6")	857.43
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	858.07
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	858.02



14082
 MADISON, WI
 CONTRACT NO.: 8622

GREENINF - 5209 LAKE MENDOTA DR
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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14082
 GI-2



SEE SHEET U-16 (SCHEDULE) FOR PIPE & STRUCTURE INFORMATION

LAKE MENDOTA DR ALIGNMENT

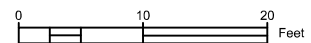
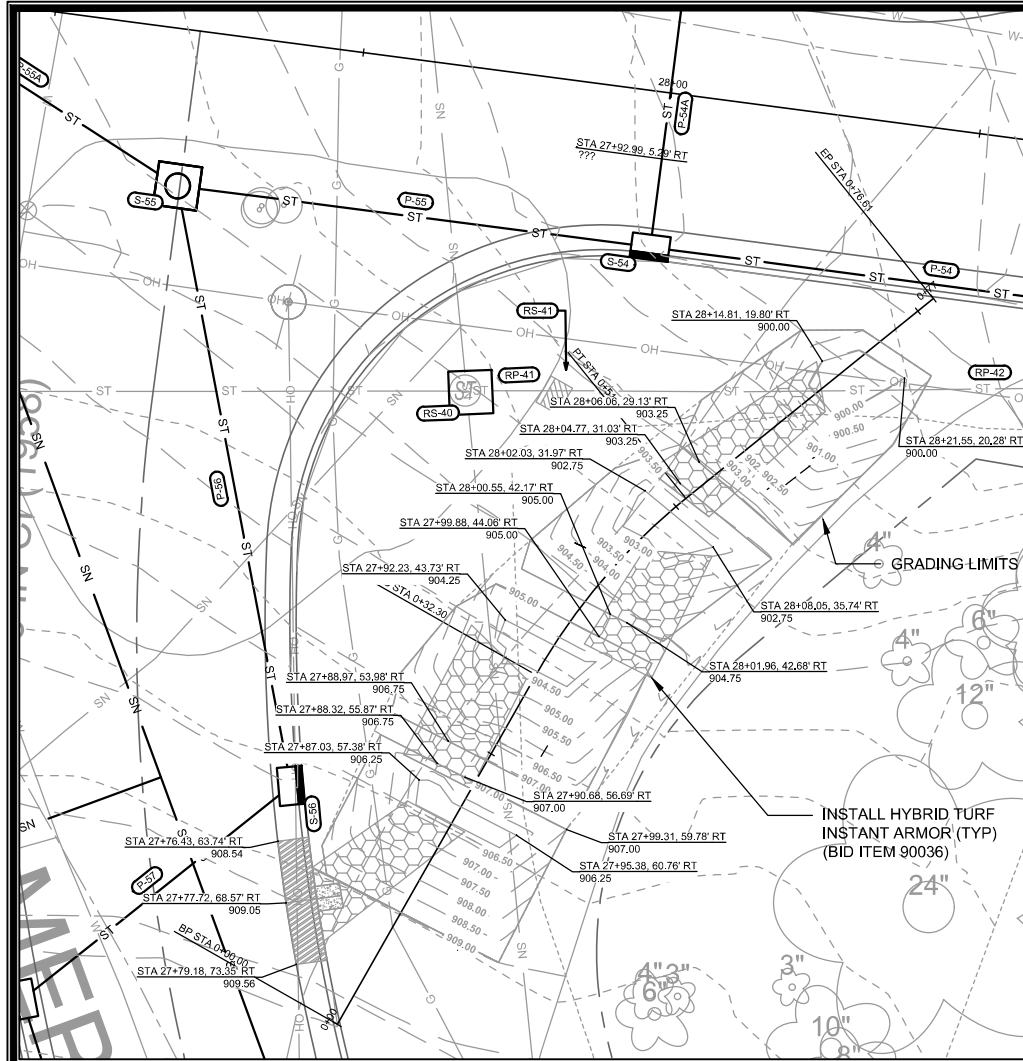
DRILLED UNDERDRAIN SHALL BE PLACED IN PEA GRAVEL (6" THICKNESS AROUND ALL SIDES)

- NOTES:
1. ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS, SEE SPECIAL PROVISIONS
 2. DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
 3. SEE DETAIL D-1 AND D-2.

PROJECT NO.	14082
CONTRACT NO.	8622
DATE	22/03
BY	GI-3
SCALE	AS SHOWN
REVISION	
PLAN/DATE	22/03
ADD.1	
MARK	
DATE	22/03/23 12:38 PM
SCALE	14082

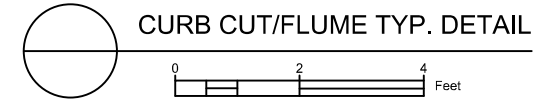
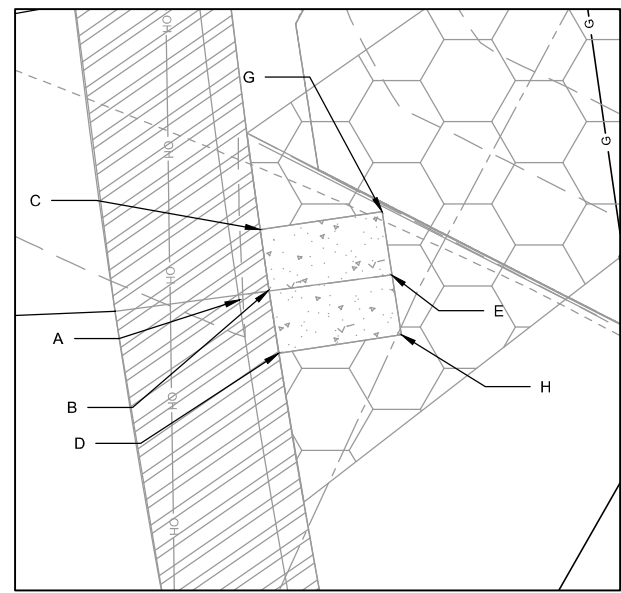
GREENINF - TURTLE PARK
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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14082
 MADISON, WI
 CONTRACT NO. 8622
 GI-3



- NOTES:
 1. ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS. SEE SPECIAL PROVISIONS
 2. ALL AREAS OUTSIDE OF TOP OF BASIN SHALL RECEIVE TERRACE SEED MIX, DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
 3. SEE DETAIL D-1 AND D-2.

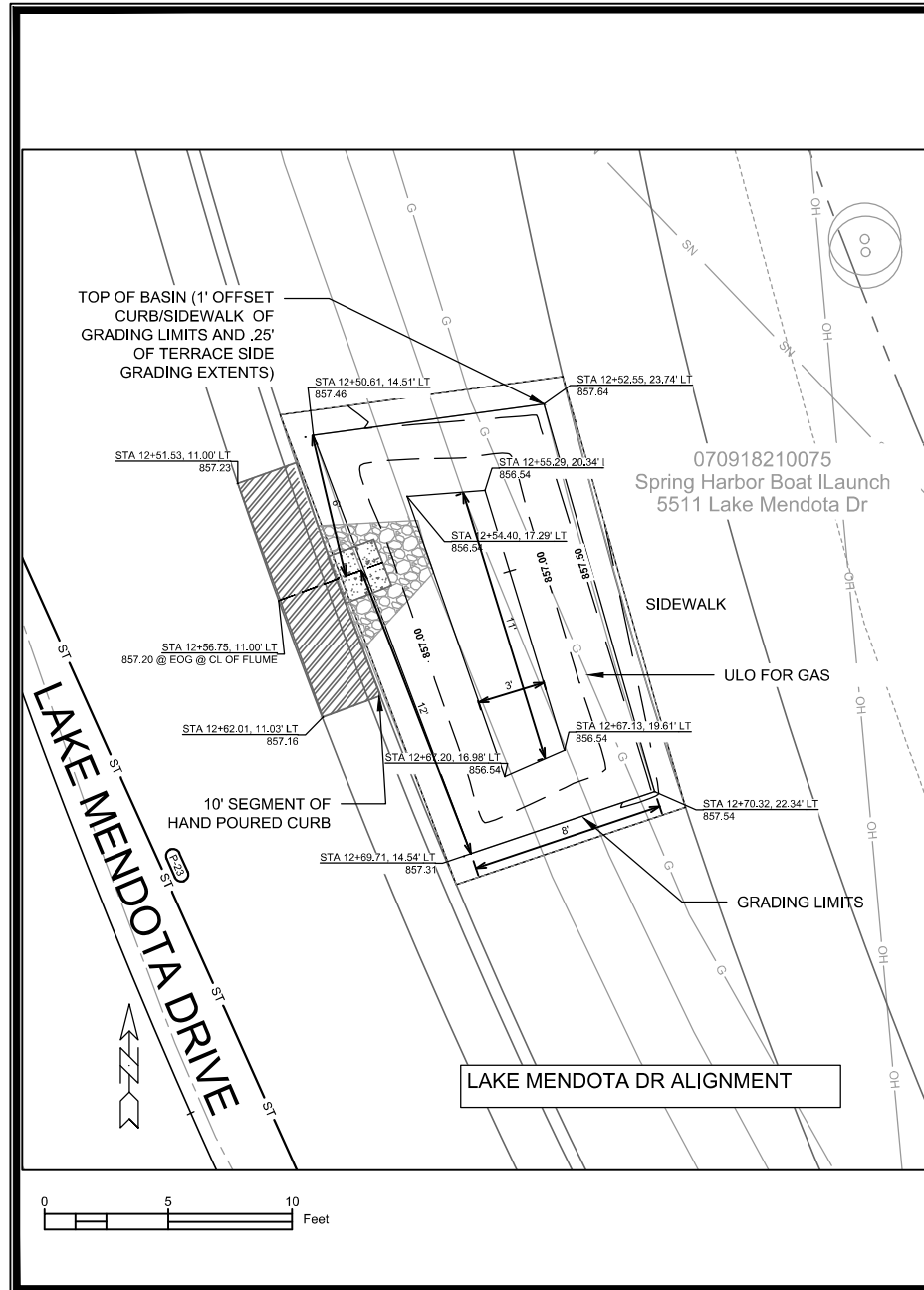
DETAIL POINT ELEVATIONS/DESCRIPTIONS			
Point	Point Description	Distance from Existing FlowLine (ft)	Elevation
	Ex. EOG at CL of Flume	+0.125	909.05
A	Standard Gutter Flow Line at CL of Flume	0	908.93
	Pro. Gutter Flow Line at CL of Flume Meeting Curb	-0.17'(2")	908.76
B	Edge of Flume @ Gutter (Uphill)	varies	908.67
C	Edge of Flume @ Gutter (Downhill)	varies	908.47
D	Bottom of Flume at CL	-.33'(4")	908.59
E	Edge of Flume @ Bottom of Basin (Uphill)	varies	908.50
G	Edge of Flume @ Bottom of Basin (Downhill)	varies	908.30



GREENINF - MERRILL SPRINGS RD
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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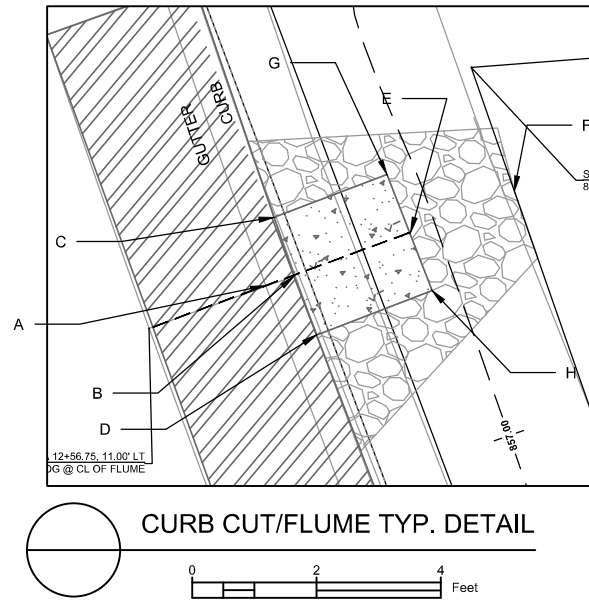
14082
 8622
 CONTRACT NO.

14082
 GI-4

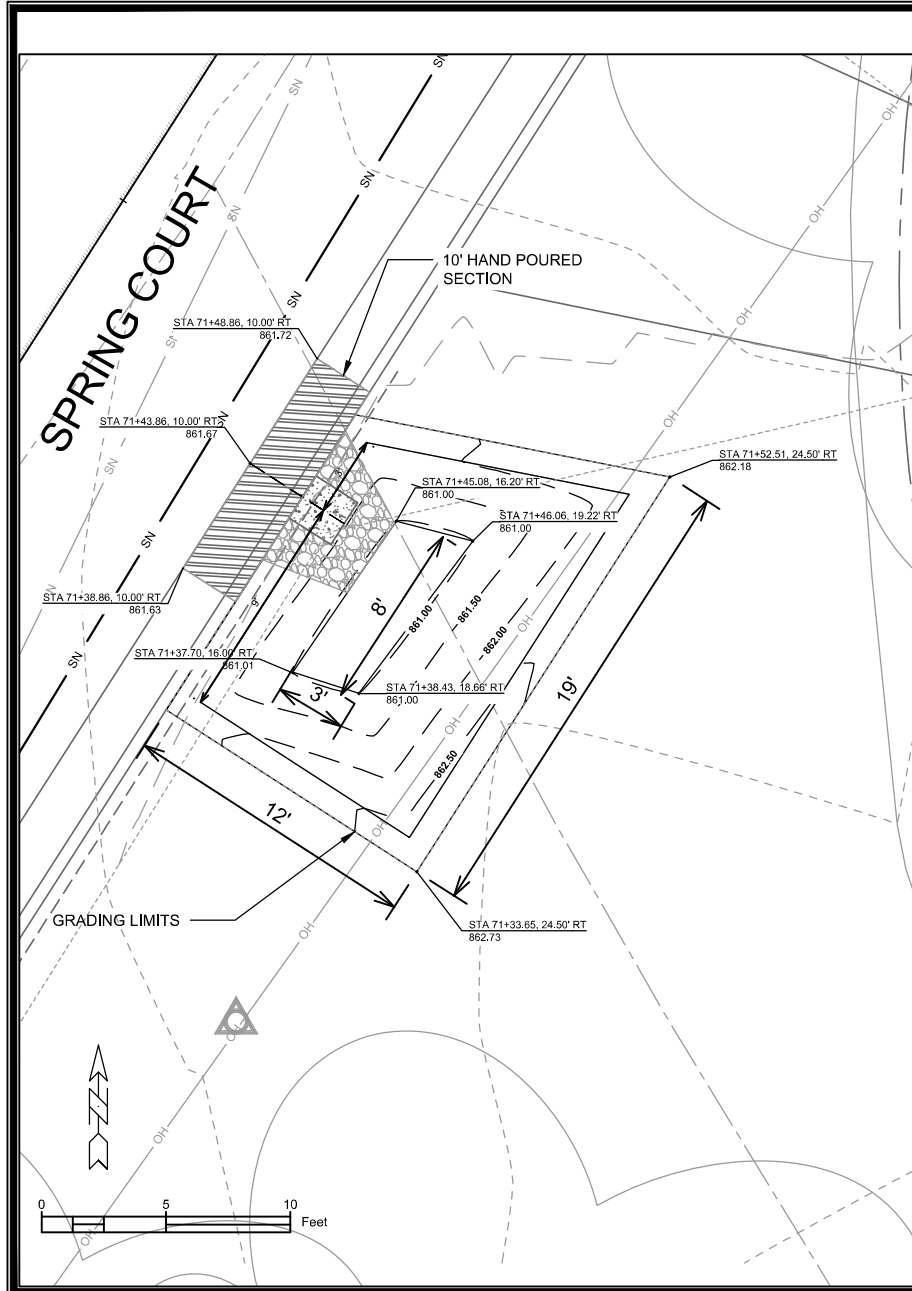


- NOTES:
1. ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS. SEE SPECIAL PROVISIONS
 2. DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
 3. SEE DETAIL D-1 AND D-2.

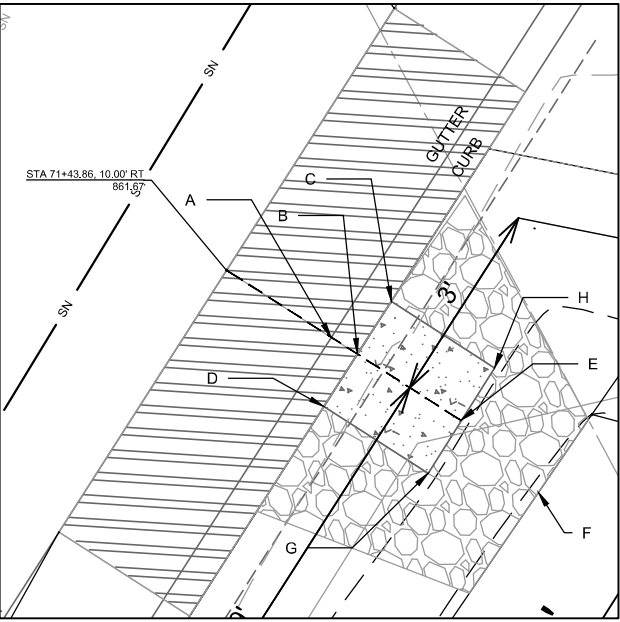
DETAIL POINT ELEVATIONS/DESCRIPTIONS			
Point	Point Description	Distance from Existing FlowLine (ft)	Elevation
		Pond depth (inches) from pt. A/Pond depth (inches) @ overflow	6.4 (IN)/9.3 (IN)
	Ex. EOG at CL of Flume	+0.125	857.20
A	Standard Gutter Flow Line at CL of Flume	0	857.08
B	Pro. Gutter Flow Line at CL of Flume Meeting Curb	-.17'(2")	856.91
C	Edge of Flume @ Gutter (Uphill)	varies	857.06
D	Edge of Flume @ Gutter (Downhill)	varies	857.04
E	Bottom of Flume at CL	-.33'(4")	856.74
F	Bottom of Stone/Pond	-.5'(6")	856.54
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	856.89
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	856.87



DATE	22/03	PG	1
REVISION	PLAN/UPDATES	DATE	22/03
BY		SCALE	AS SHOWN
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NO.	14082	CONTRACT NO.	8622
GREENINF - SPRING HARBOR BOAT LAUNCH		MADISON, WI	
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023		CONTRACT NO. 8622	
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14082		GI-5	



Point	Point Description	Distance from Existing FlowLine (ft)	Elevation
		Pond depth (inches) from pt. A/Pond depth (inches) @ overflow	6.5 (IN)/9.5 (IN)
		Distance from Existing FlowLine (ft)	Elevation
	Ex. EOG at CL of Flume	+0.125	861.67
	Standard Gutter Flow Line at CL of Flume	0	861.55
A	Pro. Gutter Flow Line at CL of Flume Meeting Curb	-.17'(2")	861.38
B	Edge of Flume @ Gutter (Uphill)	varies	861.52
C	Edge of Flume @ Gutter (Downhill)	varies	861.50
D	Bottom of Flume at CL	-.33'(4")	861.21
E	Bottom of Stone/Pond	-.5'(6")	861.00
F	Edge of Flume @ Bottom of Basin (Uphill)	varies	861.44
G	Edge of Flume @ Bottom of Basin (Downhill)	varies	861.42
H			

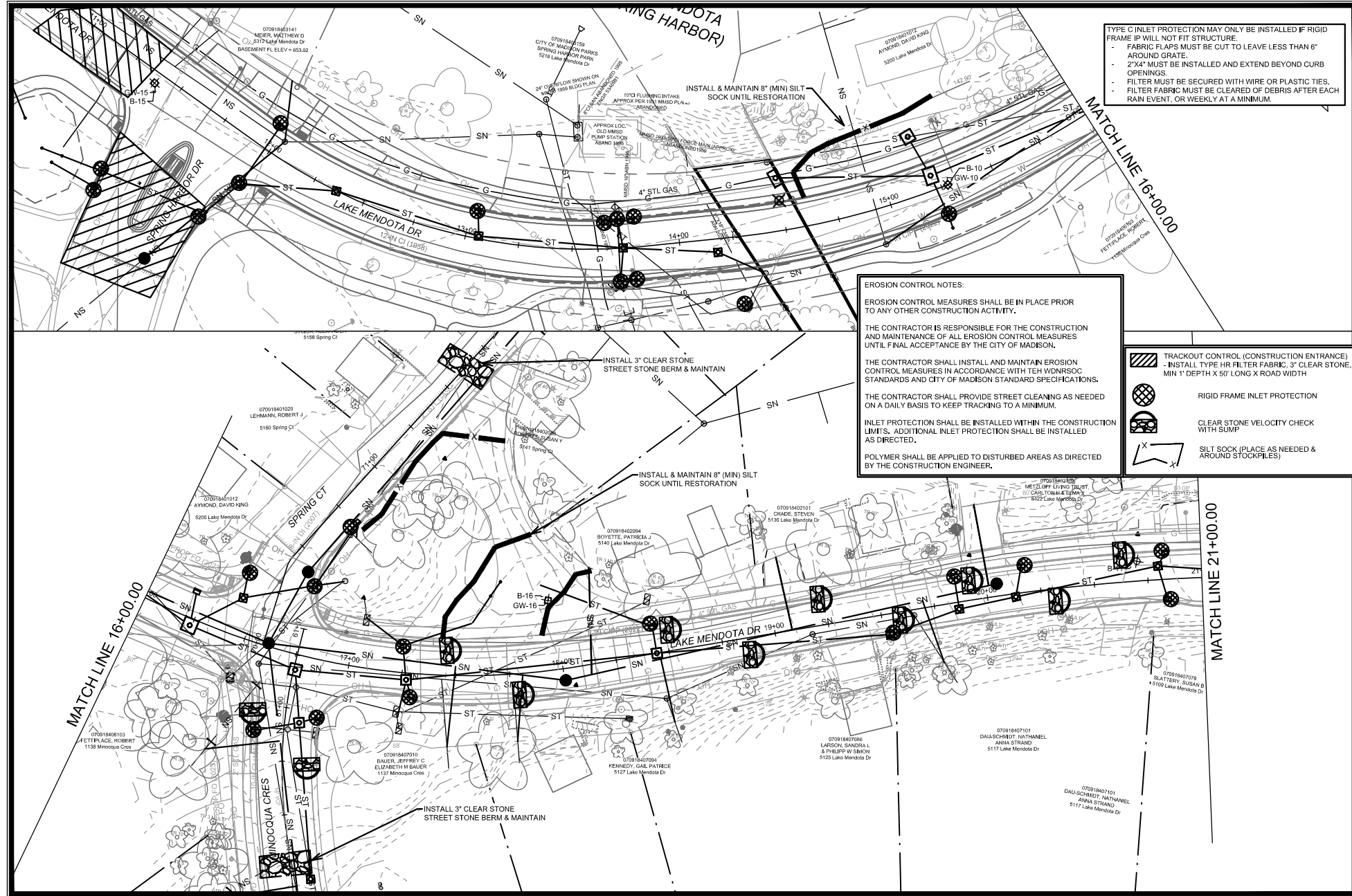


NOTES:
 1. ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS. SEE SPECIAL PROVISIONS
 2. DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
 3. SEE DETAIL D-1 AND D-2.

GREENINF - TURTLE PARK NORTH
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 M:\DESIGN\Projects\14082\CAD\Sewers\14082SVR-GreenInf_V3.dwg

DATE	BY
22/03	PGC
DATE	BY
22/03	PGC
DATE	BY
22/03	PGC
DATE	BY
22/03	PGC

14082
 CONTRACT NO.: 8622
 14082
 GI-6



TYPE C INLET PROTECTION MAY ONLY BE INSTALLED IF RIGID FRAME IP WILL NOT FIT STRUCTURE.

- FABRIC FLAPS MUST BE CUT TO LEAVE LESS THAN 6" AROUND GRATE.
- 2"x4" MUST BE INSTALLED AND EXTEND BEYOND CURB OPENINGS.
- FILTER MUST BE SECURED WITH WIRE OR PLASTIC TIES.
- FILTER FABRIC MUST BE CLEARED OF DEBRIS AFTER EACH RAIN EVENT, OR WEEKLY AT A MINIMUM.

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH TEH WDRNSOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

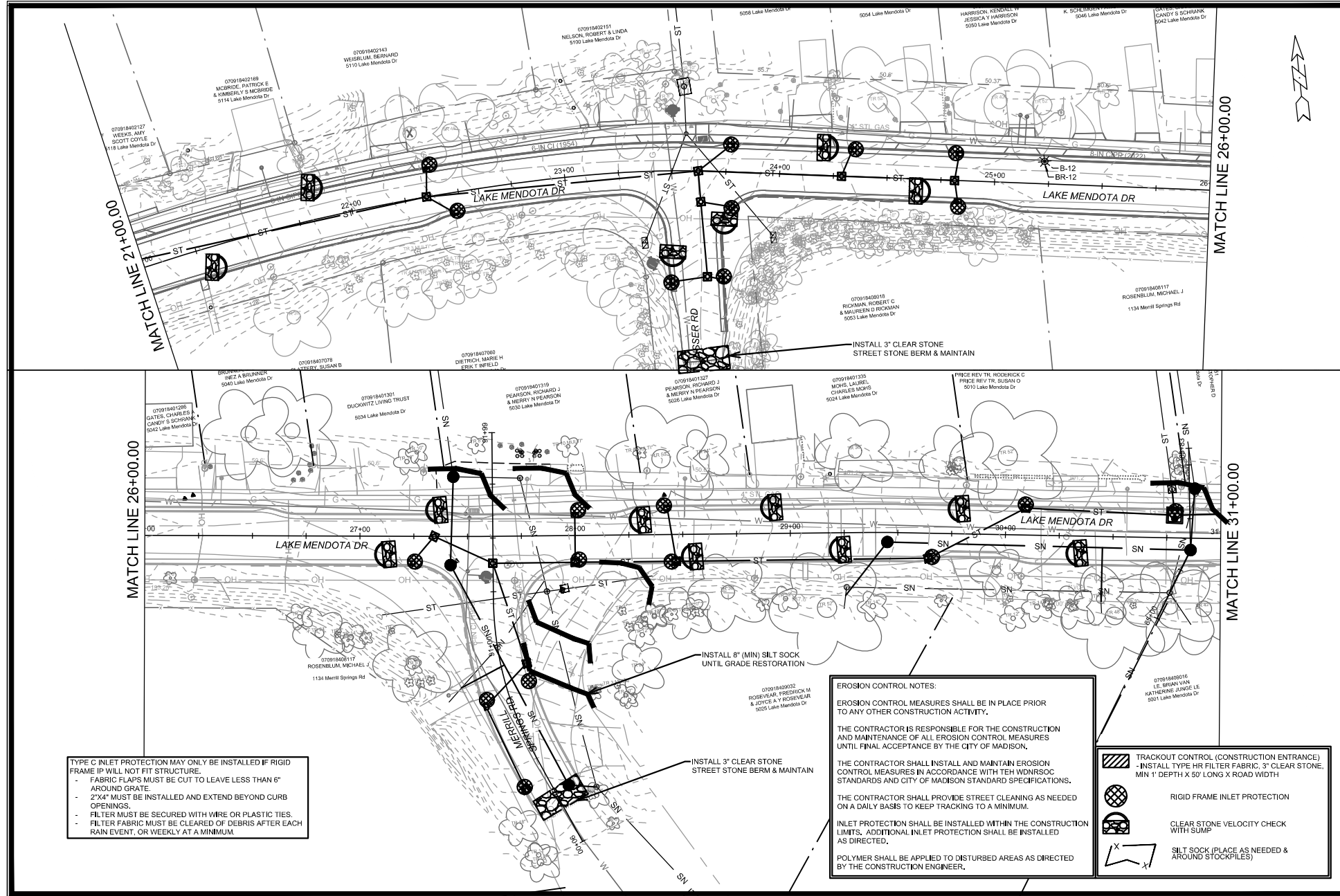
THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

- TRACKOUT CONTROL (CONSTRUCTION ENTRANCE)
 - INSTALL TYPE HR FILTER FABRIC, 3" CLEAR STONE, MIN 1" DEPTH X 50' LONG X ROAD WIDTH
- RIGID FRAME INLET PROTECTION
- CLEAR STONE VELOCITY CHECK WITH SUMP
- SILT SOCK (PLACE AS NEEDED & AROUND STOCKPILES)

PROJECT NO.	14082
CITY	MADISON, WI
CONTRACT NO.	8715
PROJECT TITLE	LAKE MENDOTA DR - EROSION CONTROL
PROJECT LOCATION	LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
DATE	14082
BY	EC-1



TYPE C INLET PROTECTION MAY ONLY BE INSTALLED IF RIGID FRAME IP WILL NOT FIT STRUCTURE.

- FABRIC FLAPS MUST BE CUT TO LEAVE LESS THAN 6" AROUND GRATE.
- 2'x4" MUST BE INSTALLED AND EXTEND BEYOND CURB OPENINGS.
- FILTER MUST BE SECURED WITH WIRE OR PLASTIC TIES.
- FILTER FABRIC MUST BE CLEARED OF DEBRIS AFTER EACH RAIN EVENT, OR WEEKLY AT A MINIMUM.

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDRSOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

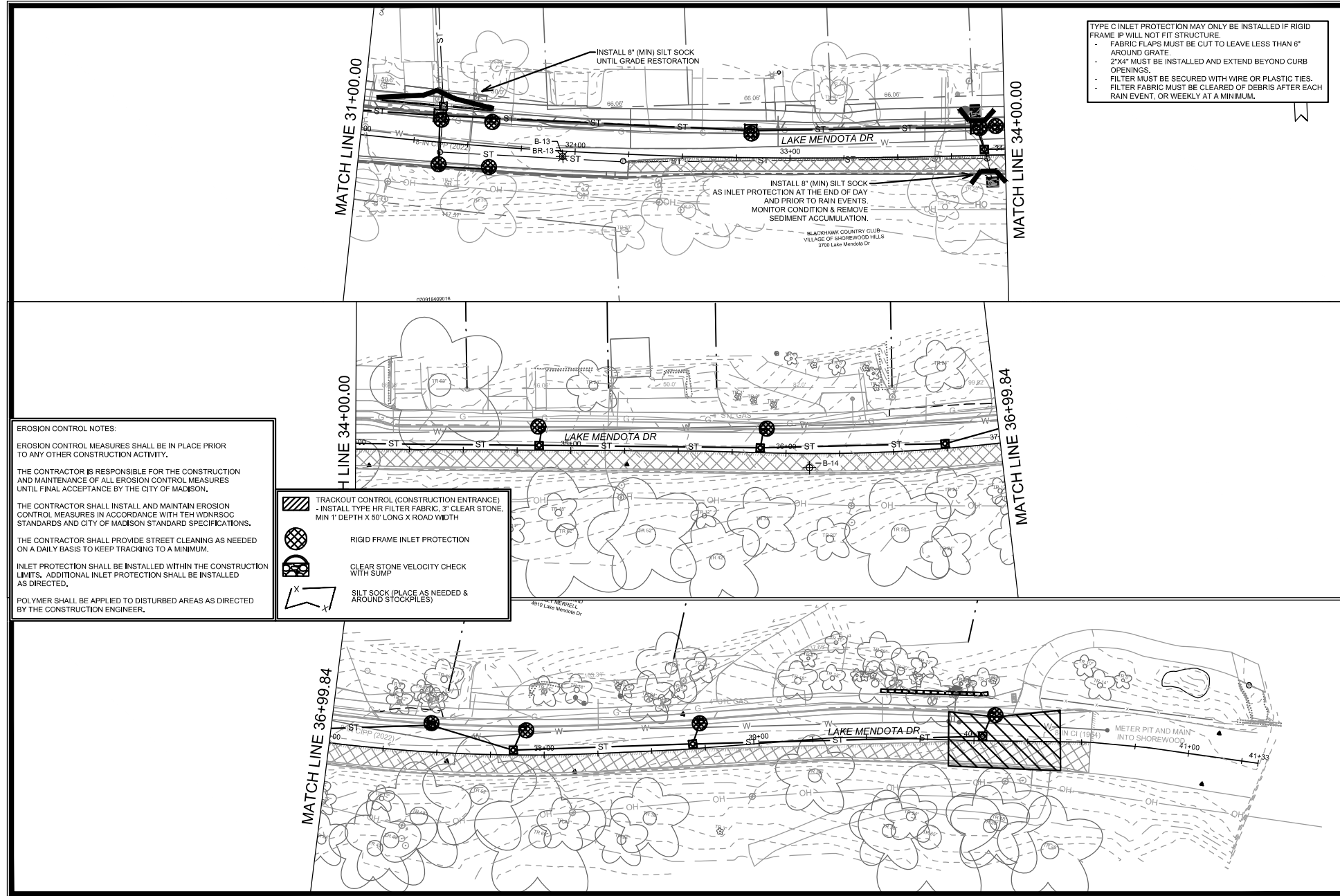
THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

	TRACKOUT CONTROL (CONSTRUCTION ENTRANCE) - INSTALL TYPE HR FILTER FABRIC, 3" CLEAR STONE, MIN 1' DEPTH X 50' LONG X ROAD WIDTH
	RIGID FRAME INLET PROTECTION
	CLEAR STONE VELOCITY CHECK WITH SLUMP
	SILT SOCK (PLACE AS NEEDED & AROUND STOCKPILES)

LAKE MENDOTA DR - EROSION CONTROL		14082
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023		MADISON, WI
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CONTRACT NO.:		EC-2



EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.





THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.


INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

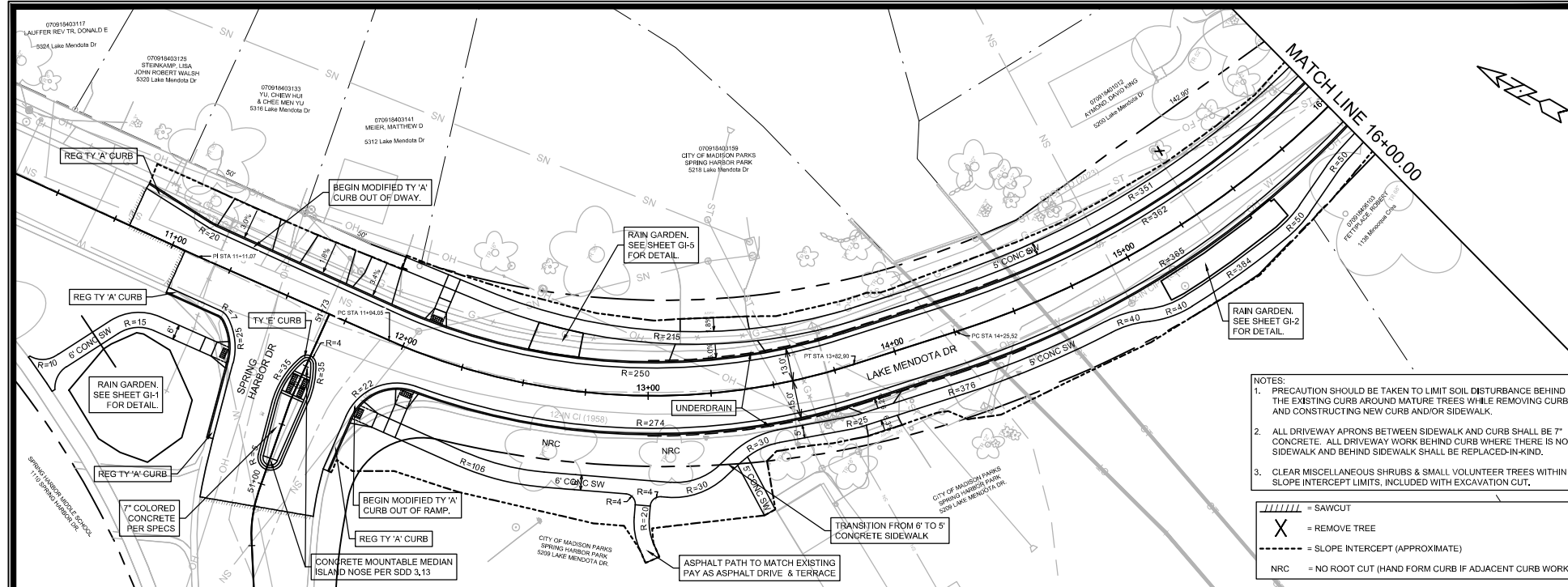
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

-  TRACKOUT CONTROL (CONSTRUCTION ENTRANCE)
- INSTALL TYPE HR FILTER FABRIC, 3" CLEAR STONE, MIN 1' DEPTH X 50' LONG X ROAD WIDTH
-  RIGID FRAME INLET PROTECTION
-  CLEAR STONE VELOCITY CHECK WITH SUMP
-  SILT SOCK (PLACE AS NEEDED & AROUND STOCKPILES)

TYPE C INLET PROTECTION MAY ONLY BE INSTALLED IF RIGID FRAME IP WILL NOT FIT STRUCTURE.

- FABRIC FLAPS MUST BE CUT TO LEAVE LESS THAN 6" AROUND GRATE.
- 2"x4" MUST BE INSTALLED AND EXTEND BEYOND CURB OPENINGS.
- FILTER MUST BE SECURED WITH WIRE OR PLASTIC TIES.
- FILTER FABRIC MUST BE CLEARED OF DEBRIS AFTER EACH RAIN EVENT, OR WEEKLY AT A MINIMUM.

	
14082 EC-3	
LAKE MENDOTA DR - EROSION CONTROL LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023	
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14082 MADISON, WI	8715 CONTRACT NO.:
14082 EC-3	14082 EC-3



NOTES:

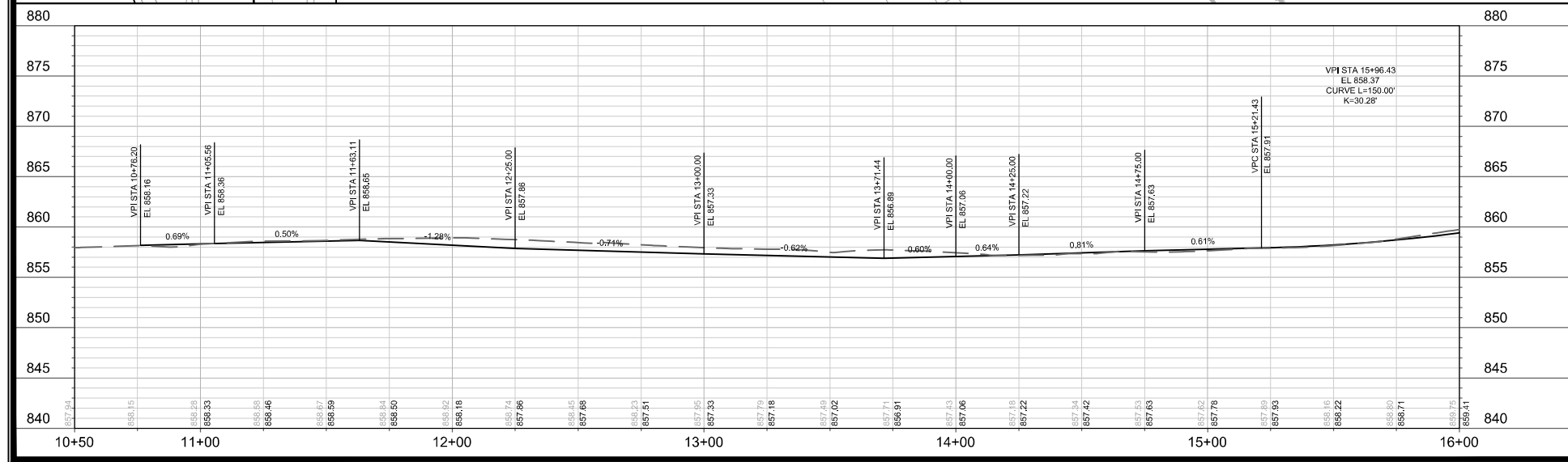
1. PRECAUTION SHOULD BE TAKEN TO LIMIT SOIL DISTURBANCE BEHIND THE EXISTING CURB AROUND MATURE TREES WHILE REMOVING CURB AND CONSTRUCTING NEW CURB AND/OR SIDEWALK.
2. ALL DRIVEWAY APRONS BETWEEN SIDEWALK AND CURB SHALL BE 7" CONCRETE. ALL DRIVEWAY WORK BEHIND CURB WHERE THERE IS NO SIDEWALK AND BEHIND SIDEWALK SHALL BE REPLACED-IN-KIND.
3. CLEAR MISCELLANEOUS SHRUBS & SMALL VOLUNTEER TREES WITHIN SLOPE INTERCEPT LIMITS, INCLUDED WITH EXCAVATION CUT.

/////// = SAWCUT

X = REMOVE TREE

----- = SLOPE INTERCEPT (APPROXIMATE)

NRC = NO ROOT CUT (HAND FORM CURB IF ADJACENT CURB WORK)



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CONTRACT NO.

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MADISON, WI

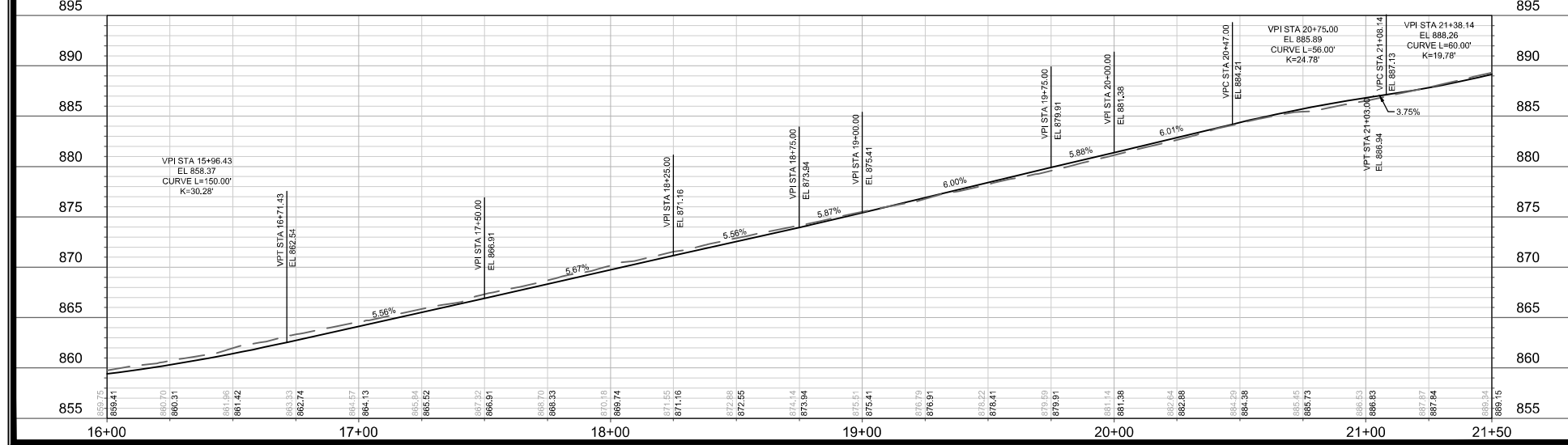
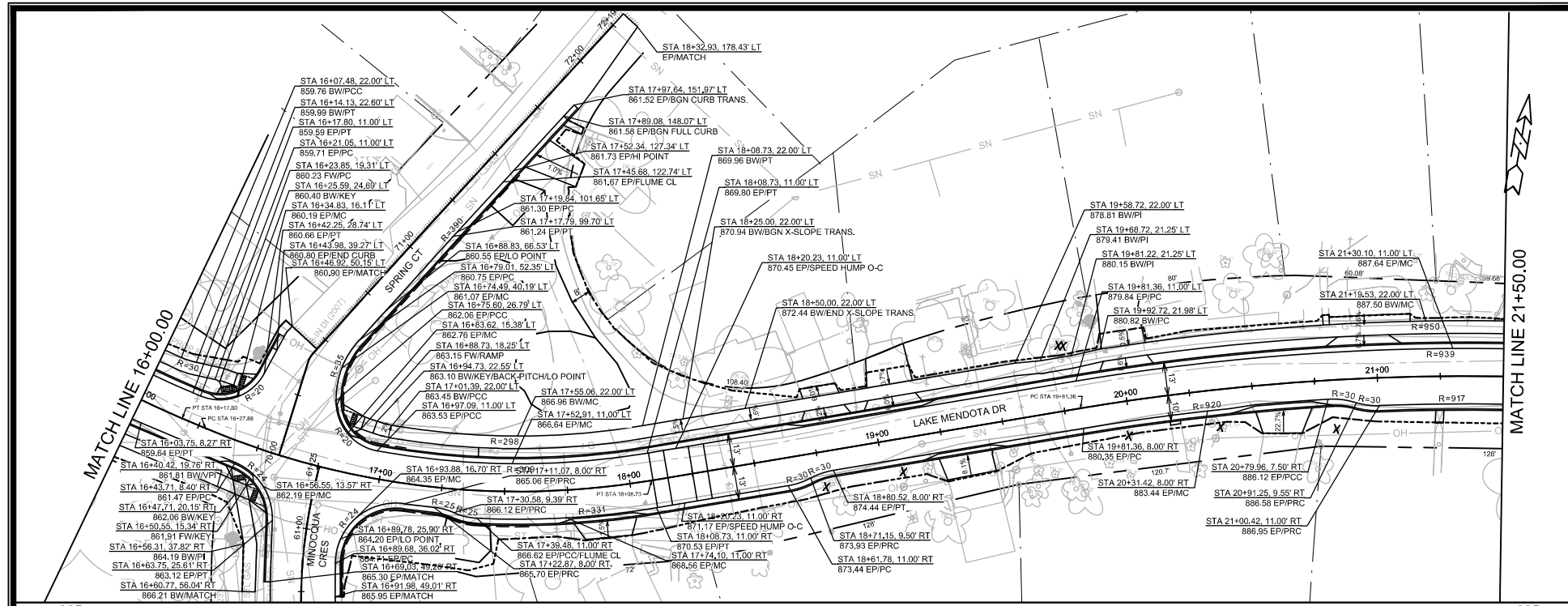
LAKE MENDOTA DRIVE - PLAN & PROFILE

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

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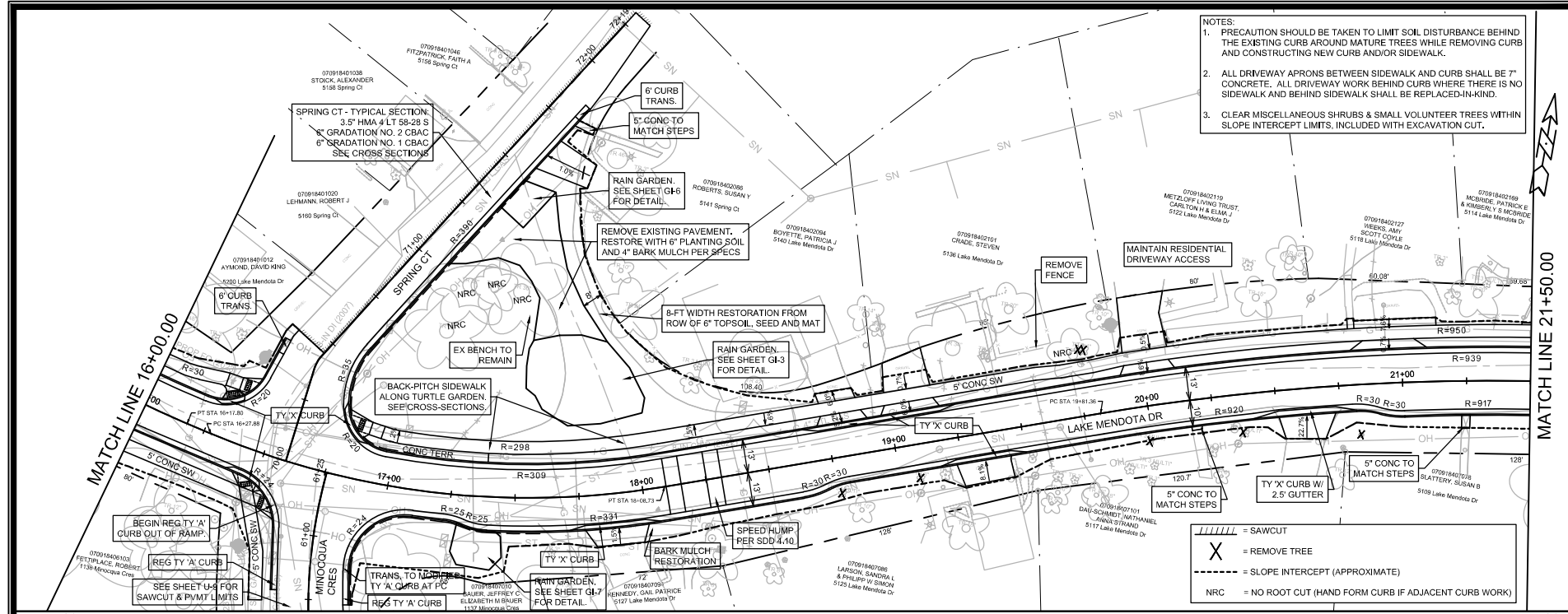


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 MADISON, WI
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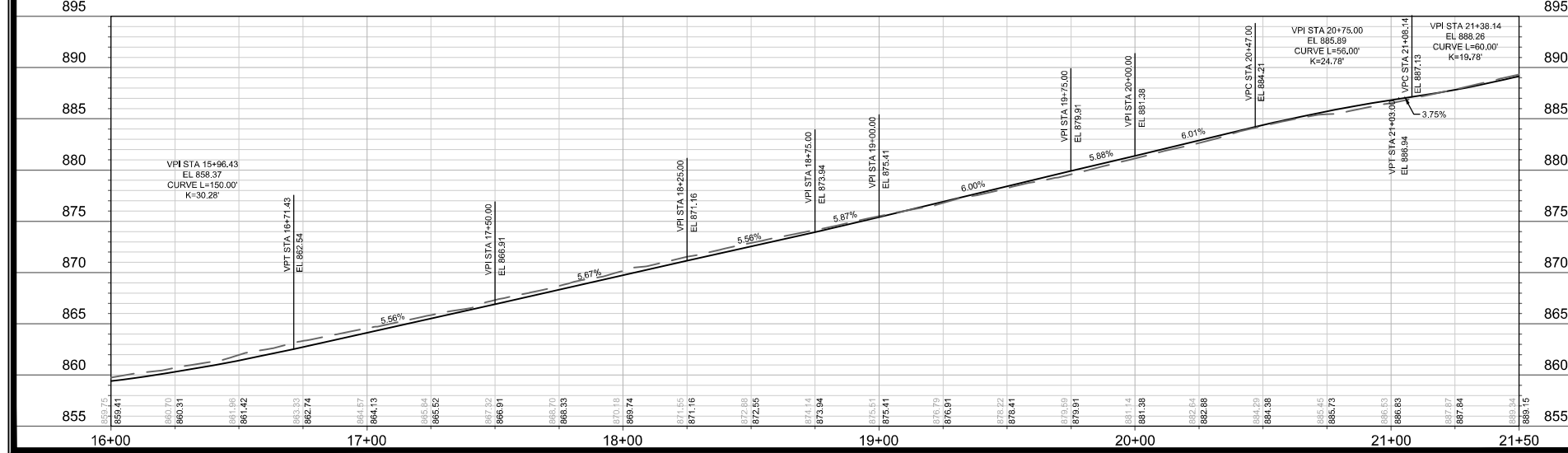
LAKE MENDOTA DRIVE - PLAN & PROFILE
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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NOTES:
 1. PRECAUTION SHOULD BE TAKEN TO LIMIT SOIL DISTURBANCE BEHIND THE EXISTING CURB AROUND MATURE TREES WHILE REMOVING CURB AND CONSTRUCTING NEW CURB AND/OR SIDEWALK.
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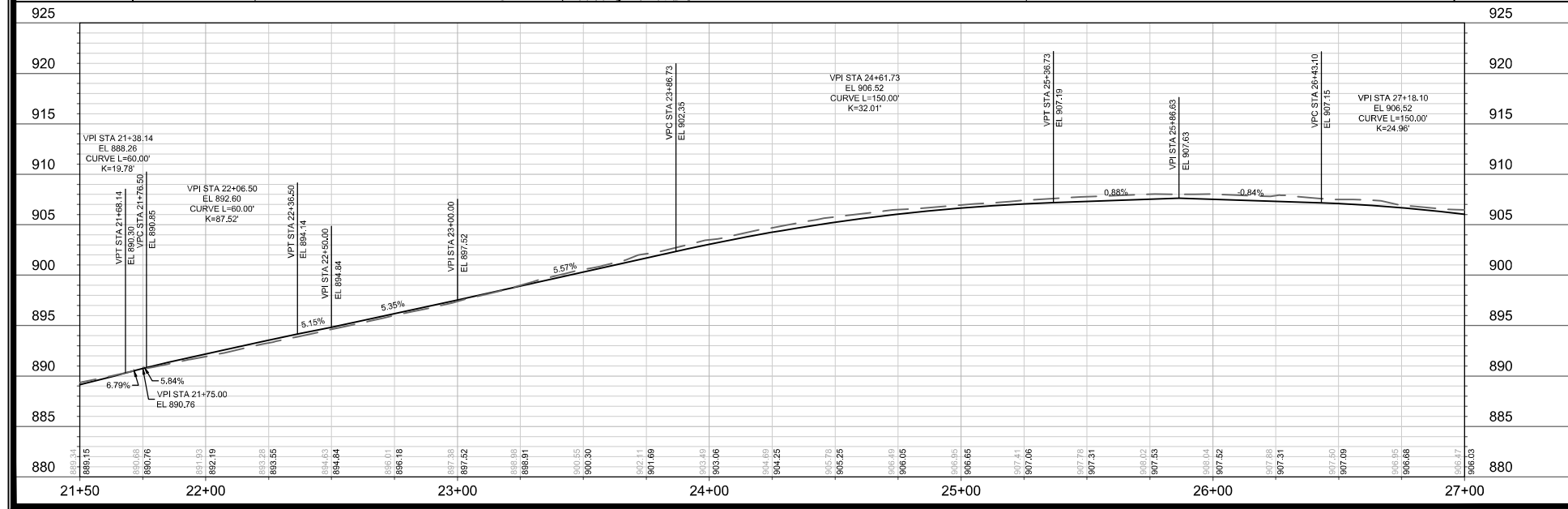
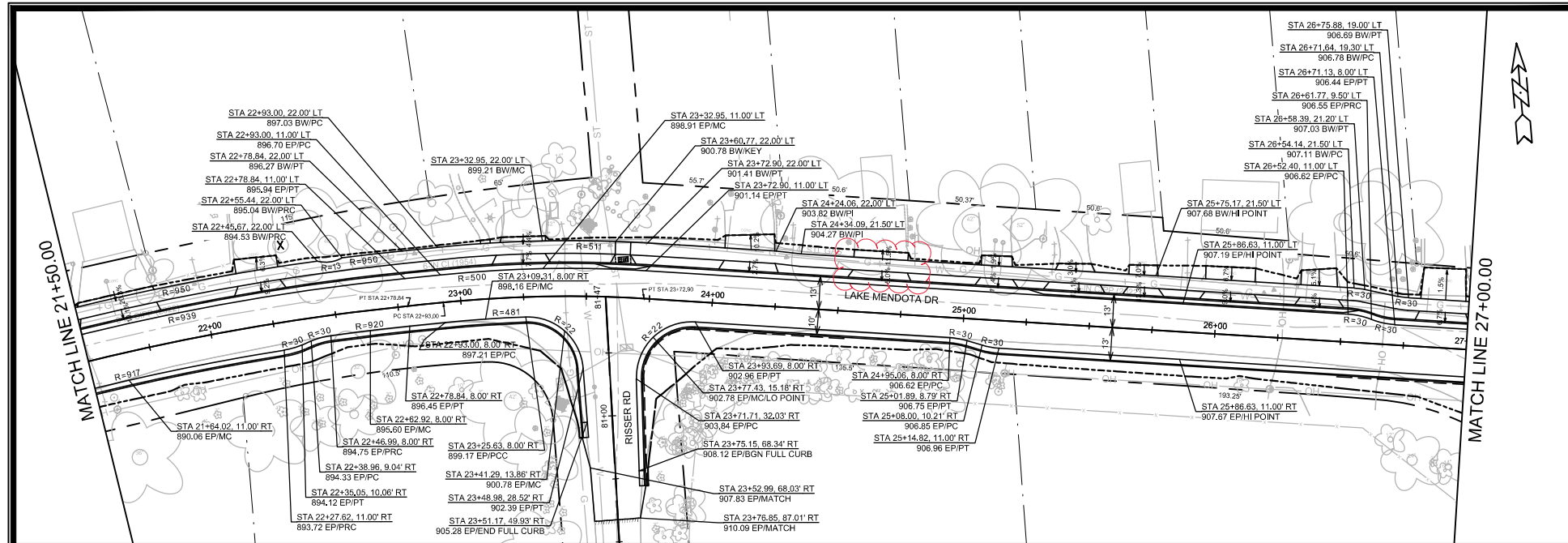
= SAWCUT
 = REMOVE TREE
 = SLOPE INTERCEPT (APPROXIMATE)
 NRC = NO ROOT CUT (HAND FORM CURB IF ADJACENT CURB WORK)



MATCH LINE 16+00.00 MATCH LINE 21+50.00

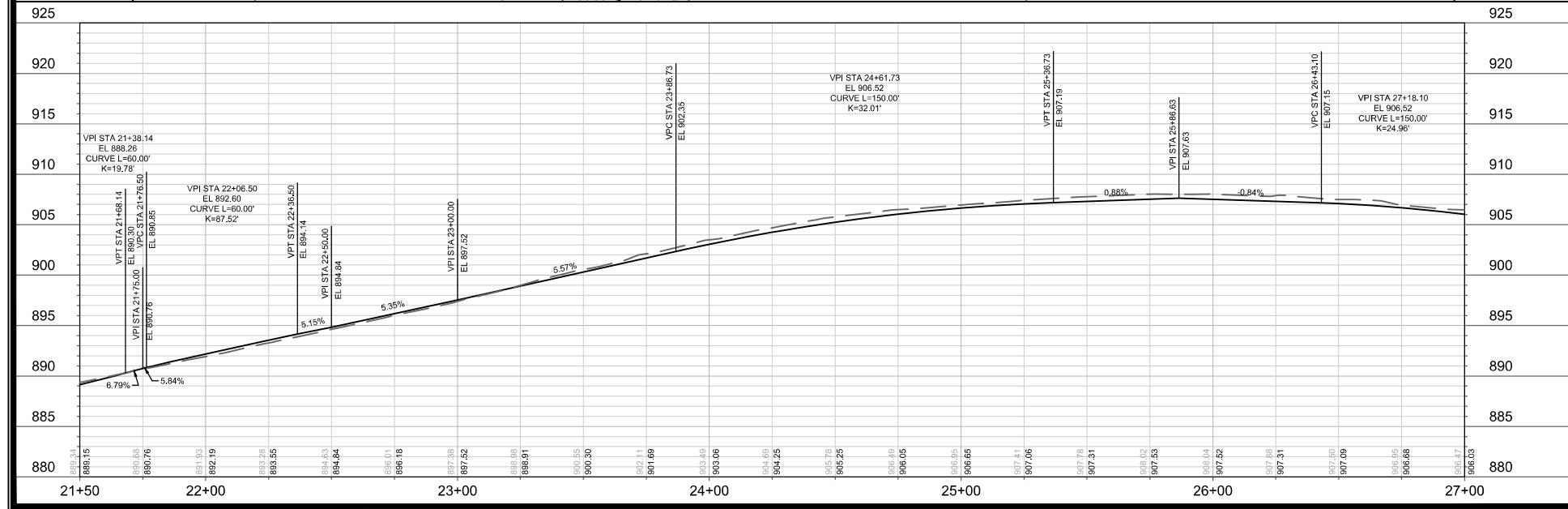
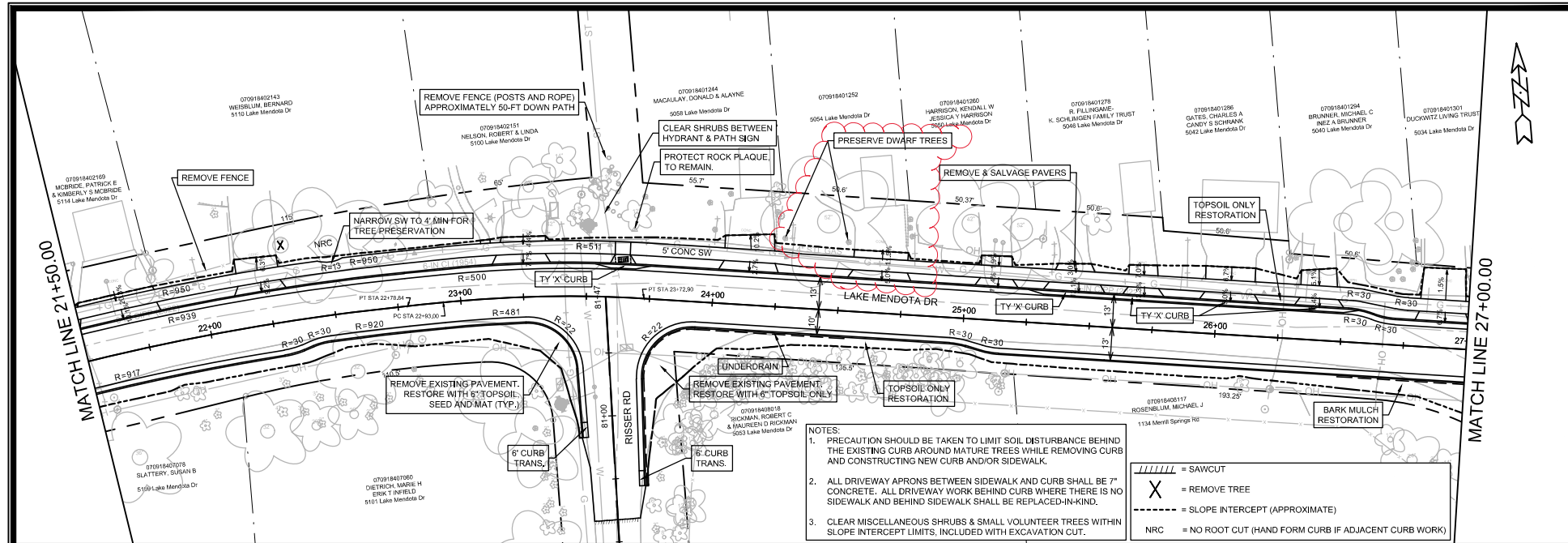
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 CONTRACT NO. 8715
 LAKE MENDOTA DRIVE - PLAN & PROFILE
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

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CONTRACT NO.

14082

MADISON, WI

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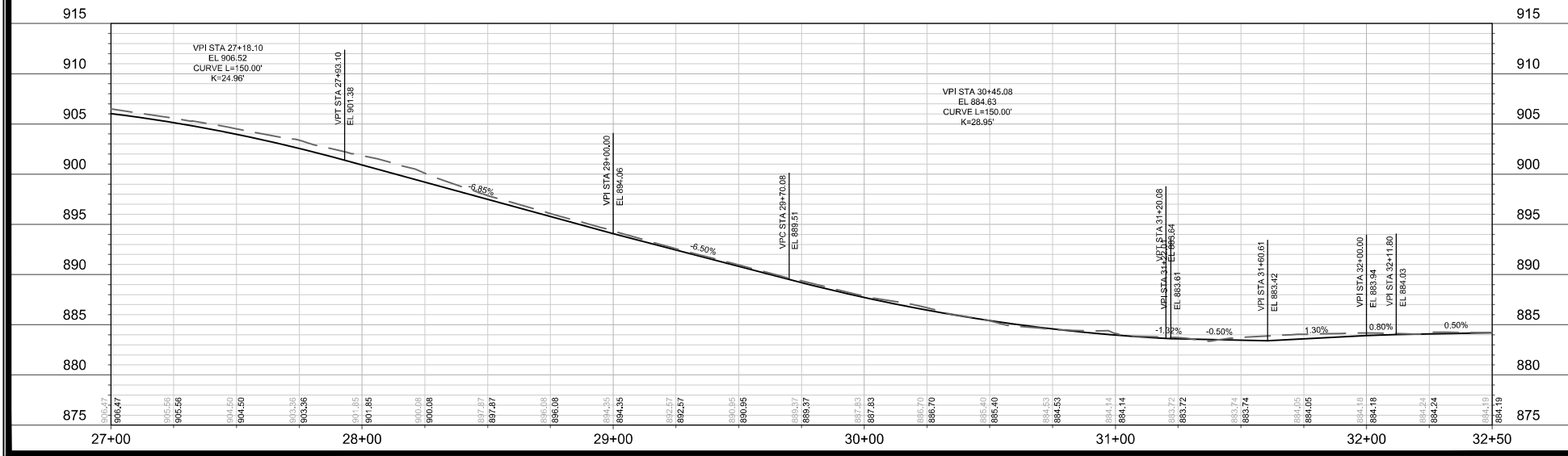
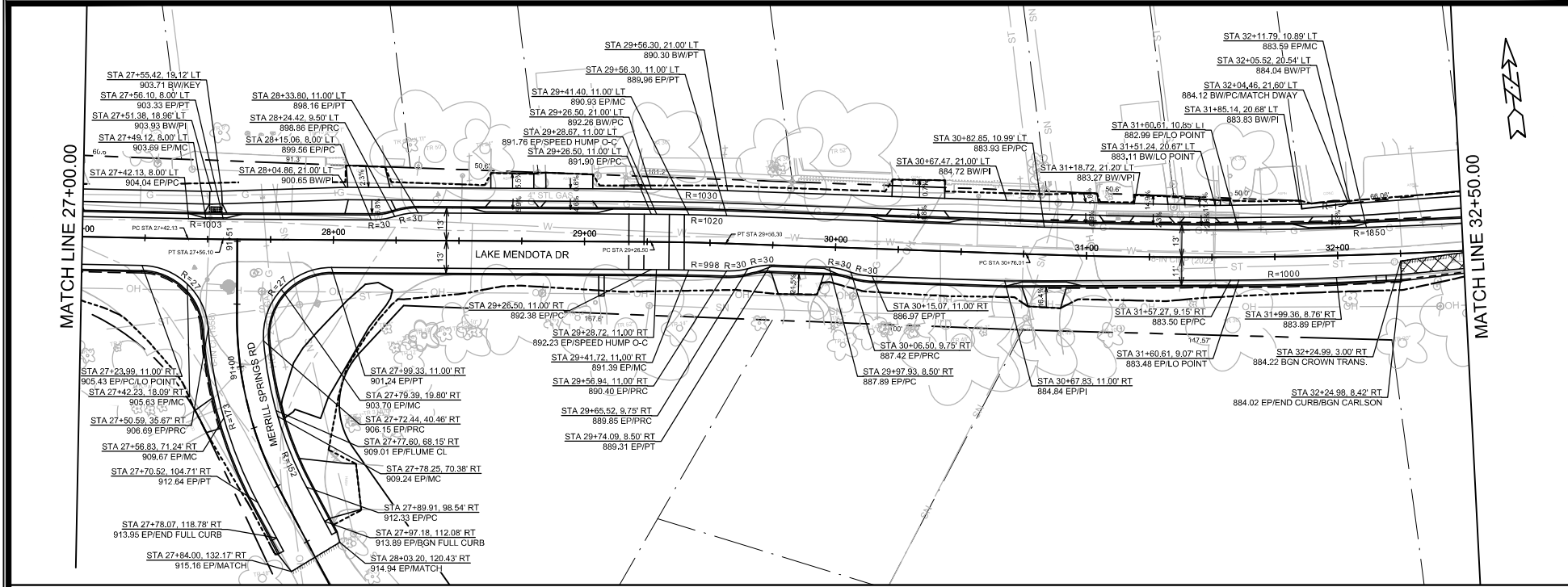
LAKE MENDOTA DRIVE - PLAN & PROFILE

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

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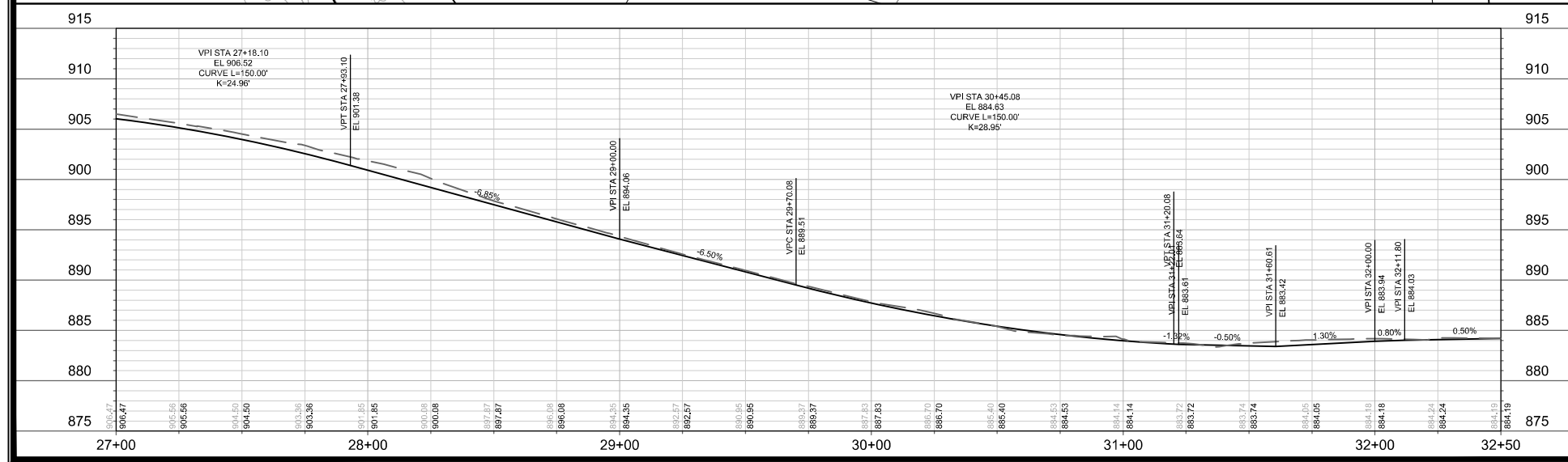
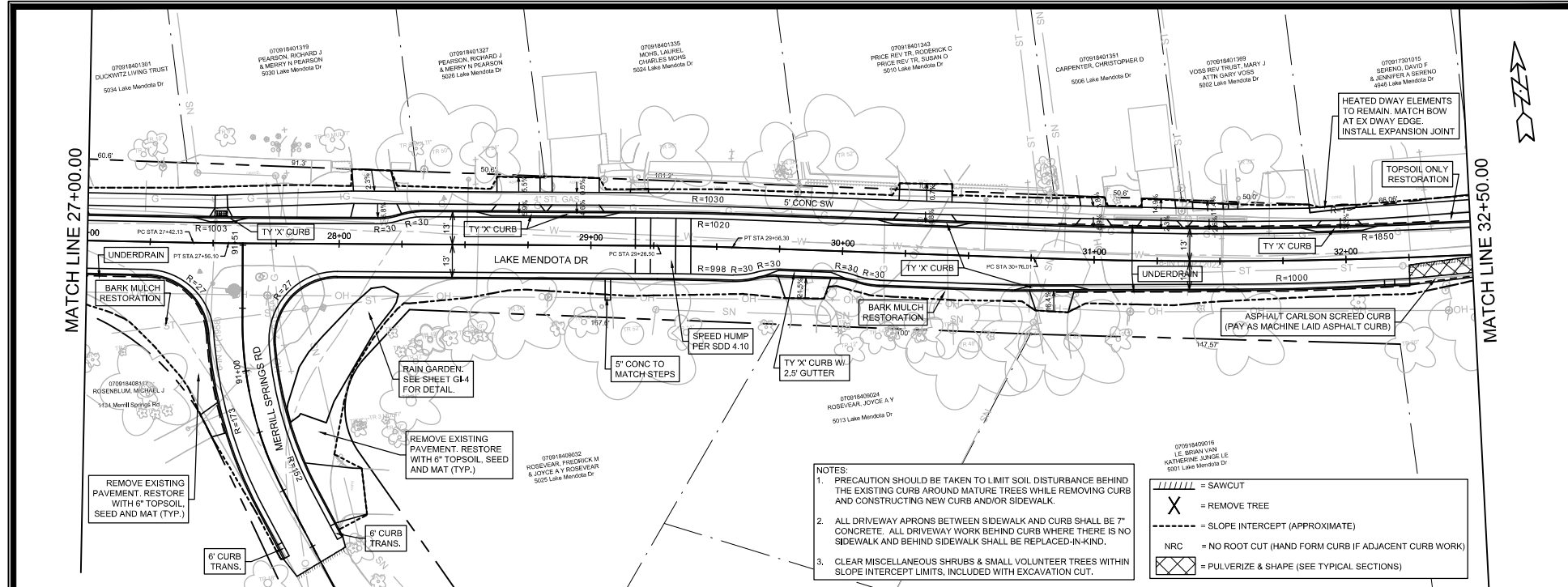
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LAKE MENDOTA DRIVE - PLAN & PROFILE
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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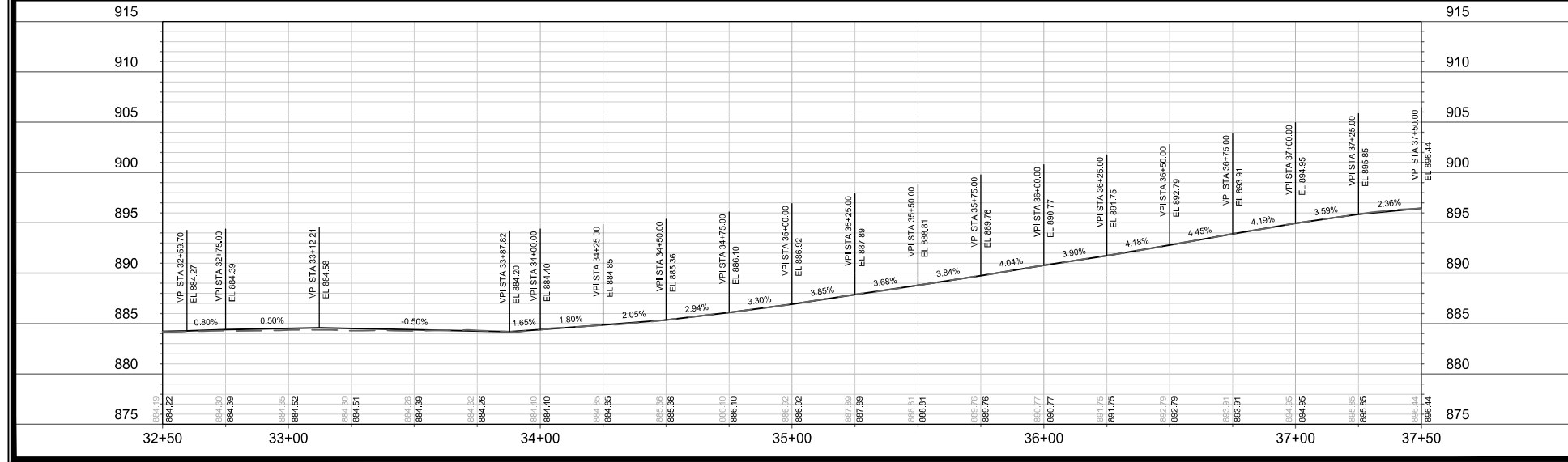
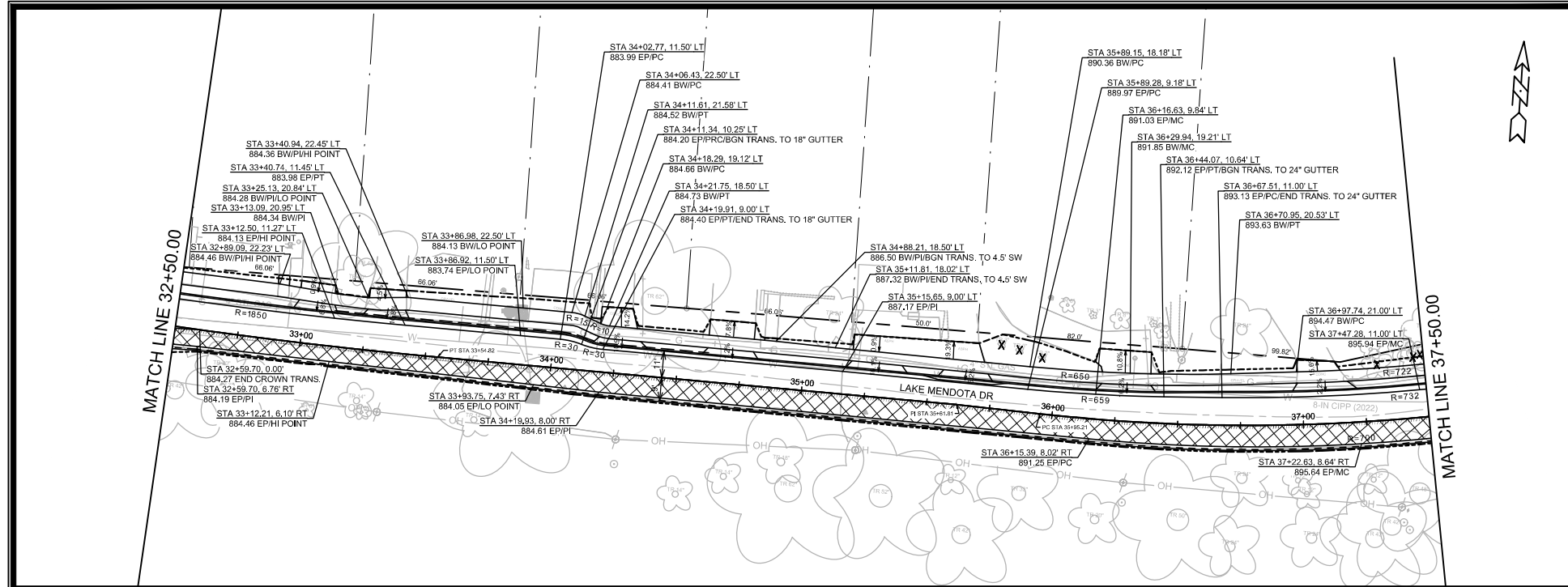


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MADISON, WI
CONTRACT NO. 8715

LAKE MENDOTA DRIVE - PLAN & PROFILE
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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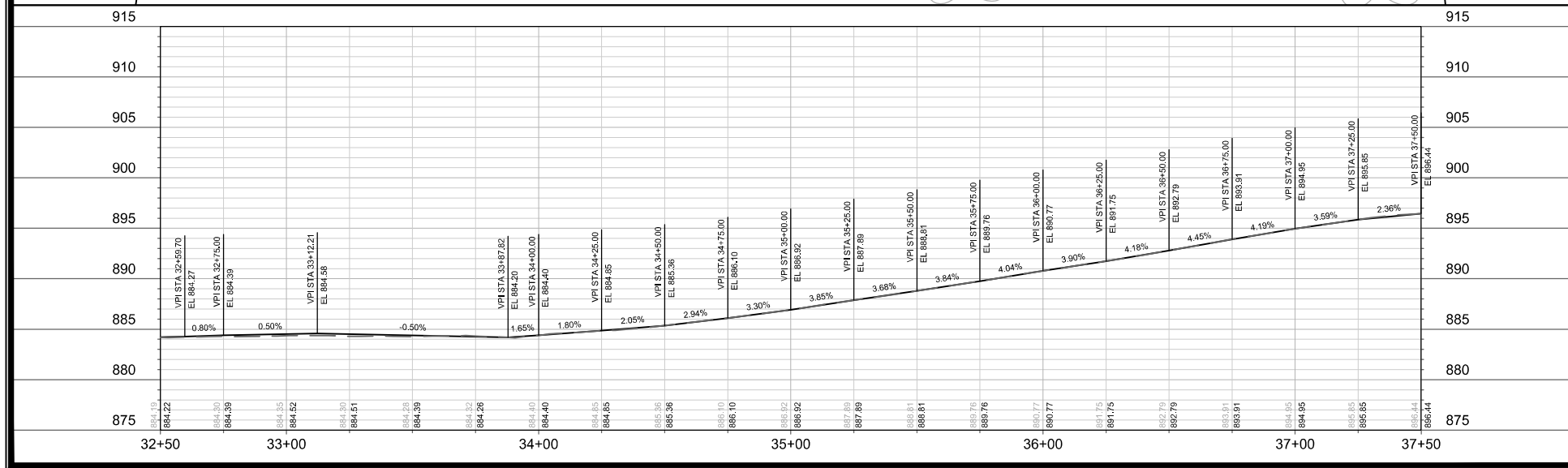
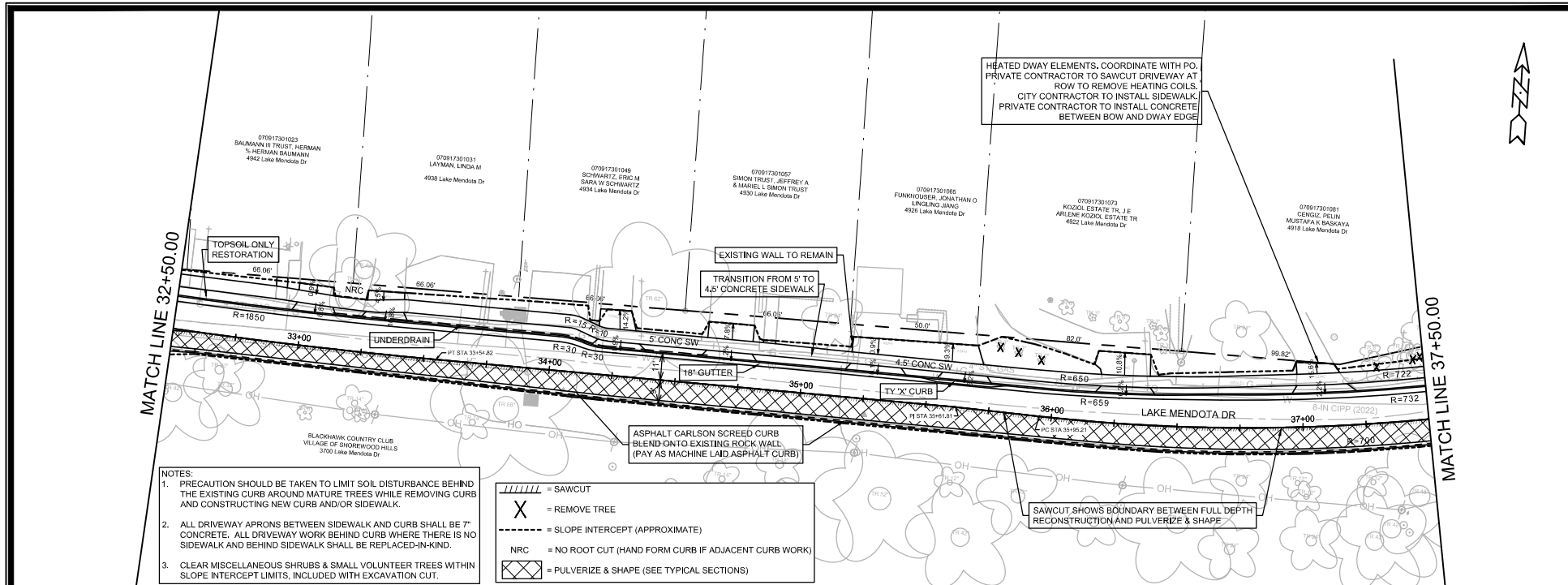


LAKE MENDOTA DRIVE - PLAN & PROFILE
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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MADISON, WI

CONTRACT NO. 8715

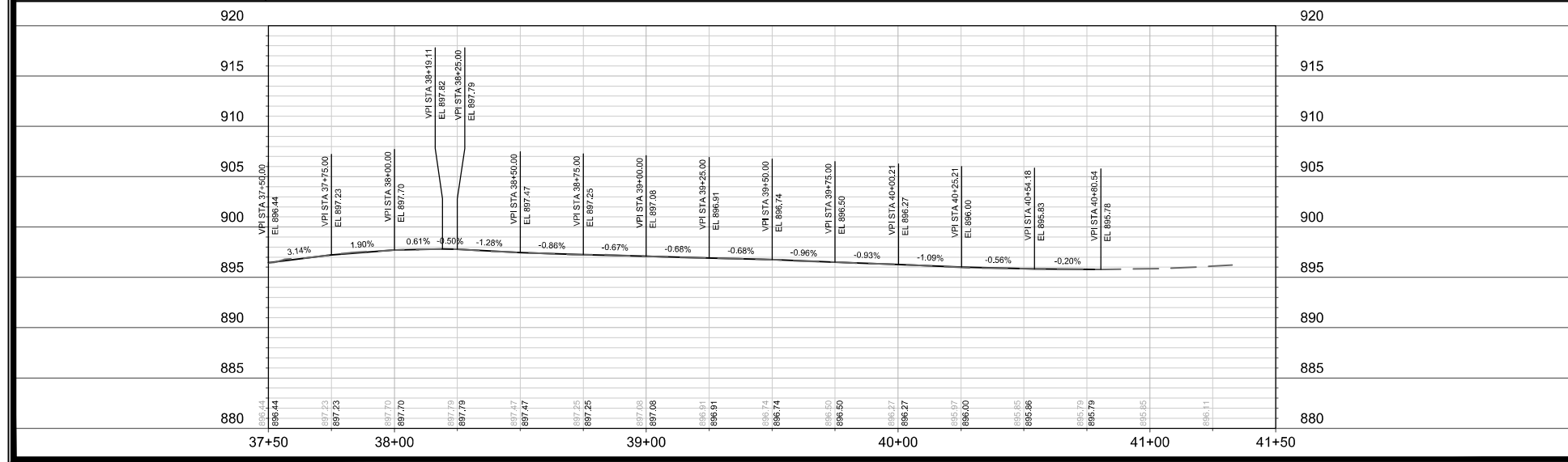
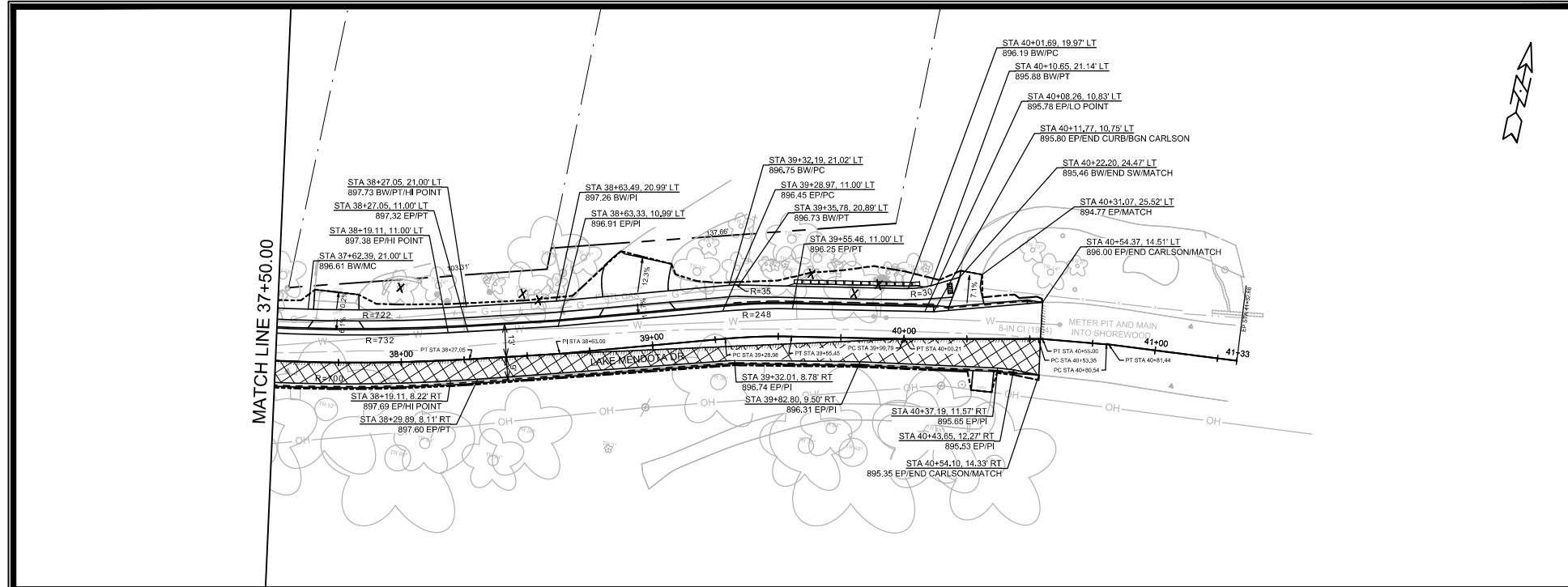
LAKE MENDOTA DRIVE - PLAN & PROFILE

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

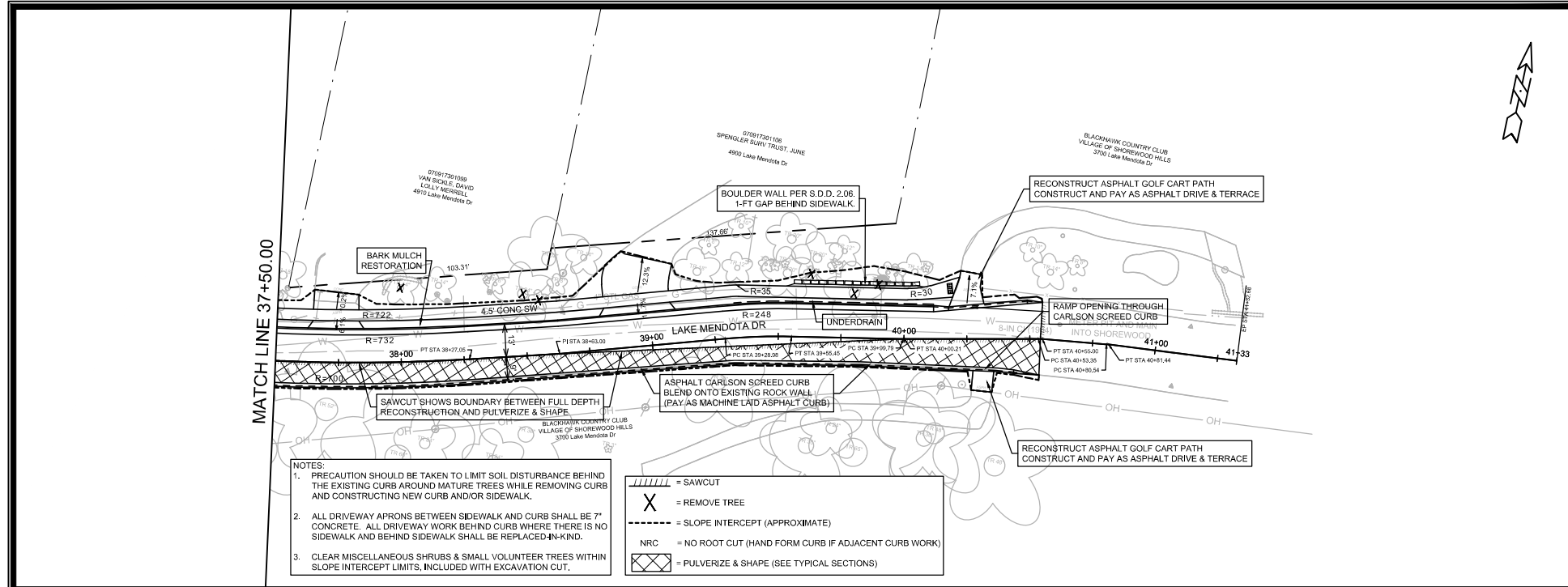
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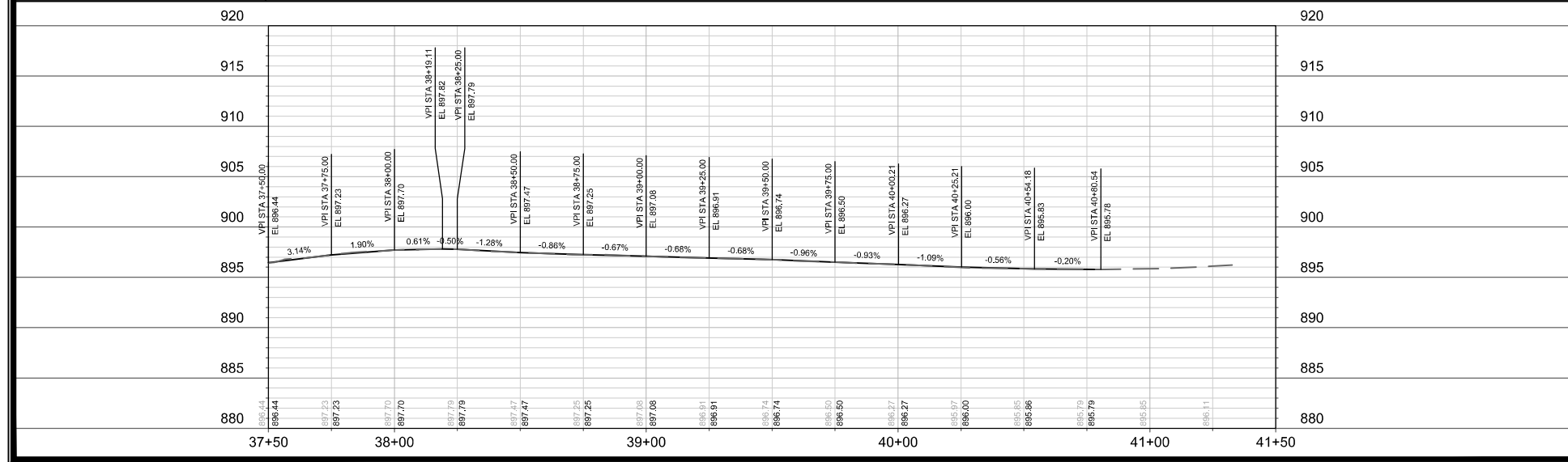



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 CONTRACT NO. 8715
 LAKEMENDOTA DRIVE - PLAN & PROFILE
 LAKEMENDOTA DR ASSESSMENT DISTRICT - 2023
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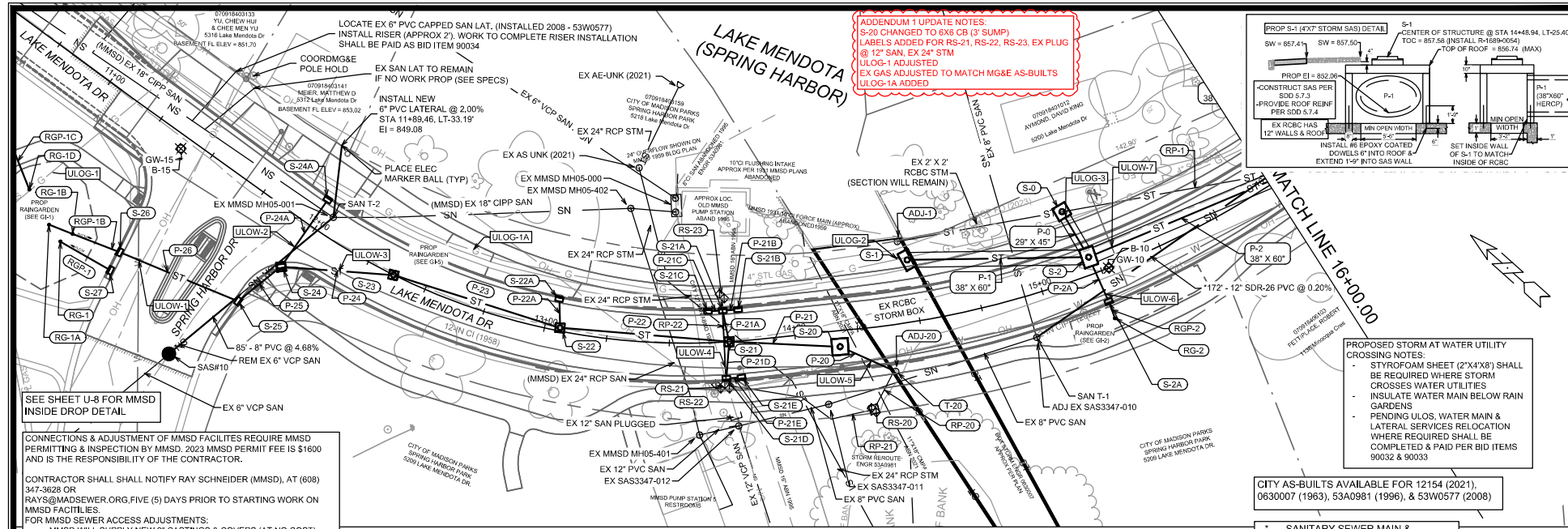


MATCH LINE 37+50.00

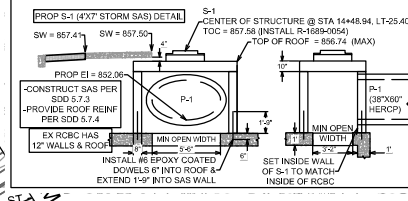
- NOTES:**
1. PRECAUTION SHOULD BE TAKEN TO LIMIT SOIL DISTURBANCE BEHIND THE EXISTING CURB AROUND MATURE TREES WHILE REMOVING CURB AND CONSTRUCTING NEW CURB AND/OR SIDEWALK.
 2. ALL DRIVEWAY APRONS BETWEEN SIDEWALK AND CURB SHALL BE 7" CONCRETE. ALL DRIVEWAY WORK BEHIND CURB WHERE THERE IS NO SIDEWALK AND BEHIND SIDEWALK SHALL BE REPLACED IN-KIND.
 3. CLEAR MISCELLANEOUS SHRUBS & SMALL VOLUNTEER TREES WITHIN SLOPE INTERCEPT LIMITS, INCLUDED WITH EXCAVATION CUT.
- LEGEND:**
- //// = SAWCUT
 - X = REMOVE TREE
 - - - - = SLOPE INTERCEPT (APPROXIMATE)
 - NRC = NO ROOT CUT (HAND FORM CURB IF ADJACENT CURB WORK)
 - XXXX = PULVERIZE & SHAPE (SEE TYPICAL SECTIONS)



LAKE MENDOTA DRIVE - PLAN & PROFILE LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023 <small>M:\DESIGN\Projects\14082\CAD\Streets\14082EN-PIP.dwg</small>	14082 MADISON, WI 8715 CONTRACT NO.:
	14082 P-6(+) <small>DATE: 11/15/23 BY: JMM</small> <small>REVISION: 10/27/2023, 8/22/23</small> <small>MARK: 14082</small>



ADDENDUM 1 UPDATE NOTES:
 S-20 CHANGED TO 6X6 CB (3' SUMP)
 LABELS ADDED FOR RS-21, RS-22, RS-23, EX PLUG @ 12\"/>



PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
 - STYROFOAM SHEET (2'X4'X3') SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

CITY AS-BUILTS AVAILABLE FOR 12154 (2021), 0630007 (1963), 53A0981 (1996), & 53W0577 (2008)

SANITARY SEWER MAIN & LATERALS SHALL CONFORM TO ASTM D3034 SPECS FOR SDR-26

CONNECTIONS & ADJUSTMENT OF MMSD FACILITIES REQUIRE MMSD PERMITTING & INSPECTION BY MMSD. 2023 MMSD PERMIT FEE IS \$1600 AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR SHALL NOTIFY RAY SCHNEIDER (MMSD), AT (608) 347-3628 OR RAY.SCHNEIDER@MMSD.ORG FIVE (5) DAYS PRIOR TO STARTING WORK ON MMSD FACILITIES.

FOR MMSD SEWER ACCESS ADJUSTMENTS:

- MMSD WILL SUPPLY NEW S' CASTINGS & COVERS (AT NO COST)
- CITY OF MADISON CONTRACTOR SHALL COMPLETE WORK TO ADJUST & INSTALL CASTINGS
- CUT/REMOVE BARREL SEC AND/OR ADJUSTMENT RINGS DOWN TO FLAT TOP DECK
- ADD ADJUSTMENT RINGS (PRO-RING OR EQUAL) TO PROPOSED T/O

MMSD SHALL CONTRACT REPAIRS TO SEWER ACCESS LINING SYSTEMS AT A LATER DATE

FOR CONNECTIONS TO MMSD SEWER:

- FIELD CORE NEW CONNECTIONS FOR BOOT CONNECTION WHERE REQUIRED
- PROVIDE & INSTALL KOR-N-SEAL BOOT FOR CONNECTIONS (PAID AS INCIDENTAL TO TAP)

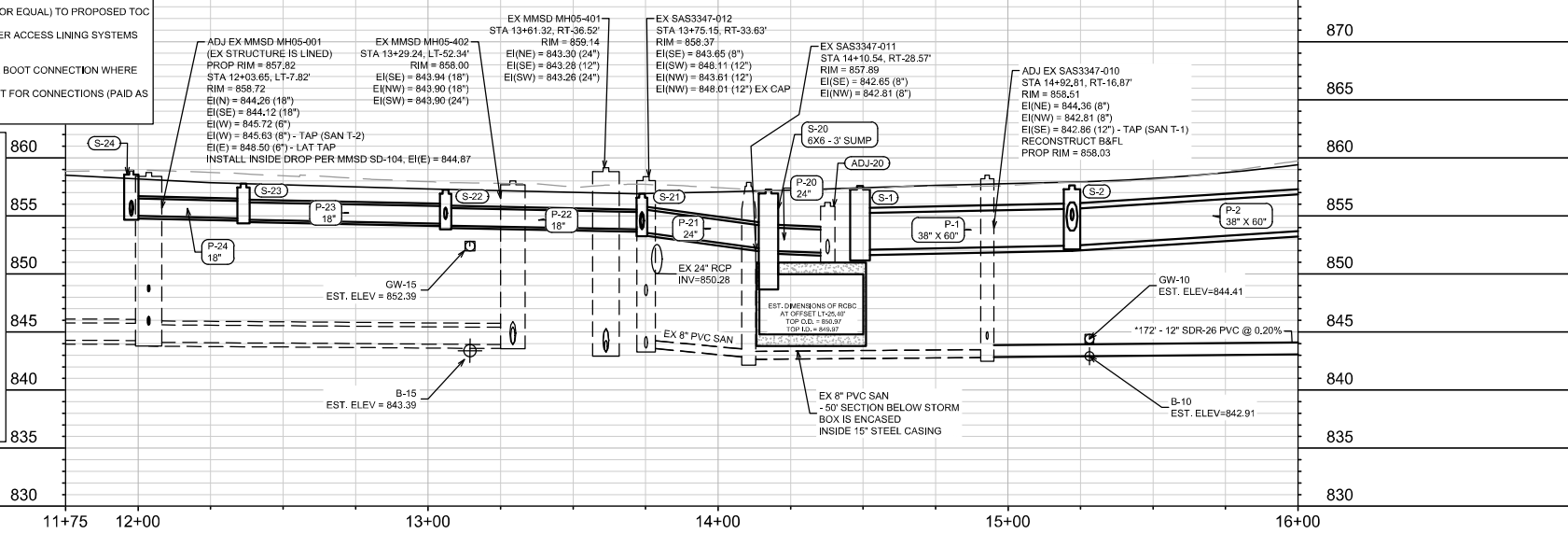
NEW SANITARY LATERALS SHOWN FOR:

- 5312 LAKE MENDOTA DR (U1 & U8)
- 1134 MINOCQUA CRES (U10)
- 1137 MINOCQUA CRES (U2 & U10)
- 1138 MINOCQUA CRES (U2 & U10)
- 5141 SPRING CT (U10)
- 5117 LAKE MENDOTA DR (U2)
- 5122 LAKE MENDOTA DR (U2)
- 5125 LAKE MENDOTA DR (U2 & U10)
- 5127 LAKE MENDOTA DR (U2 & U10)
- 5136 LAKE MENDOTA DR (U2)
- 5140 LAKE MENDOTA DR (U2 & U10)
- 1134 MERRILL SPRINGS RD (U4)
- 5013 LAKE MENDOTA DR (U4 & U13)
- 5025 LAKE MENDOTA DR (U4 & U13)

ADJUST LATERAL WITH RISER AT ROW: 5316 LAKE MENDOTA DR (RISER ONLY) (U1 & U8)

INSTALL CAPPED WYE & ELEC MARKER BALL:

- 5200 LAKE MENDOTA DR (U-10)
- 5160 SPRING CT (U-10)
- 5158 SPRING CT (U-10)
- 5156 SPRING CT (U-10)



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CONTRACT NO.

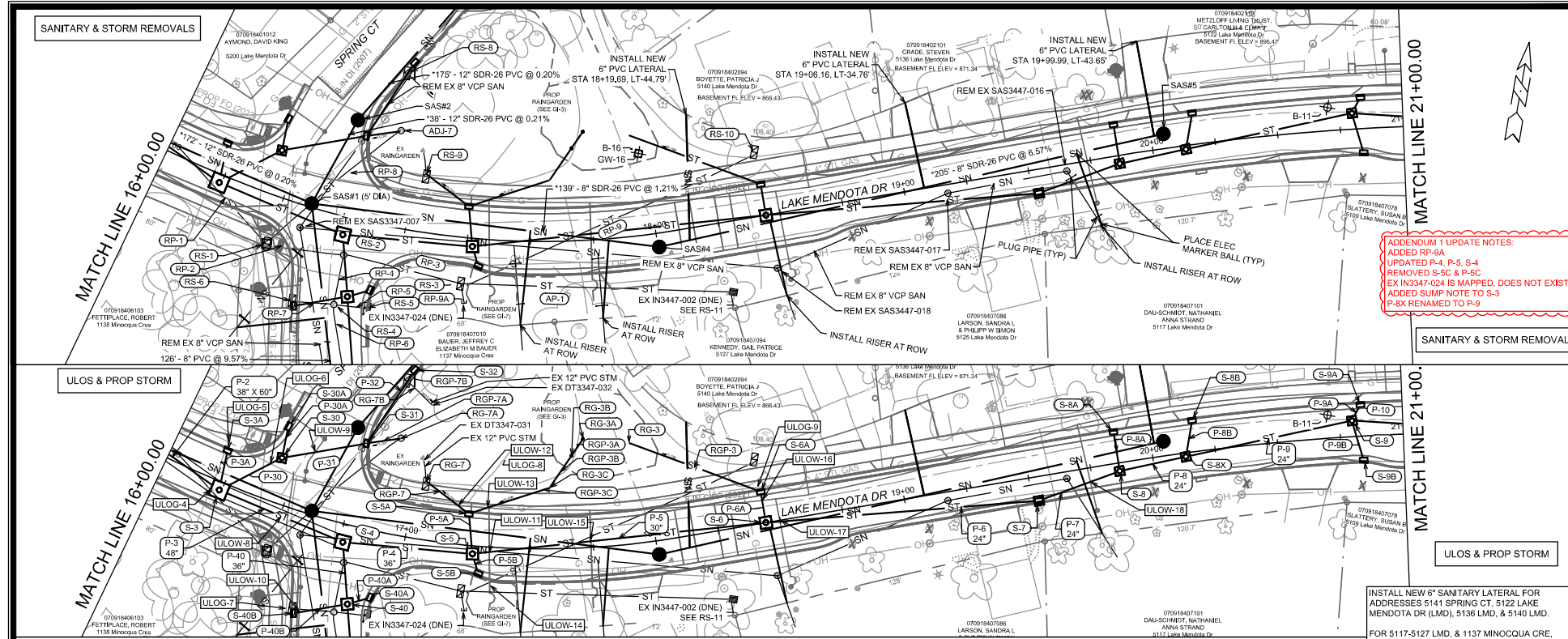
LAKE MENDOTA DR - SEWER PLAN & PROFILE

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

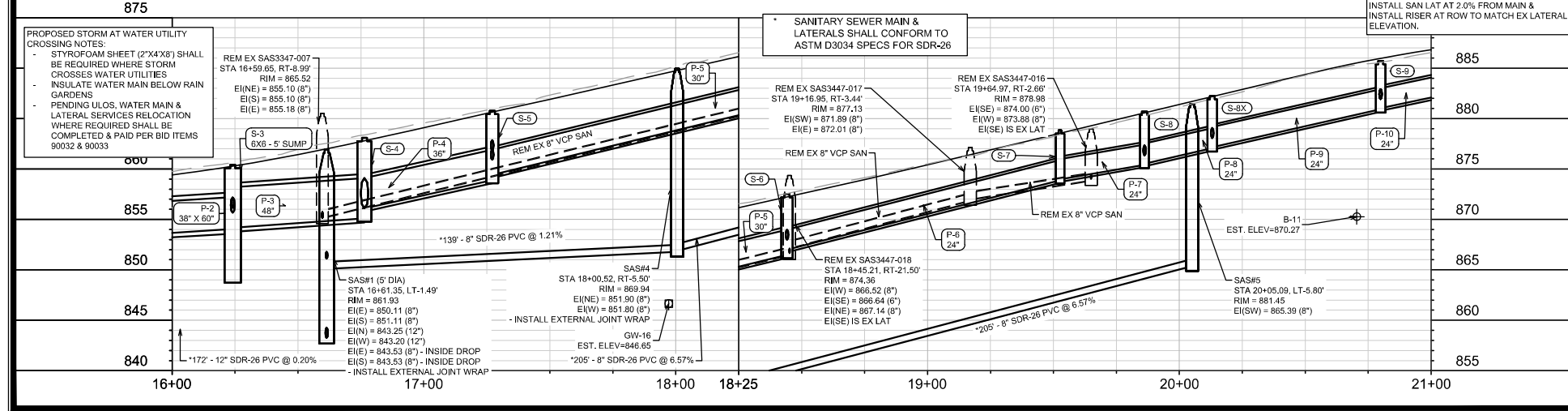
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14082

U-1



ADDENDUM 1 UPDATE NOTES:
 ADDED RP-9A
 UPDATED P-4, P-5, S-4
 REMOVED S-5C & P-5C
 EX IN347-024 IS MAPPED, DOES NOT EXIST
 ADDED SLUMP NOTE TO S-3
 P-8X RENAMED TO P-9

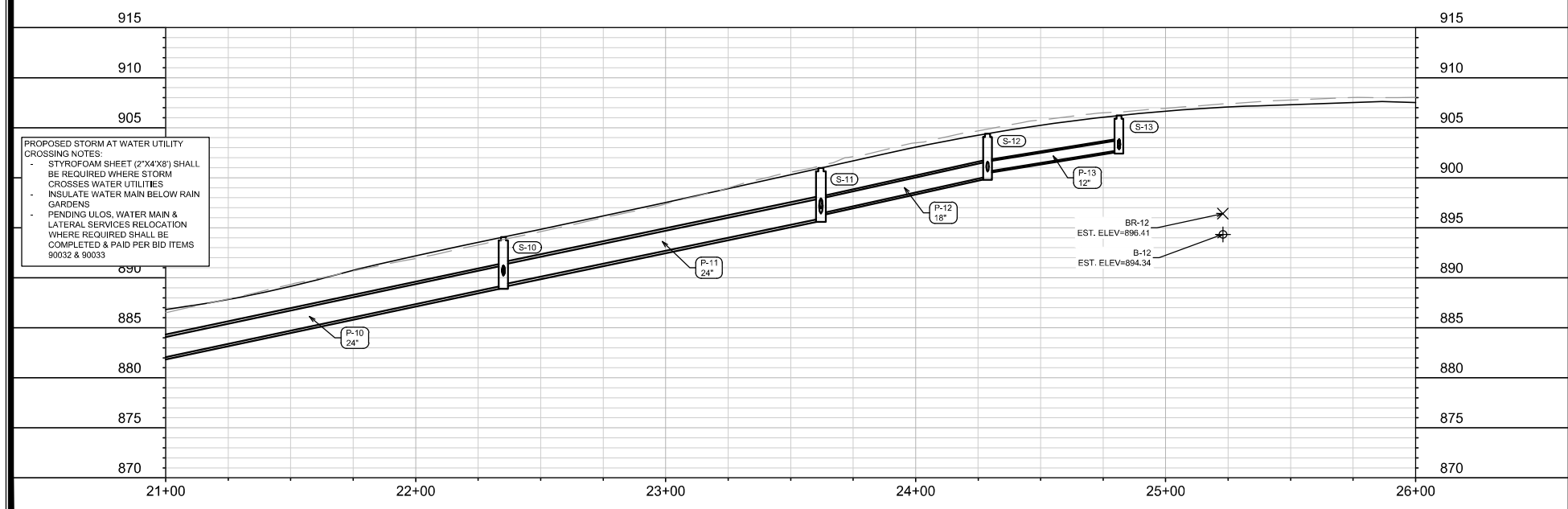
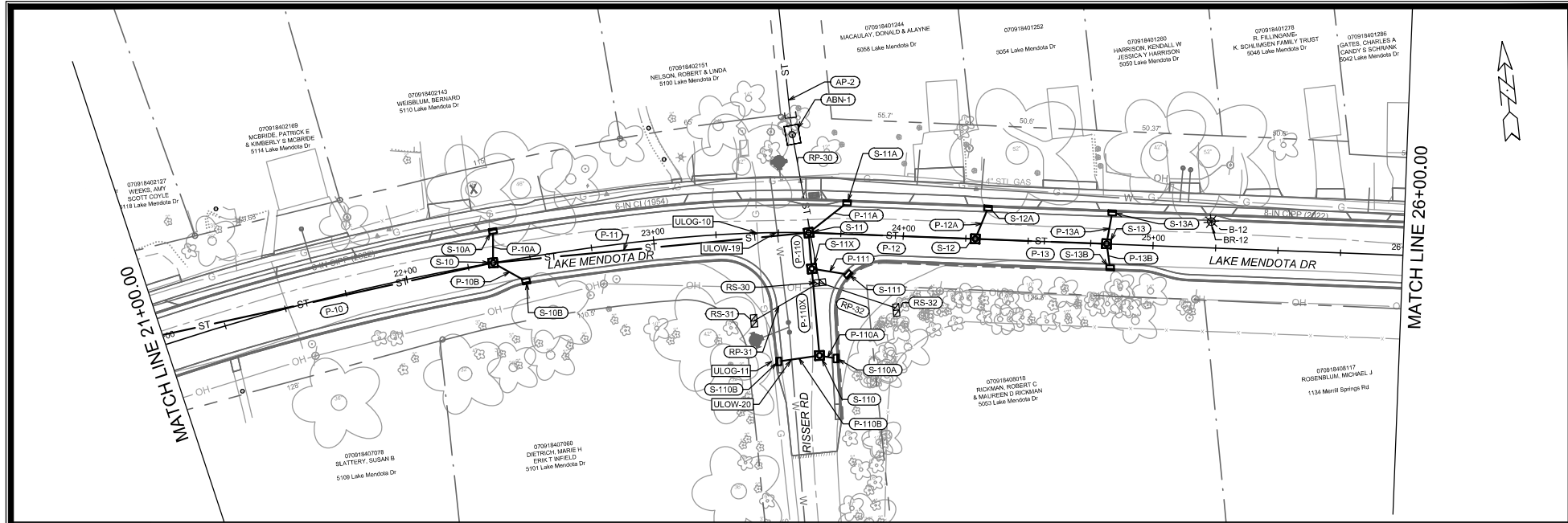


PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
 - STYROFOAM SHEET (2'X4'X8") SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

SANITARY SEWER MAIN & LATERALS SHALL CONFORM TO ASTM D3034 SPECS FOR SDR-26

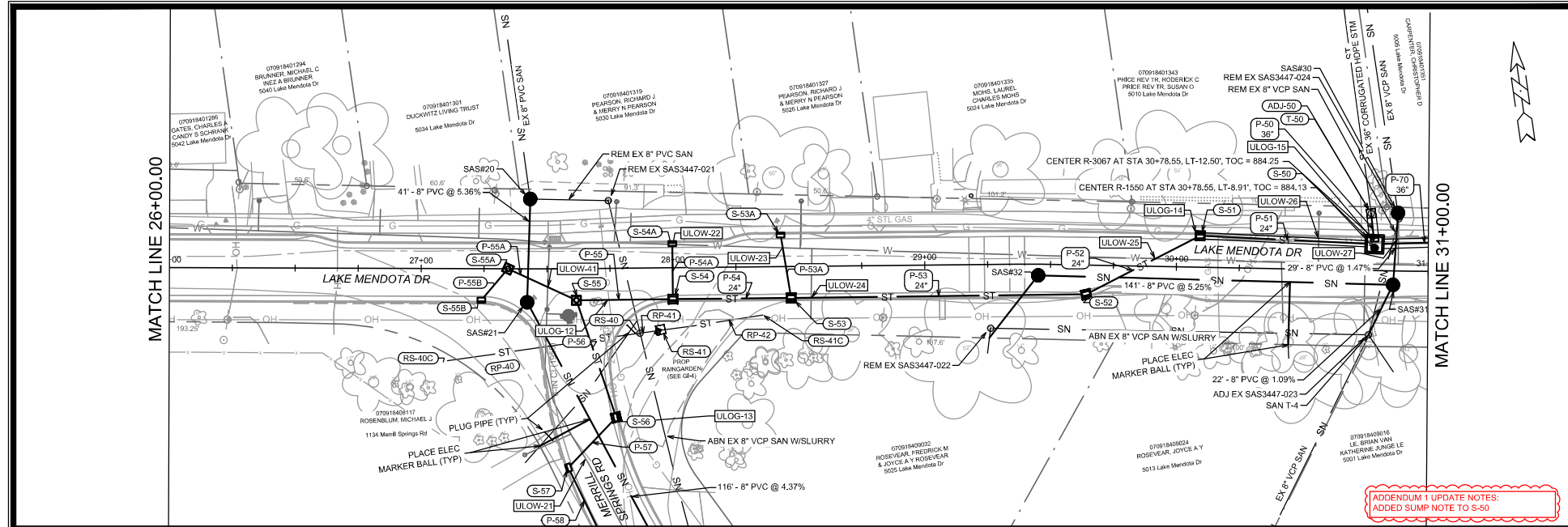
INSTALL NEW 6" SANITARY LATERAL FOR ADDRESSES 5141 SPRING CT, 5122 LAKE MENDOTA DR (LMD), 5136 LMD, & 5140 LMD.
 INSTALL SAN LAT AT 2.0% FROM MAIN & INSTALL RISER AT ROW TO MATCH EX LATERAL ELEVATION.

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MADISON, WI	8715	
CONTRACT NO.		
LAKE MENDOTA DR - SEWER PLAN & PROFILE		
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023		
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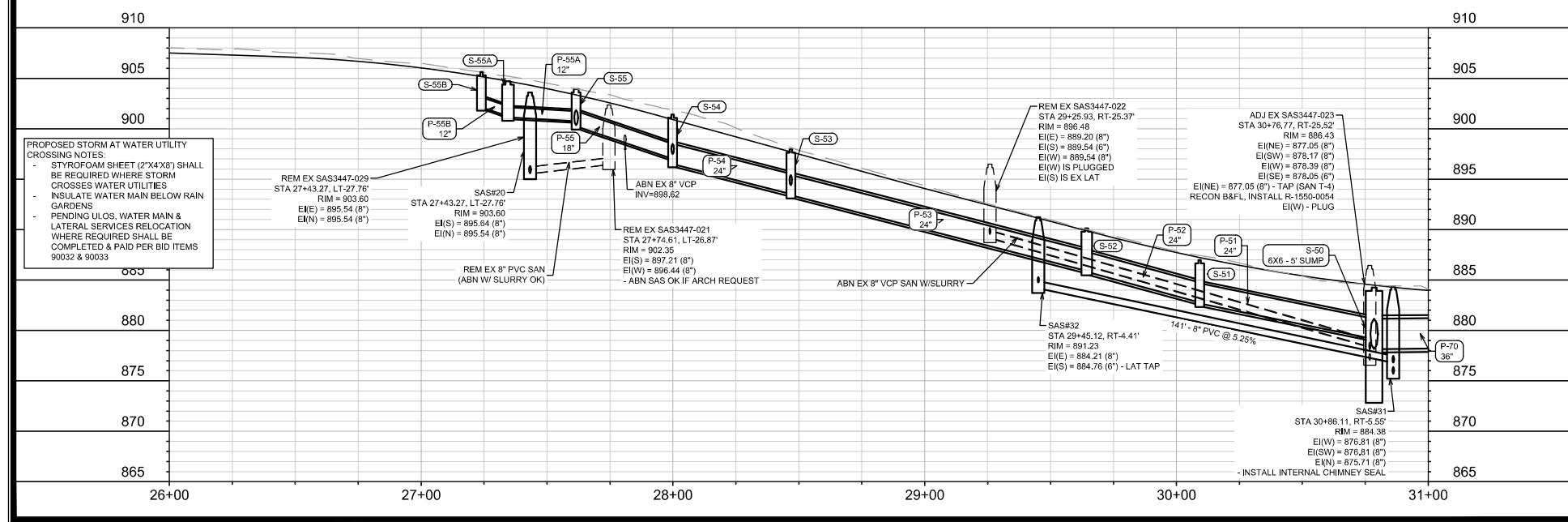


PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
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DATE	BY	SCALE	SHEET NO.
REVISION	DATE	BY	
<p>14082</p> <p>8715</p> <p>CONTRACT NO.</p>			
<p>14082</p> <p>MADISON, WI</p> <p>U-3</p>			
<p>LAKE MENDOTA DR - SEWER PLAN & PROFILE</p> <p>LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023</p> <p>M:\DESIGN\Projects\14082\CAD\Sewers\14082SVR-P&P.dwg</p>			
<p>14082</p> <p>U-3</p>			



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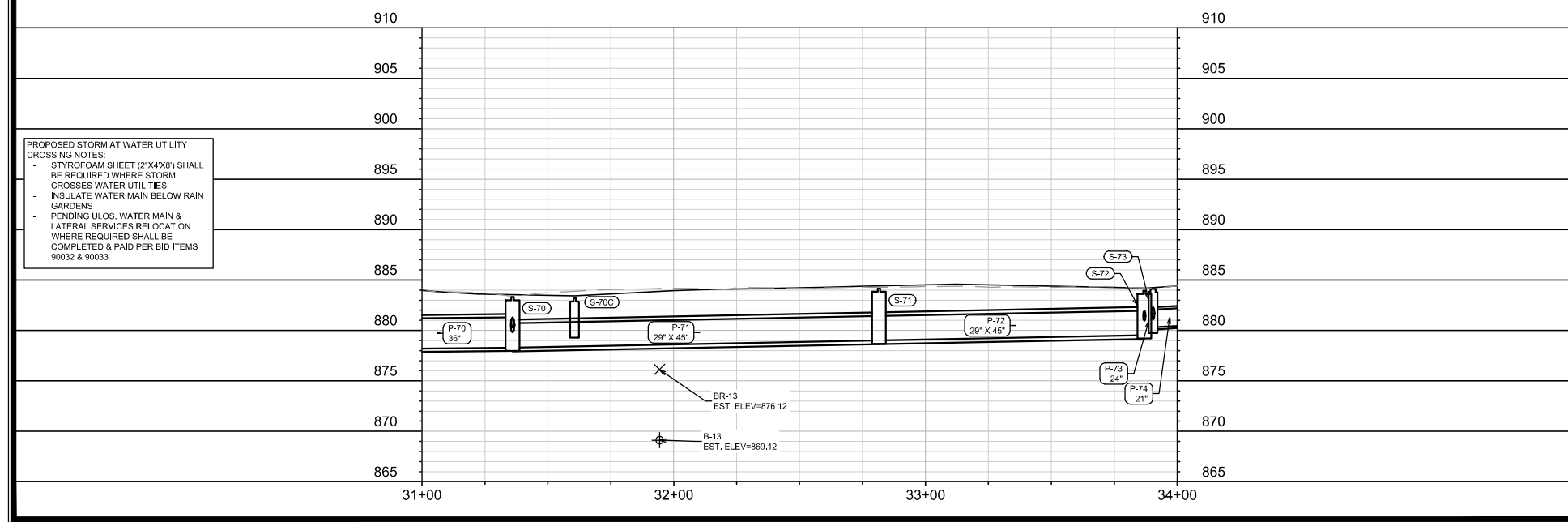
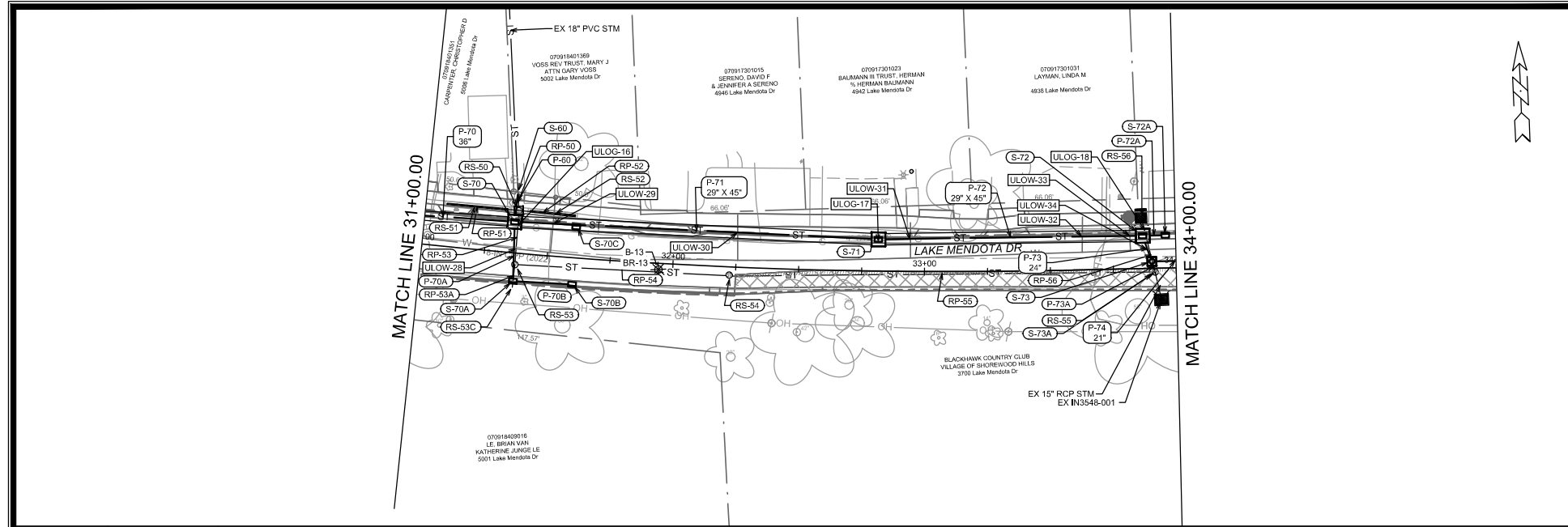
PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
 - STYROFOAM SHEET (2'x4'x8") SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

ADDENDUM 1 UPDATE NOTES:
 ADDED SUMP NOTE TO S-50

14082
 MADISON, WI
 CONTRACT NO.: 8715
 U-4

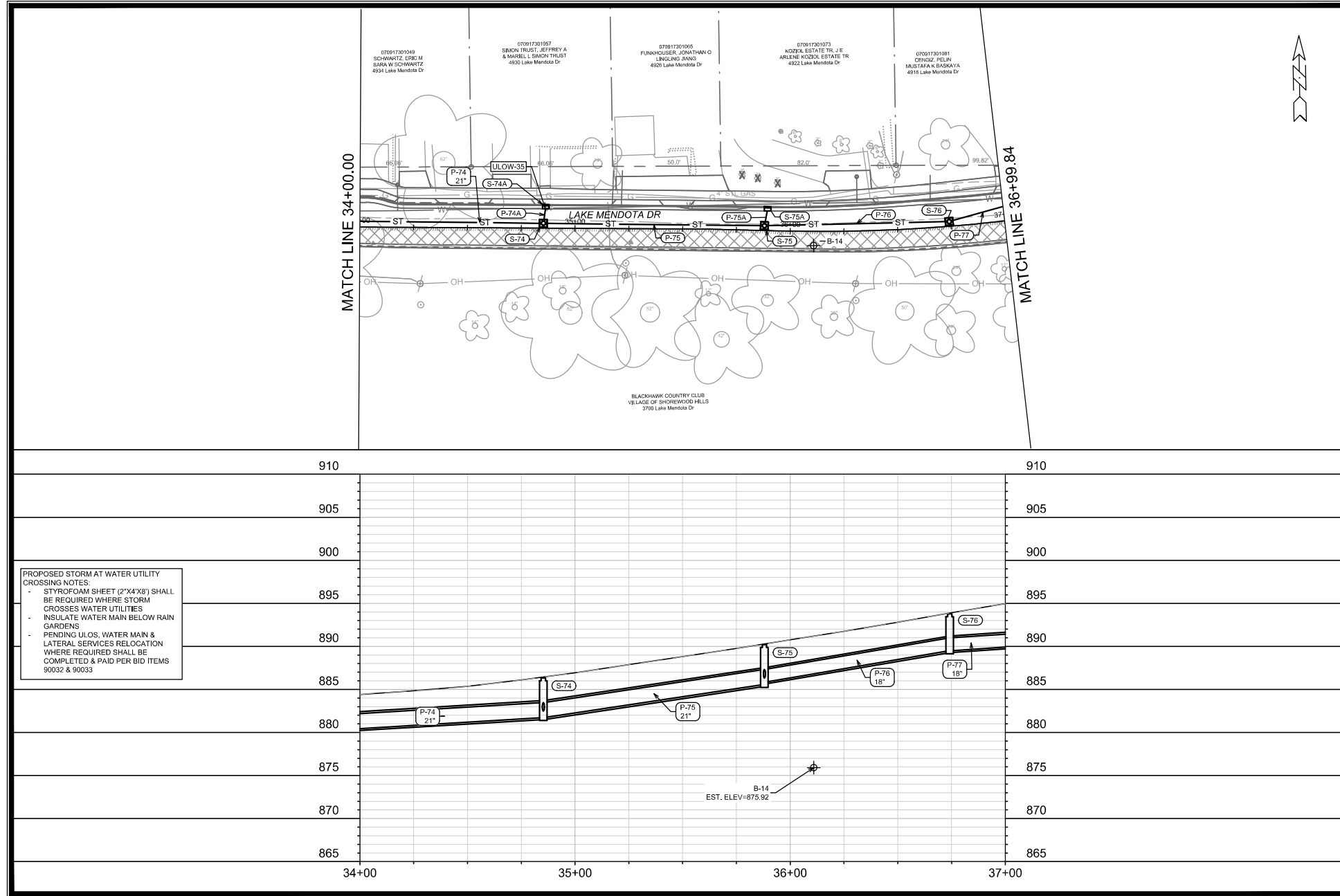
LAKE MENDOTA DR - SEWER PLAN & PROFILE
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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14082
 U-4

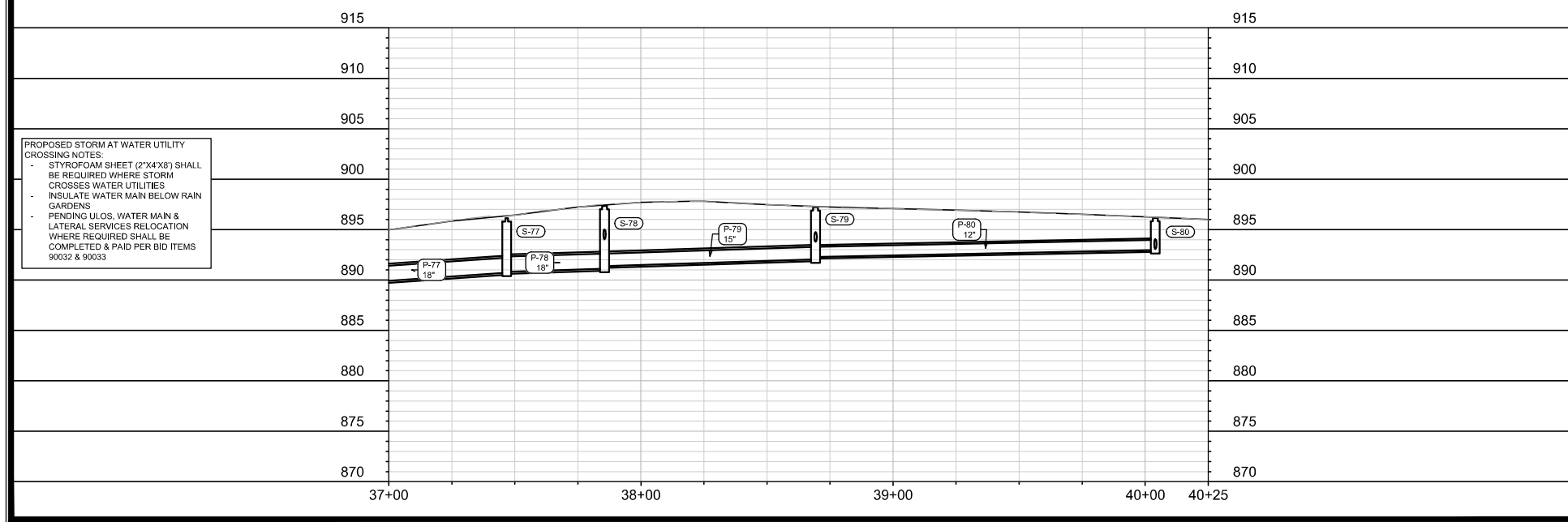
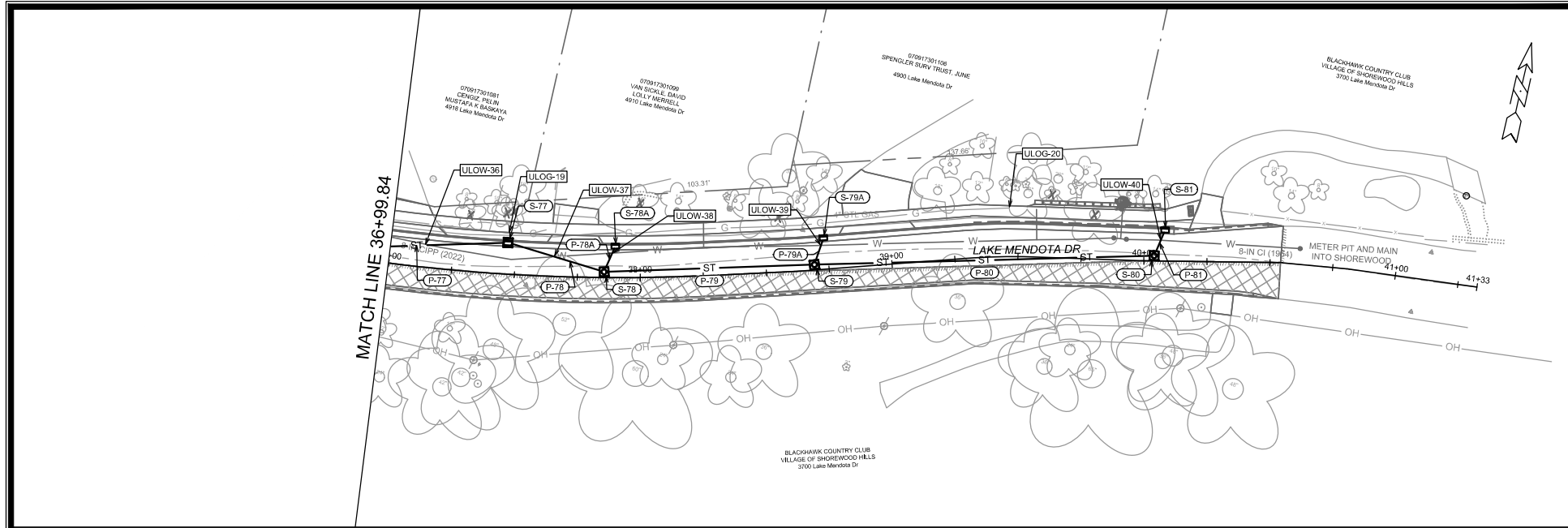


PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
 - STYROFOAM SHEET (2'X4'X3") SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

DATE	BY	SCALE	U-5
14082			
LAKE MENDOTA DR - SEWER PLAN & PROFILE LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023			
PROJECT NO: 14082 CONTRACT NO: 8715		CITY OF MADISON, WI PROJECT: 14082/CAD/Sewers/14082SVR-PP.dwg	
		14082 U-5	

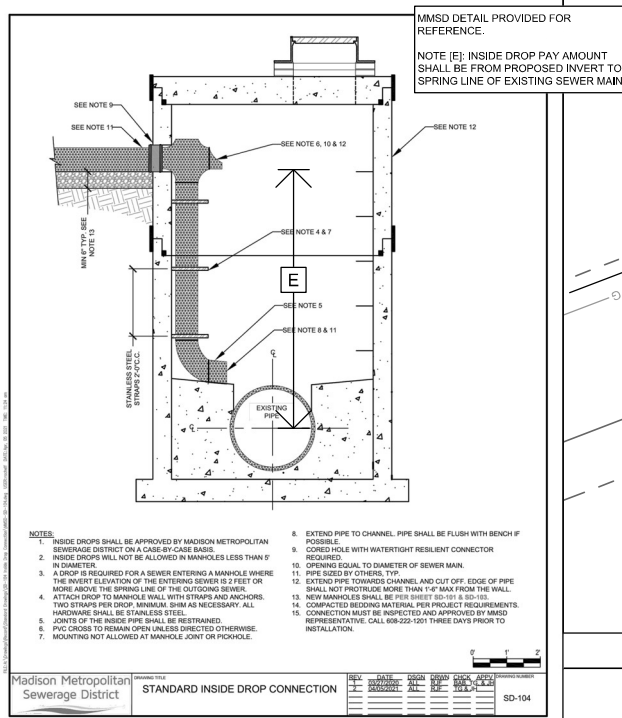
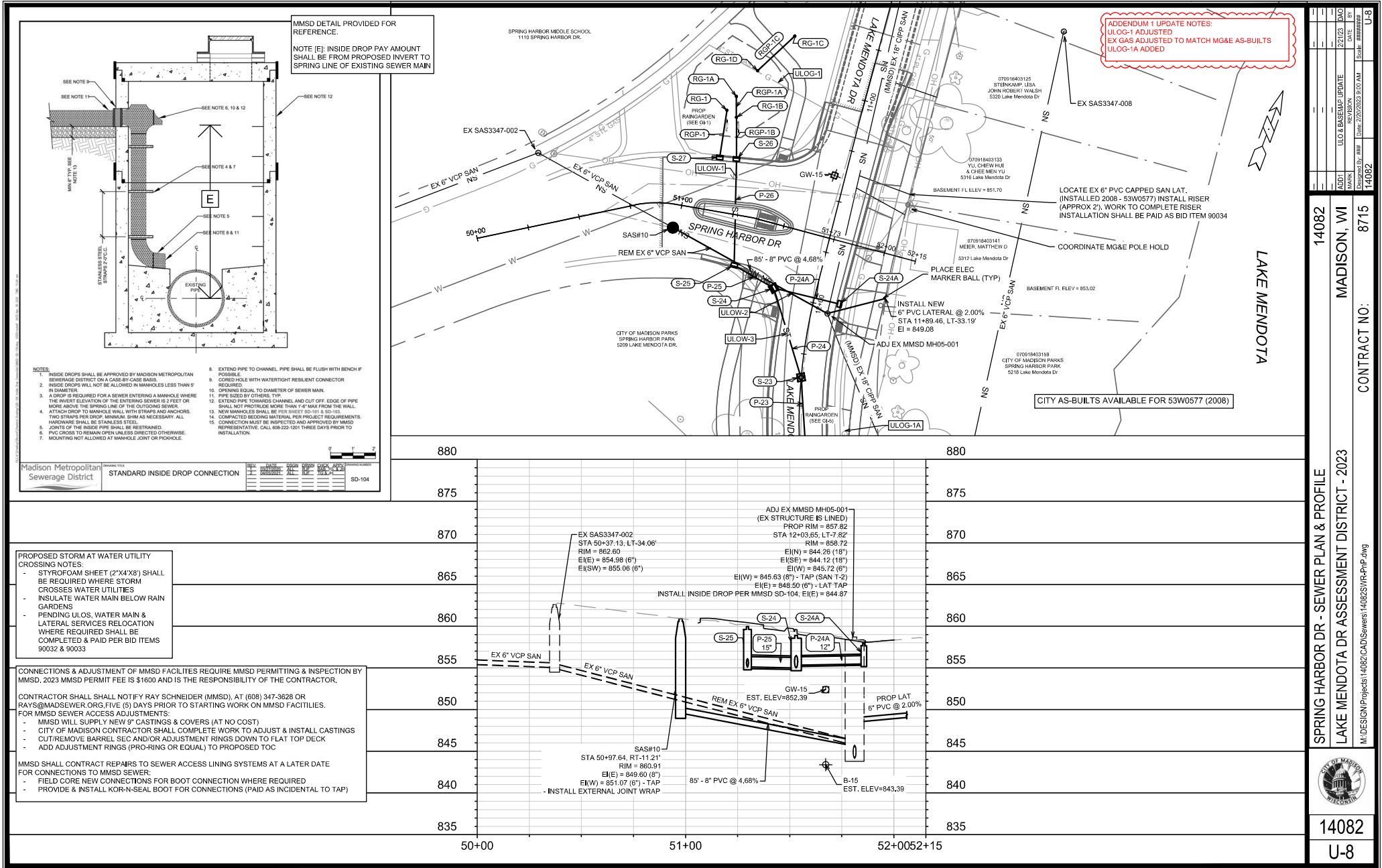


DATE	BY	SCALE	U-6
14082			
<p>14082 MADISON, WI CONTRACT NO.: 8715</p>			
<p>LAKE MENDOTA DR - SEWER PLAN & PROFILE LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023 M:\DESIGN\Projects\14082\CAD\Sewers\14082SVR-PP.dwg</p>			
<p>14082 U-6</p>			



PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
 - STYROFOAM SHEET (2'x4'x8") SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

DATE	BY	SCALE	MARK	DATE	BY	SCALE	MARK
14082				U-7			
14082				8715			
CONTRACT NO.:				CONTRACT NO.:			
MADISON, WI				MADISON, WI			
14082				14082			
LAKE MENDOTA DR - SEWER PLAN & PROFILE				LAKE MENDOTA DR - SEWER PLAN & PROFILE			
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023				LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023			
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14082				14082			
U-7				U-7			



NOTES:

- INSIDE DROPS SHALL BE APPROVED BY MADISON METROPOLITAN SEWERAGE DISTRICT ON A CASE-BY-CASE BASIS.
- INSIDE DROPS WILL NOT BE ALLOWED IN MANHOLES LESS THAN 8' IN DIAMETER.
- A DROP IS REQUIRED FOR A SEWER ENTERING A MANHOLE WHERE THE INVERT ELEVATION OF THE ENTERING SEWER IS 2 FEET OR MORE ABOVE THE SPRING LINE OF THE OUTGOING SEWER.
- ATTACH DROP TO MANHOLE WITH STRAPS AND ANCHORS. TWO STRAPS PER DROP, MINIMUM 3/8" AS NECESSARY. ALL HARDWARE SHALL BE STAINLESS STEEL.
- JOINTS OF THE INSIDE PIPE SHALL BE RESTRAINED.
- PVC CROSS TO REMAIN OPEN UNLESS DIRECTED OTHERWISE.
- MOUNTING NOT ALLOWED AT MANHOLE JOINT OR PICHOLE.
- EXTEND PIPE TO CHANNEL. PIPE SHALL BE FLUSH WITH BENCH IF POSSIBLE.
- COVER HOLE WITH WATER-TIGHT RESILIENT CONNECTOR REQUIRED.
- OPENING EQUAL TO DIAMETER OF SEWER MAIN.
- PIPE SIZED BY OTHERS. TYP.
- EXTEND PIPE TOWARD CHANNEL AND CUT OFF. EDGE OF PIPE SHALL NOT PROTRUDE MORE THAN 1/4" MAX FROM THE WALL.
- NEW MANHOLES SHALL BE PER SPEC 501.01 & 501.02.
- COMPACTED BEDDING MATERIAL PER PROJECT REQUIREMENTS.
- CONNECTION MUST BE INSPECTED AND APPROVED BY MMSD REPRESENTATIVE. CALL 608-222-1201 THREE DAYS PRIOR TO INSTALLATION.

Madison Metropolitan Sewerage District
STANDARD INSIDE DROP CONNECTION
SD-104

PROPOSED STORM AT WATER UTILITY CROSSING NOTES:

- STYROFOAM SHEET (2'x4'x8") SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
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- PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

CONNECTIONS & ADJUSTMENT OF MMSD FACILITIES REQUIRE MMSD PERMITTING & INSPECTION BY MMSD. 2023 MMSD PERMIT FEE IS \$1600 AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

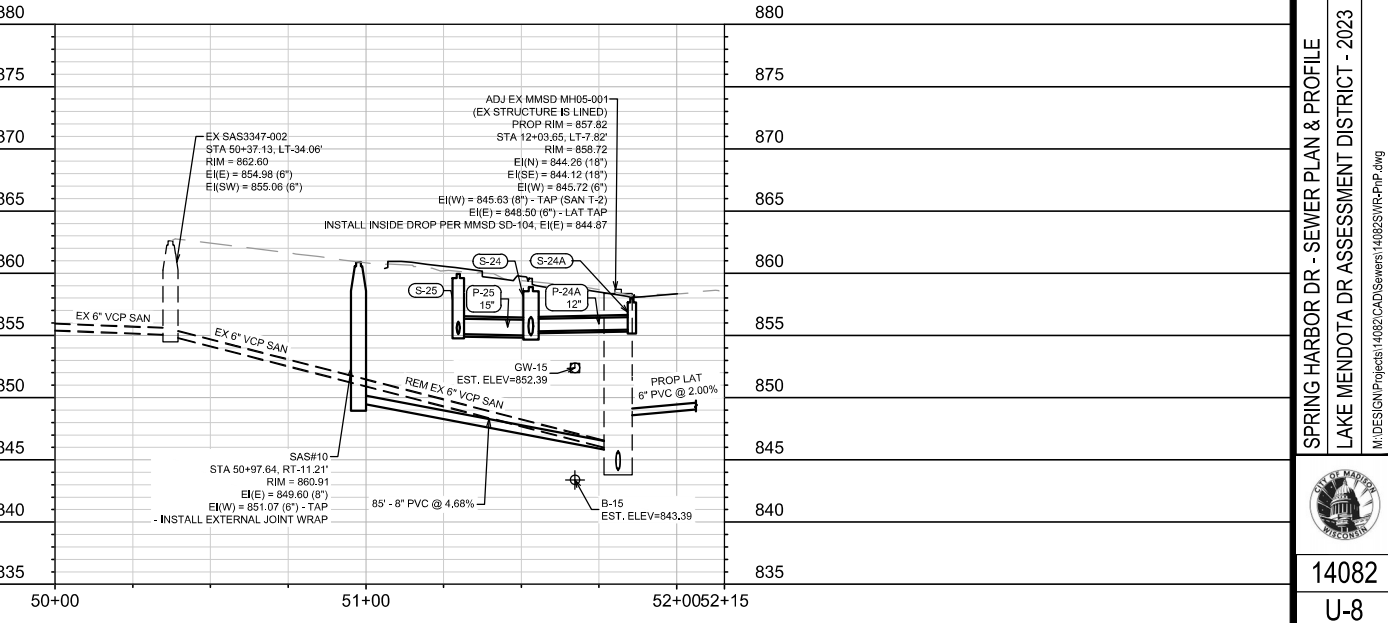
CONTRACTOR SHALL SHALL NOTIFY RAY SCHNEIDER (MMSD), AT (608) 347-3628 OR RAYS@MADSEWER.ORG FIVE (5) DAYS PRIOR TO STARTING WORK ON MMSD FACILITIES.

FOR MMSD SEWER ACCESS ADJUSTMENTS:

- MMSD WILL SUPPLY NEW 9" CASTINGS & COVERS (AT NO COST)
- CITY OF MADISON CONTRACTOR SHALL COMPLETE WORK TO ADJUST & INSTALL CASTINGS
- CUT/REMOVE BARREL SEC AND/OR ADJUSTMENT RINGS DOWN TO FLAT TOP DECK
- ADD ADJUSTMENT RINGS (PRO-RING OR EQUAL) TO PROPOSED TOC

MMSD SHALL CONTRACT REPAIRS TO SEWER ACCESS LINING SYSTEMS AT A LATER DATE FOR CONNECTIONS TO MMSD SEWER:

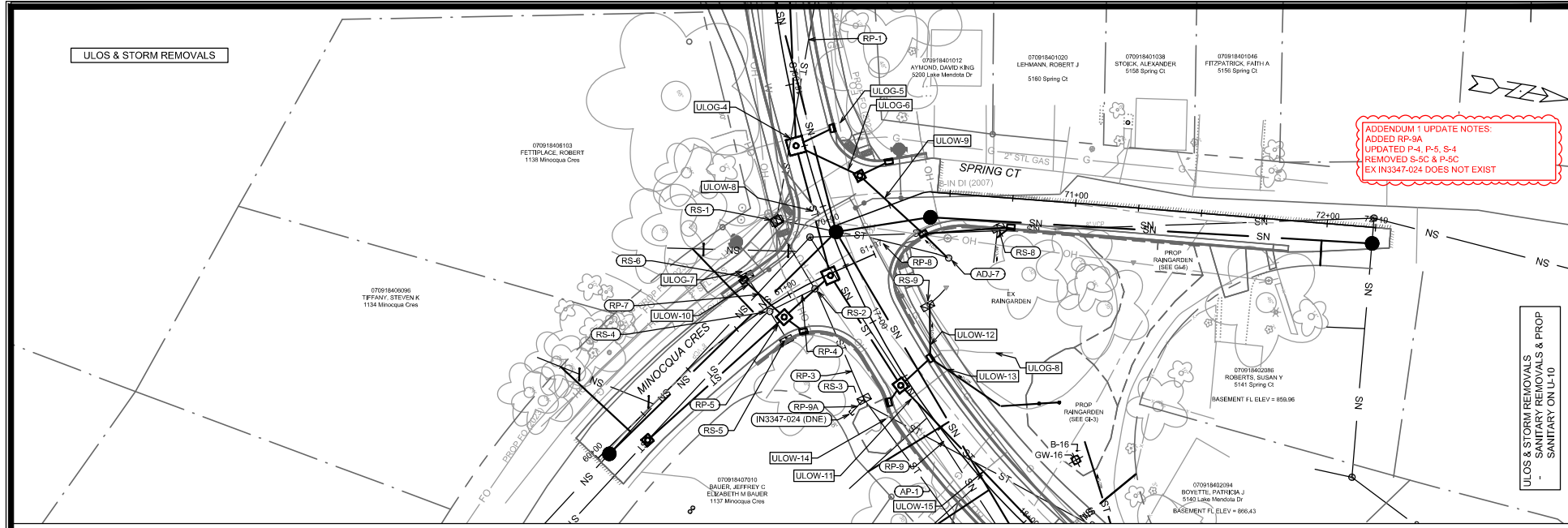
- FIELD CORE NEW CONNECTIONS FOR BOOT CONNECTION WHERE REQUIRED
- PROVIDE & INSTALL KOR-N-SEAL BOOT FOR CONNECTIONS (PAID AS INCIDENTAL TO TAP)



ADDENDUM 1 UPDATE NOTES:
ULOG-1 ADJUSTED
EX GAS ADJUSTED TO MATCH MG&E AS-BUILTS
ULOG-1A ADDED

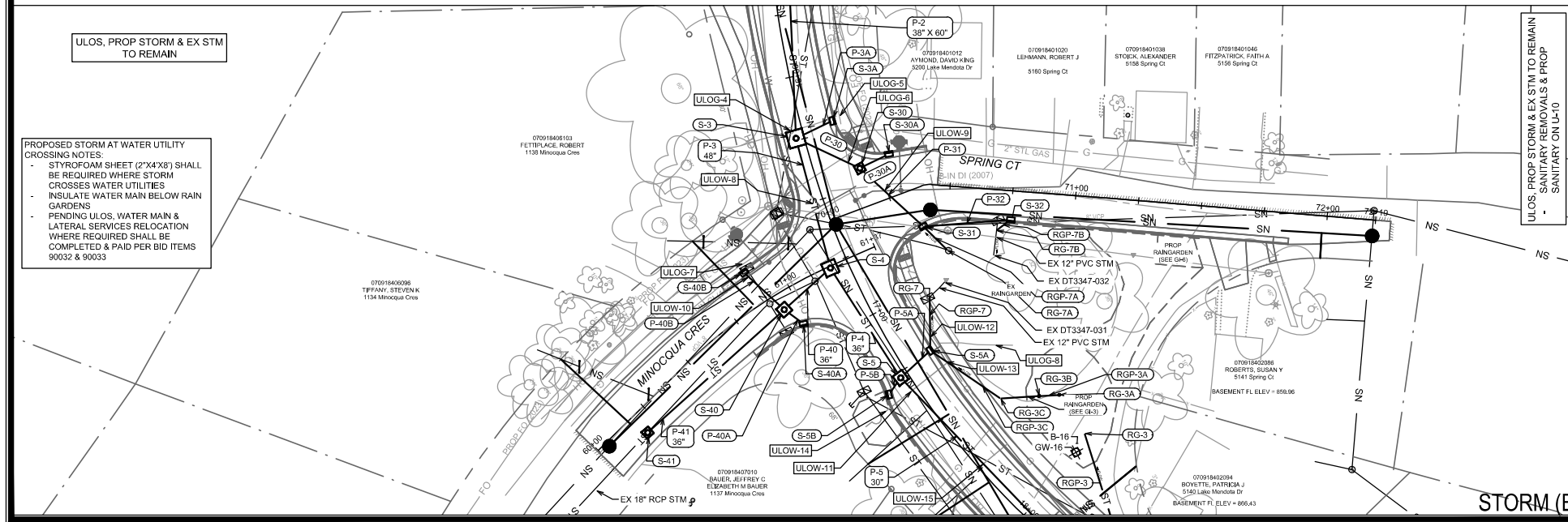
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14082
U-8



ADDENDUM 1 UPDATE NOTES:
 ADDED RP-8A
 UPDATED P-4, P-5, S-4
 REMOVED S-CC & P-5C
 EX IN3347-024 DOES NOT EXIST

ULOS & STORM REMOVALS
 SANITARY REMOVALS & PROP
 SANITARY ON U-10



PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
 - STYROFOAM SHEET (2'X4'X8') SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

ULOS, PROP STORM & EX STM TO REMAIN
 SANITARY REMOVALS & PROP
 SANITARY ON U-10

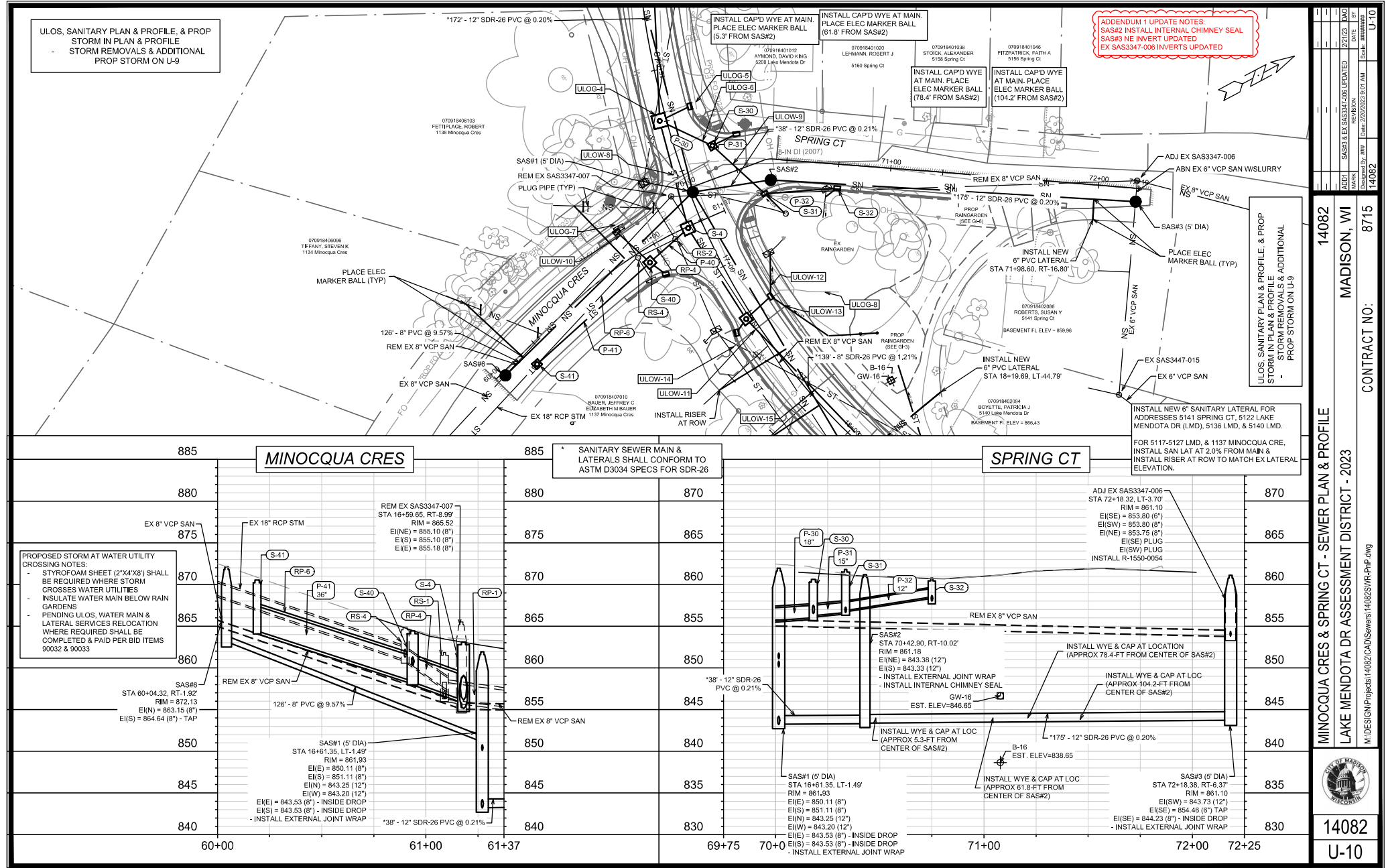
MINOCQUA CRES & SPRING CT - STORM SEWER PLAN

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

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14082	8715
MADISON, WI	CONTRACT NO.:
14082	U-9

STORM (EX) & PROP UI



ULOS, SANITARY PLAN & PROFILE, & PROP STORM IN PLAN & PROFILE STORM REMOVALS & ADDITIONAL PROP STORM ON U-9

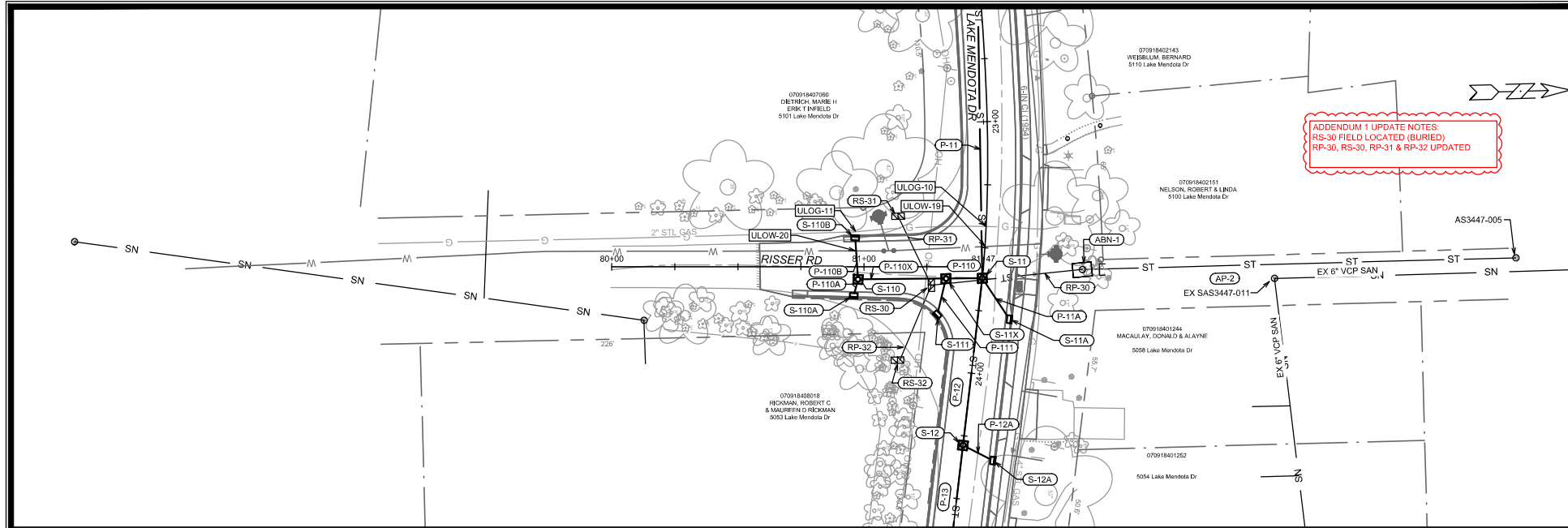
ADDENDUM 1 UPDATE NOTES
 SAS#2 INSTALL INTERNAL CHIMNEY SEAL
 SAS#3 NE INVERT UPDATED
 EX SAS3347-006 INVERTS UPDATED

ULOS, SANITARY PLAN & PROFILE, & PROP STORM IN PLAN & PROFILE STORM REMOVALS & ADDITIONAL PROP STORM ON U-9

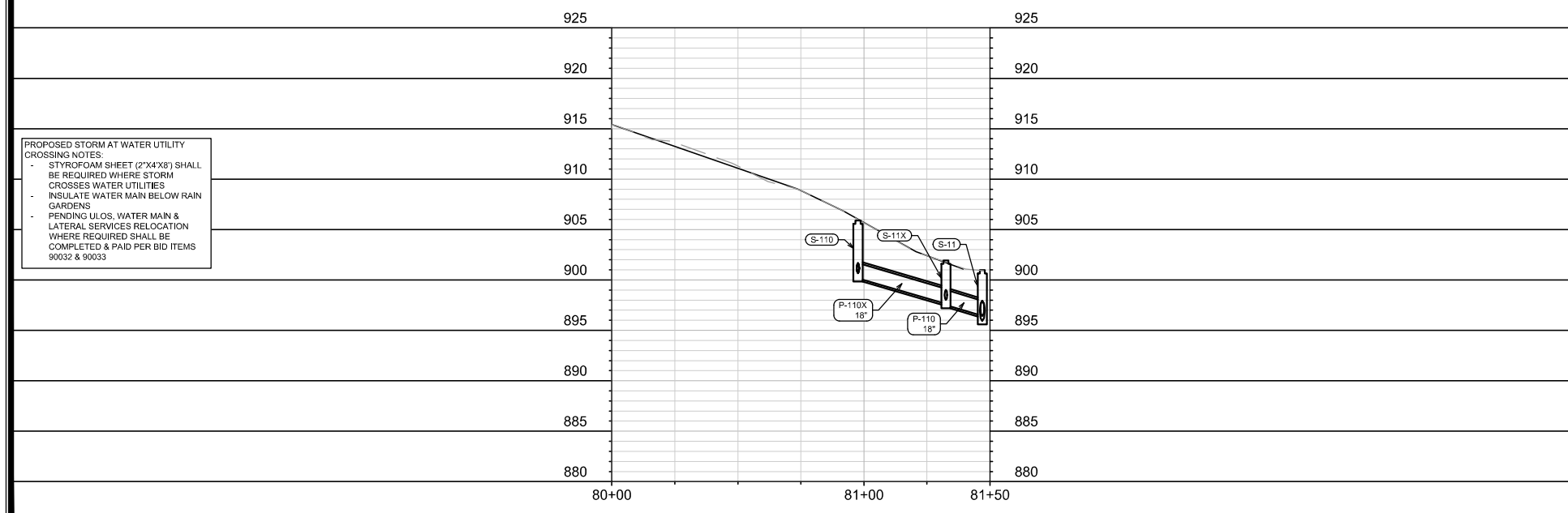
MINOCQUA CRES	SANITARY SEWER MAIN & LATERALS SHALL CONFORM TO ASTM D3034 SPECS FOR SDR-26	SPRING CT
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880	880	865
875	875	860
870	870	855
865	865	850
860	860	845
855	855	840
850	850	835
845	845	830
840	840	830

PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
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14082
 MADISON, WI
 CONTRACT NO. 8715
 MINOCQUA CRES & SPRING CT - SEWER PLAN & PROFILE
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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 14082
 U-10

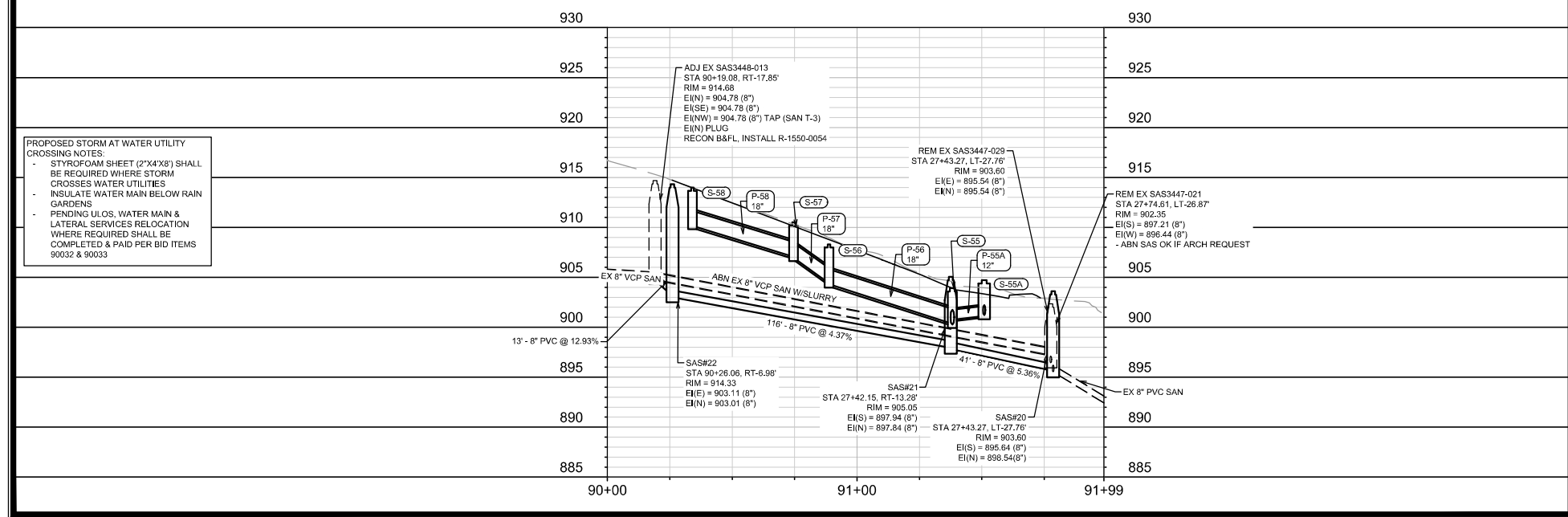
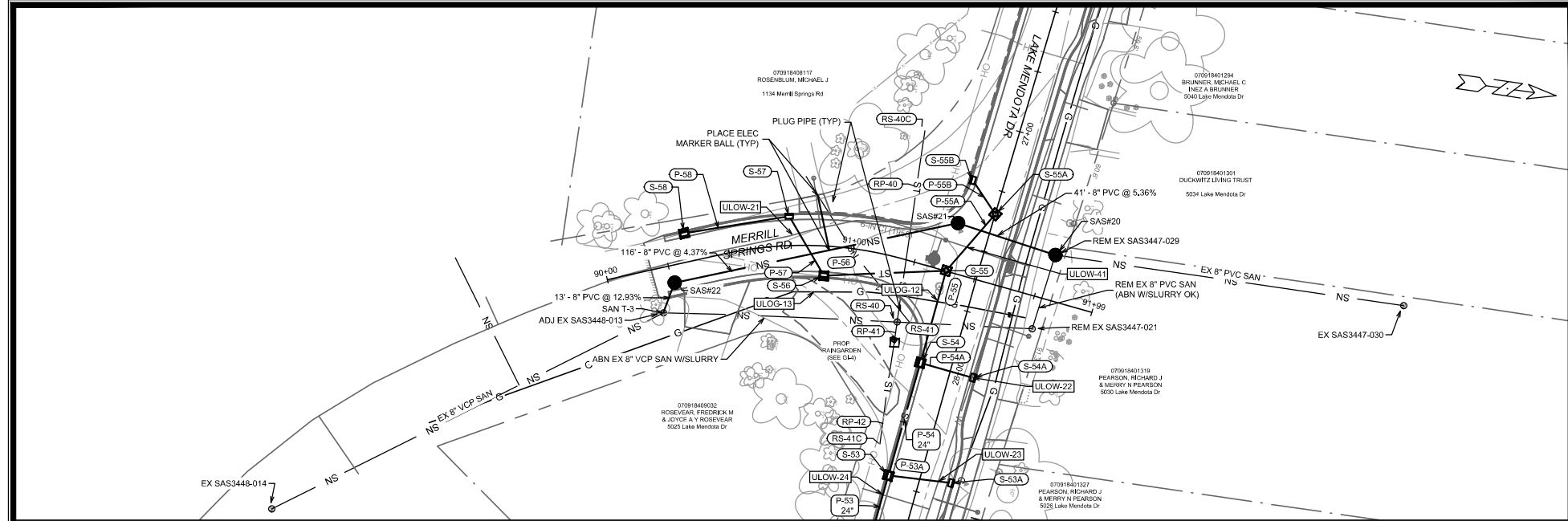


ADDENDUM 1 UPDATE NOTES:
 RS-30 FIELD LOCATED (BURIED)
 RP-30, RS-30, RP-31 & RP-32 UPDATED



PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
 - STYROFOAM SHEET (2'X4'X3") SHALL BE REQUIRED WHERE STORM CROSSES WATER UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90032 & 90033

DATE	22/03	BY	U-11
REVISION	EX-STA & REMOVALS UPDATED		
DRAWN		DATE	22/03/2023 9:01 AM
CHECKED		SCALE	
PROJECT NO.	14082	CONTRACT NO.	8715
14082 MADISON, WI RISSER RD - SEWER PLAN & PROFILE LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023 <small>M:\DESIGN\Projects\14082\CAD\Sewers\14082SVR-P&P.dwg</small>			
14082 U-11			



PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
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NO.	DATE	BY	SCALE	REVISION

14082

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 CHECKED BY: [Blank]
 SCALE: [Blank]

14082

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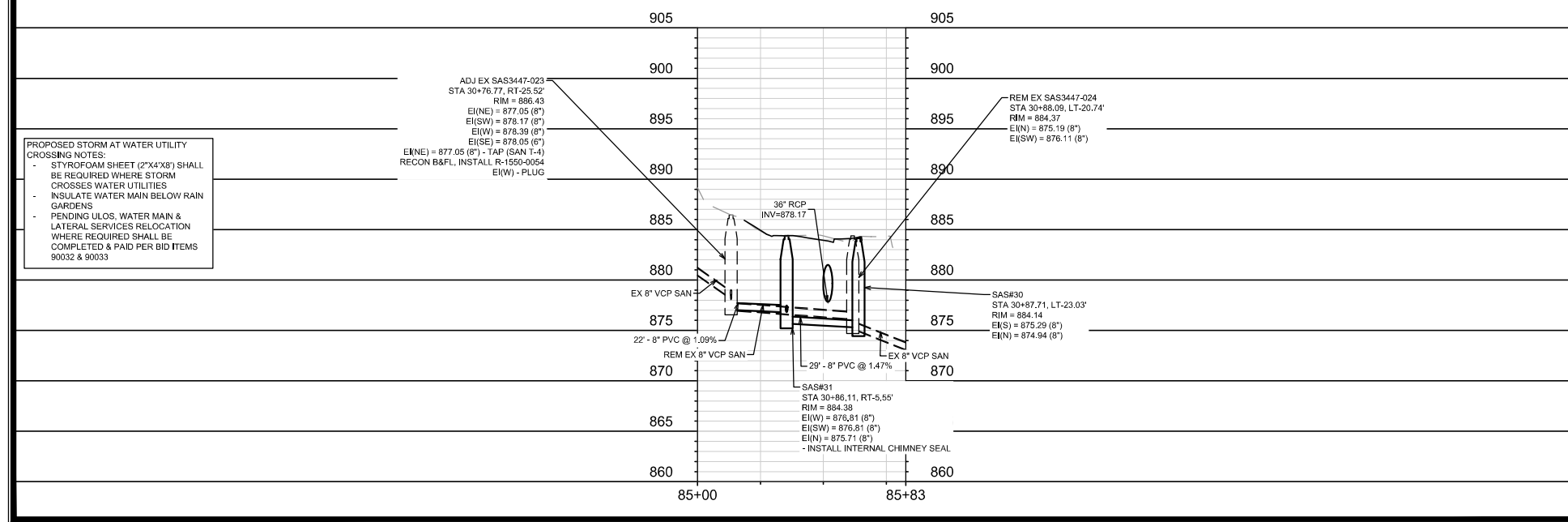
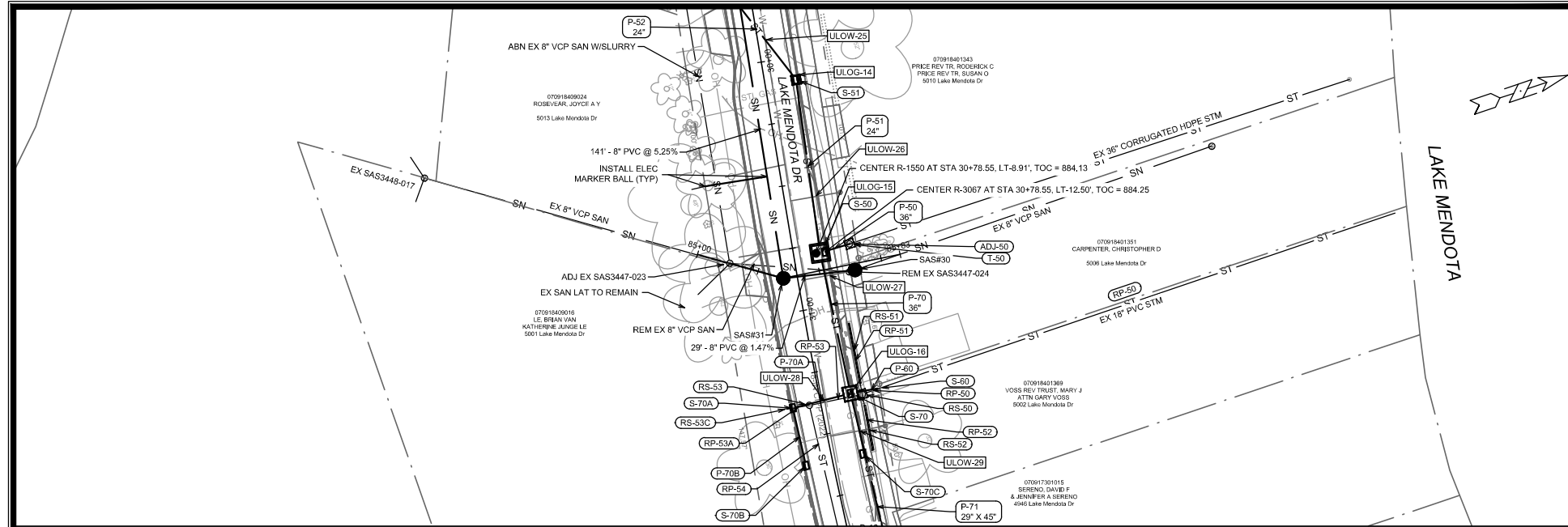
MERRILL SPRINGS RD - SEWER PLAN & PROFILE
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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14082

U-12

CONTRACT NO.: 8715





PROPOSED STORM AT WATER UTILITY CROSSING NOTES:

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DATE	BY	SCALE	MARK	DATE	BY	SCALE
14082			8715			U-13
14082			8715			U-13

CONTRACT NO. 14082

CONTRACT NO. 8715

LAKE MENDOTA DR (EAST) - SEWER PLAN & PROFILE

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

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14082

U-13

SANITARY SEWER SCHEDULE

ADDENDUM 1 - 2/21/2023 DAO

PROJECT NAME	SHEET NO.
PROJECT NO. 14082	U-14
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

U-14

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
LAKE MENDOTA DR (14+75 to 20+25)						
SAN T-1	14+92.81	RT-16.87	-	842.86	-	TAP EX SAS3347-010; [2]
SAS#1	16+61.35	LT-1.49	861.93	843.20	18.73	5 DIA SAS; [3][8]
SAS#4	18+00.52	RT-5.50	869.94	851.80	18.14	[8]
SAS#5	20+05.09	LT-5.80	881.45	865.39	16.06	-
SPRING CT						
# SAS#2	70+42.90	RT-10.02	861.18	843.33	17.85	[8][10]
# SAS#3	72+18.38	RT-6.37	861.10	843.73	17.37	5 DIA SAS; [8][9]
MINOCQUA CRES						
SAS#6	60+04.32	RT-1.92	872.13	863.15	8.98	-
SPRING HARBOR DR						
SAN T-2	12+03.65	LT-7.82	-	845.63	-	TAP EX MMSD MH05-001; [1]
SAS#10	50+97.64	RT-11.21	860.91	849.60	11.31	[8]
LAKE MENDOTA DR (27+25 TO 28+00)						
SAS#20	27+43.27	LT-27.76	903.60	895.64	7.96	[4]
SAS#21	27+42.15	RT-13.28	905.05	897.84	7.21	-
MERRILL SPRINGS RD						
SAS#22	90+26.06	RT-6.98	914.33	903.01	11.32	-
SAN T-3	90+19.08	RT-17.85	-	904.78	-	TAP; [5]
LAKE MENDOTA DR (29+25 to 31+00)						
SAS#30	30+87.71	LT-23.03	884.14	874.84	9.30	RECNT EI(N) = 874.94(8")
SAS#31	30+86.11	RT-5.55	884.38	875.71	8.67	[10]
SAS#32	29+45.12	RT-4.41	891.23	884.21	7.02	-
SAN T-4	30+76.77	RT-25.52	-	877.05	-	TAP; [7]

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
LAKE MENDOTA DR (14+75 to 20+25)								
SAN T-1	SAS#1	842.86	843.20	172	0.20%	12"	SDR-26	
SAS#1	SAS#4	850.11	851.80	139	1.21%	8"	SDR-26	
SAS#4	SAS#5	851.90	865.39	205	6.57%	8"	SDR-26	[11]
SPRING CT								
SAS#1	SAS#2	843.25	843.33	38	0.21%	12"	SDR-26	
SAS#2	SAS#3	843.38	843.73	175	0.20%	12"	SDR-26	
MINOCQUA CRES								
SAS#1	SAS#6	851.11	863.15	126	9.57%	8"	SDR-26	
SPRING HARBOR CT								
SAN T-2	SAS#10	845.63	849.60	85	4.68%	8"	SDR-35	
LAKE MENDOTA DR (27+25 TO 28+00)								
SAS#20	SAS#21	895.64	897.84	41	5.36%	8"	SDR-35	
MERRILL SPRINGS RD								
SAS#21	SAS#22	897.94	903.01	116	4.37%	8"	SDR-35	
SAS#22	SAN T-3	903.11	904.78	13	12.93%	8"	SDR-35	
LAKE MENDOTA DR (29+25 to 31+00)								
SAS#30	SAS#31	875.29	875.71	29	1.47%	8"	SDR-35	
SAS#31	SAS#32	876.81	884.21	141	5.25%	8"	SDR-35	
SAS#31	SAN T-4	876.81	877.05	22	1.09%	8"	SDR-35	

SPECIFIC NOTES

- [1] TWO TAPS AT SAS; INSTALL INSIDE DROP PER MMSD SPECS (SHEET U-8); INSIDE DROP PAID AS VF FROM INVERT TO SPRINGLINE
- [2] TAP EX SAS3347-010; EI(E) = 842.86; RECONSTRUCT BENCH & FLOWLINE
- [3] TWO INSIDE DROPS; EI(E) = 843.53 (8"), 6.58 V.F. & EI(S) = 843.53 (8"), 7.58 V.F.
- [4] CONNECT TO EX 8" PVC, EI(N) = 895.54
- [5] TAP EX SAS3448-013; PLUG EX 8" PIPE (N) & RECONSTRUCT BENCH & FLOWLINE
- [6] TAP EX SAS3447-024; EI(N) = 875.19; RECONSTRUCT BENCH & FLOWLINE; REPLACE CASTING WITH R-1550-0054
- [7] TAP EX SAS33447-023; PLUG EX 8" PIPE(W) & RECONSTRUCT BENCH & FLOWLINE
- [8] INSTALL EXTERNAL JOINT WRAP
- # [9] CONNECT EX 6" VCP (EI(SE) = 854.46) WITH TAP; INSTALL INSIDE DROP; DROP EI(W) = 844.23, 10.23 V.F.
- [10] INSTALL INTERNAL CHIMNEY SEAL
- [11] INSTALL FOUR (4) 6" SANITARY WYE (PAID AS INCIDENTAL TO MAIN) AT LOCATIONS SHOWN ON SHEET U-10; CAP WYE & INSTALL MARKER BALL

SANITARY SEWER SCHEDULE

PROJECT NAME PROJECT NO. 14082	SHEET NO. U-15
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

U-15

SANITARY STRUCTURE REMOVALS

STRUC ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
LAKE MENDOTA DR (14+50 TO 19+75)						
SAS3347-007	16+59.65	RT-8.99	865.52	855.1	10.42	-
SAS3447-018	18+45.21	RT-21.50	874.36	866.52	7.84	-
SAS3447-017	19+16.95	RT-3.44	876.27	871.89	4.38	-
SAS3447-016	19+64.97	RT-2.66	878.98	873.88	5.10	-
MERRILL SPRINGS RD						
SAS3447-029	27+43.27	LT-27.76	903.60	895.54	8.06	-
SAS3447-021	27+74.61	LT-26.87	902.35	896.44	5.91	[5]
LAKE MENDOTA DR (29+50 TO 31+00)						
SAS3447-022	29+25.93	RT-25.37	896.48	889.20	7.28	-
SAS3447-024	30+88.09	LT-20.74	884.37	875.19	9.18	-

SANITARY STRUCTURE ADJUSTMENTS

STRUC ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	PROP TOC	ADJ (FT)	NOTES
LAKE MENDOTA DR (14+50 TO 19+75)						
SAS3347-010	14+92.81	RT-16.87	858.51	858.03	-0.48	ADJ CASTING; [3]
SPRING CT						
SAS3347-006	72+18.32	LT-3.70	861.10	861.1	0.00	INSTALL 2 PLUGS (8" SW & 6" SE); [2]
MERRILL SPRINGS RD						
SAS3448-013	90+19.08	RT-17.85	914.68	914.68	0.00	INSTALL PLUG (8" N); [2][3]
LAKE MENDOTA DR (29+50 TO 31+00)						
SAS3447-023	30+76.77	RT-25.52	886.43	886.43	0.00	INSTALL PLUG (8" W); [1][2][3]
SPRING HARBOR DR						
MMSD MH05-001	12+03.65	LT-7.82	858.72	857.82	-0.90	[4][7]

SPECIFIC NOTES

- [1] PIPE PLUGS INCIDENTAL (LESS THAN 10")
- [2] REPLACE CASTING WITH R-1550-0054
- [3] RECONSTRUCT BENCH & FLOWLINE IN COORDINATION WITH NEW SEWER PIPE CONNECTION
- [4] ADJUST MMSD SAS; REMOVE BARREL SECTION AS NEEDED. REMOVE/REPLACE BARREL SECTION & ADJUSTMENT RINGS; PROVIDE JOINT WRAP AT REPLACED BARRELL JOINT; SEE BID ITEM 90035
- [5] ACCEPTIBLE TO ABANDON SAS IF ARCHEOLOGIST PREFERS INSTEAD OF REMOVAL
- [6] ACCEPTIBLE TO ABANDON SAS IF ARCHEOLOGIST PREFERS INSTEAD OF REMOVAL (0.40 CY)
- [7] PROP LATERAL CONNECTION TO MMSD MH05-001; REQUIRES INSIDE DROP; TAP EI(NE) = 844.50, DROP EI(NE) = 844.65, 4.10 V.F.

SANITARY PIPE REMOVALS & ABANDONMENTS

REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM LGTH PAID (FT)	ABN LGTH (FT)	CY SLURRY	PIPE SIZE	PIPE TYPE	NOTES
SPRING HARBOR DR									
MMSD MH05-001	SASSAS#10	85	N	0	0	0	6"	VCP	-
SPRING CT									
SAS3347-006	SAS3347-007	224	Y	57	0	0	6"	VCP	[1]
SAS3347-006	SAS#3	10	Y	0	10	0.1	6"	VCP	[1]
MINOCQUA CRES									
SAS3347-007	SAS#6	117	Y	50	0	0	8"	VCP	-
LAKE MENDOTA DR (14+50 TO 19+75)									
SAS3347-007	SAS3447-018	190	Y	91	0	0	8"	VCP	-
SAS3447-018	SAS3447-017	74	Y	74	0	0	8"	VCP	-
SAS3447-017	SAS3447-016	48	N	0	0	0	8"	VCP	-
MERRILL SPRINGS RD & LAKE MENDOTA DR									
SAS3447-029	SAS3447-021	31	Y	31	0	0	8"	PVC	[1][6]
SAS3447-021	SAS3448-013	148	Y	0	148	1.9	8"	VCP	[1]
LAKE MENDOTA DR (29+50 TO 31+00)									
SAS3447-024	SAS3447-023	48	N	0	0	0	8"	VCP	-
SAS3447-023	SAS3447-022	150	Y	0	150	1.9	8"	VCP	[1]

STORM SEWER SCHEDULE

NOTE: R-3067-7004 FRAMES WILL BE PLACED AT MODIFIED TYPE A CURB; CASTING HEIGHT IS 2" LOWER THAN TYPICAL FOR TYPE A CURB

ADDENDUM 1 - 2/21/2023 DAO

PROJECT NAME	SHEET NO.
PROJECT NO. 14082	U-16
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-16

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
LAKE MENDOTA DR (SPRING HARBOR OUTLET TO RISSER RD)							
S-0	15+18.20	LT-27.47	5X5 STORM SAS	857.55	853.63	3.92	FP; W/R-1689-0054
S-1	14+48.94	LT-25.40	MOD 4x7 STORM SAS	857.58	852.06	5.52	FP; W/R-1689-0054; [1]
S-2	15+22.05	LT-6.86	5x7 STORM SAS	857.64	852.44	5.20	FP; W/ TWO R-1550-0054
S-2A	15+23.25	RT-12.46	H INLET	858.17	855.00	3.17	W/R-3067-7004V
S-3	16+24.06	RT-3.31	6X6 CB W/SUMP	860.40	854.06	6.34	FP; W/ TWO R-1550-0054; [3]
S-3A	16+21.05	LT-12.50	H INLET	859.92	856.42	3.50	W/R-3067-7004V
S-4	16+76.39	RT-7.18	5X5 STORM SAS	863.11	855.10	8.01	W/R-1550-0054
# S-5	17+27.14	RT-3.22	4X4 STORM SAS	865.77	858.10	7.67	W/R-1550-0054
S-5A	17+24.30	LT-12.50	H INLET	865.25	861.22	4.03	W/R-3067-7004V
S-5B	17+30.09	RT-10.80	H INLET	866.30	862.13	4.17	W/R-3067-7004V
# S-5C	17+24.75	RT-21.24	12" PIPE COLLAR	-	858.96	-	[2]
S-6	18+44.22	CL	4X4 STORM SAS	872.53	866.49	6.04	W/R-1550-0054
S-6A	18+44.22	LT-12.50	H INLET	871.99	867.40	4.59	W/R-3067-7004V; [4]
S-7	19+52.57	RT-9.50	3X3 STORM SAS	878.84	873.88	4.96	W/R-3067-7004V
S-8	19+86.19	RT-3.25	3X3 STORM SAS	880.69	875.42	5.27	W/R-1550-0054
S-8A	19+86.24	LT-12.49	H INLET	880.34	876.42	3.92	W/R-3067-7004V
S-8X	20+13.09	RT-1.48	3X3 STORM SAS	882.23	877.52	4.71	W/R-1550-0054
S-8B	20+17.39	LT-12.50	H INLET	882.19	878.19	4.00	W/R-3067-7004V
# S-9	20+79.96	LT-6.37	3X3 STORM SAS	885.71	880.92	4.79	FP; W/R-1550-0054
S-9A	20+83.70	LT-12.50	H INLET	885.91	882.11	3.80	W/R-3067-7004V
S-9B	20+83.72	RT-9.61	H INLET	886.48	882.48	4.00	W/R-3067-7004V
# S-10	22+35.11	CL	3X3 STORM SAS	894.07	889.23	4.84	FP; W/R-1550-0054
S-10A	22+37.19	LT-12.50	H INLET	893.95	890.45	3.50	W/R-3067-7004V
S-10B	22+46.99	RT-9.50	H INLET	894.96	890.46	4.50	W/R-3067-7004V
# S-11	23+62.11	CL	3X3 STORM SAS	900.98	895.93	5.05	FP; W/R-1550-0054
S-11A	23+77.02	LT-12.50	H INLET	901.57	897.57	4.00	W/R-3067-7004V
S-11X	23+63.65	RT-14.33	3X3 STORM SAS	901.92	897.52	4.40	W/R-1550-0054
S-111	23+78.54	RT-16.19	H INLET	902.98	898.31	4.67	LP; W/R-3067-7004VB
S-12	24+28.78	CL	3X3 STORM SAS	904.41	900.12	4.29	W/R-1550-0054
S-12A	24+33.44	LT-12.50	H INLET	904.37	901.23	3.14	W/R-3067-7004V
S-13	24+81.36	CL	3X3 STORM SAS	906.22	902.75	3.47	W/R-1550-0054
S-13A	24+83.16	LT-12.50	H INLET	906.03	902.93	3.10	W/R-3067-7004V
S-13B	24+83.16	RT-9.50	H INLET	906.54	903.02	3.52	W/R-3067-7004V
RAINGARDEN (17+50 TO 18+25, SEE GI-3)							
RG-3	17+93.95	LT-40.07	PIPE END	-	864.24	-	-
RG-3A	17+73.23	LT-43.11	8" CLEANOUT W/SWEEP	864.24	861.61	2.63	INSTALL SWEEP & CAP
RG-3B	17+67.71	LT-36.74	8" OUTLET ON RISER	865.24	861.57	3.67	8" BELL GRATE
RG-3C	17+57.82	LT-24.26	8" PVC BEND	-	861.49	-	-

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
LAKE MENDOTA DR (SPRING HARBOR OUTLET TO RISSER RD)										
P-0	S-0	S-2	853.63	853.73	21	15	0.67%	29"x45"	HERCP	-
P-1	S-1	S-2	852.06	852.44	72	67	0.57%	38"x60"	HERCP	-
P-2	S-2	S-3	852.44	854.06	102	96	1.68%	38"x60"	HERCP	-
P-2A	S-2	S-2A	854.61	855.00	19	15	2.62%	12"	RCP	-
P-3	S-3	S-4	854.19	855.10	53	48	1.90%	48"	RCP	-
P-3A	S-3	S-3A	856.17	856.42	16	12	2.08%	12"	RCP	-
# P-4	S-4	S-5	856.10	858.10	52	47	4.22%	36"	RCP	-
# P-5	S-5	S-6	859.41	866.49	117	114	6.23%	30"	RCP	-
# P-5A	S-5	S-5A	860.91	861.22	16	13	2.39%	12"	RCP	NGM
P-5B	S-5	S-5B	861.84	862.13	8	5	6.13%	12"	RCP	NCM
# P-5C	S-5	S-5C	868.85	868.96	18	16	0.68%	12"	RCP	-
P-6	S-6	S-7	866.99	873.88	109	106	6.52%	24"	RCP	-
P-6A	S-6	S-6A	867.99	868.40	13	10	4.29%	12"	RCP	-
P-7	S-7	S-8	873.98	875.42	34	31	4.61%	24"	RCP	-
P-8	S-8	S-8X	875.52	877.52	27	24	8.31%	24"	RCP	-
P-8A	S-8	S-8A	876.34	876.42	16	13	0.60%	12"	RCP	-
P-8B	S-8X	S-8B	878.06	878.19	15	12	1.09%	12"	RCP	-
# P-9	S-8X	S-9	877.16	880.92	67	65	5.81%	24"	RCP	-
P-9A	S-9	S-9A	881.92	882.11	7	4	4.63%	12"	RCP	-
P-9B	S-9	S-9B	881.92	882.48	16	14	4.03%	12"	RCP	-
P-10	S-9	S-10	881.02	889.23	156	153	5.37%	24"	RCP	-
P-10A	S-10	S-10A	890.23	890.45	13	10	2.16%	12"	RCP	-
P-10B	S-10	S-10B	890.23	890.46	15	12	1.98%	12"	RCP	-
P-11	S-10	S-11	889.33	895.93	127	124	5.32%	24"	RCP	-
P-11A	S-11	S-11A	896.93	897.57	20	16	3.97%	12"	RCP	-
P-110	S-11	S-11X	896.43	897.52	14	12	9.41%	18"	RCP	-
P-111	S-11X	S-111	898.02	898.31	15	12	2.43%	18"	RCP	-
P-12	S-11	S-12	896.43	900.12	67	64	5.78%	18"	RCP	-
P-12A	S-12	S-12A	900.62	901.23	13	11	5.70%	12"	RCP	-
P-13	S-12	S-13	900.62	902.75	53	50	4.29%	12"	RCP	-
P-13A	S-13	S-13A	902.85	902.93	13	10	0.79%	12"	RCP	-
P-13B	S-13	S-13B	902.85	903.02	10	7	2.38%	12"	RCP	-
RAINGARDEN (17+50 TO 18+25, SEE GI-3)										
RG-3	RG-3	S-6A	864.24	867.40	56	54	5.83%	8"	PVC	[5]
RG-3A	RG-3B	RG-3A	861.57	861.61	8	8	0.50%	8"	UD	[6]
RG-3B	RG-3C	RG-3B	861.49	861.57	15	15	0.52%	8"	PVC	-
RG-3C	S-5A	RG-3C	861.32	861.49	34	32	0.53%	8"	PVC	NCM

SPECIFIC NOTES:

- [1] SEE BID ITEM 90030
- # [2] **INSTALL 12" BEND TO RECONNECT EX-12" STORM PIPE FROM SOUTH SIDE OF EX-A63347-021 (RS-3); PAID AS COLLAR**
- [3] INSTALL 5-FT SUMP BELOW INVERT GIVEN IN CHART
- [4] STRUCTURE OUTLETS TO RAINGARDEN 1' BELOW 12" RCP; EI & DEPTH GIVEN IN CHART IS INVERT FOR RGP-3

- [5] DISCHARGE TO RAINGARDEN
- [6] DRILLED PVC UNDERDRAIN PER S.D.D. 5.7.47

STANDARD NOTES:

-PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

-ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.

-ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.

- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS'S.

- ALL REINFORCED CONCRETE PIPES TO BE CLASS 3 UNLESS OTHERWISE NOTED.

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

STORM SEWER SCHEDULE

NOTE: R-3067-7004 FRAMES WILL BE PLACED AT MODIFIED TYPE A CURB; CASTING HEIGHT IS 2" LOWER THAN TYPICAL FOR TYPE A CURB

ADDENDUM 1 - 2/21/2023 DAO

PROJECT NAME PROJECT NO. 14082	SHEET NO. U-17
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-17

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
RAINGARDEN (5209 LMD, SEE GI-2)							
RG-2	15+23.17	RT-19.53	8" CLEANOUT W/SWEEP	857.43	855.05	2.38	INSTALL SWEEP & CAP
SPRING CT							
S-30	70+18.12	LT-15.18	3X3 STORM SAS	860.61	856.00	4.61	W/R-1550-0054
S-30A	70+30.90	LT-16.40	H INLET	860.89	856.89	4.00	W/R-3067-7004V
S-31	70+33.59	RT-15.28	H INLET	861.80	856.63	5.17	W/R-3067-7004V
S-32	70+75.00	RT-11.50	H INLET	860.76	858.10	2.66	LP;FP; W/R-3067-7004VB; [2]
RAINGARDEN (SPRING CT & LMD - EXISTING)							
RG-7	(LMD) 17+04.69	LT-23.15	12" PIPE COLLAR	-	862.58	-	CONNECT TO EX 12"PVC
RG-7A	70+50.95	RT-25.46	8" STORM TAP	-	856.70	-	TAP ADJ-7
RG-7B	70+69.71	RT-16.15	12" PIPE COLLAR	-	858.00	-	CONNECT TO EX 12"PVC
MINOCQUA CRES							
S-40	60+93.67	RT-6.77	4X4 STORM SAS	864.42	858.29	6.13	W/R-1550-0054
S-40A	60+97.55	RT-15.51	H INLET	864.40	861.24	3.16	LP; W/R-3067-7004VB; [1]
S-40B	60+88.10	LT-14.20	H INLET	864.57	861.41	3.16	W/R-3067-7004V; [1]
S-41	60+18.98	RT-8.69	3X3 STORM SAS	870.54	864.41	6.13	W/R-1550-0054
RISSE RD							
S-110	80+97.64	RT-4.95	3X3 STORM SAS	905.89	900.17	5.72	W/R-1550-0054
S-110A	80+95.95	RT-11.44	H INLET	906.18	901.18	5.00	W/R-3067-7004V
S-110B	80+96.52	LT-11.49	H INLET	905.68	900.93	4.75	W/R-3067-7004V
LAKE MENDOTA DR (SPRING HARBOR OUTLET TO SPRING HARBOR DR)							
T-20	14+37.78	RT-18.48	24" STORM TAP	-	851.79	-	TAP EX IN3347-019 (ADJ-20)
# S-20	14+17.39	RT-8.29	6X6 CB W/ 3' SUMP	857.26	852.00	5.26	FP; W/TWO R-1550-0054; [6]
S-21	13+73.76	CL	3X3 STORM SAS	856.90	853.58	3.32	FP; W/R-1689-0054
S-21A	13+71.97	LT-12.50	H INLET	856.66	853.89	2.77	LP;FP; W/R-3067-7004VB
S-21B	13+78.38	LT-12.50	H INLET	856.70	854.42	2.28	FP; W/R-3067-7004V
S-21C	13+65.78	LT-12.50	H INLET	856.69	854.42	2.27	FP; W/R-3067-7004V
S-21D	13+71.84	RT-14.50	H INLET	857.16	854.19	2.97	LP; FP; W/R-3067-7004VB
S-21E	13+77.53	RT-14.50	H INLET	857.19	854.22	2.97	FP; W/R-3067-7004V
S-22	13+06.02	LT-1.30	3X3 STORM SAS	857.24	854.23	3.01	FP; W/R-1550-0054
S-22A	13+03.48	LT-12.50	H INLET	857.08	854.79	2.29	FP; W/R-3067-7004V
S-23	12+36.32	RT-0.11	3X3 STORM SAS	857.78	854.68	3.10	FP; W/R-1550-0054
# S-24	11+97.67	RT-20.03	3x3 STORM SAS	858.89	855.00	3.89	FP; W/R-3067-7004V
S-24A	11+97.64	LT-12.50	H INLET	857.98	855.48	2.50	W/R-3067-7004V
SPRING HARBOR DR							
S-25	51+29.72	RT-23.99	H INLET	859.94	855.11	4.83	W/R-3067-7004V; [1]
S-26	51+22.11	LT-26.42	H INLET	859.55	855.36	4.19	W/R-3067-7004V; [1]
S-27	51+14.08	LT-25.81	H INLET	859.78	857.61	2.17	FP; W/R-3067-7004V; [1][3]
RAINGARDEN (SPRING HARBOR DR, SEE GI-1)							
RG-1	51+13.60	LT-48.70	PIPE END	-	857.61	-	-
RG-1A	51+16.97	LT-55.98	8" CLEANOUT W/SWEEP	857.00	855.58	1.42	INSTALL SWEEP & CAP
RG-1B	51+18.68	LT-46.13	8" OUTLET ON RISER	858.00	855.53	2.47	8" BELL GRATE
RG-1C	10+78.80	RT-40.58	PIPE END	-	857.50	-	INSTALL SCREW CAP
RG-1D	10+99.45	RT-53.47	PIPE END	-	857.50	-	INSTALL SCREW CAP

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
RAINGARDEN (5209 LMD, SEE GI-2)										
RG-2	S-2A	RG-2	855.00	855.05	7	6	0.82%	8"	PVC	-
SPRING CT										
P-30	S-3	S-30	856.67	856.00	28	22	1.50%	18"	RCP	-
P-30A	S-30	S-30A	856.50	856.89	13	10	3.98%	12"	RCP	-
P-31	S-30	S-31	856.25	856.63	34	32	1.21%	15"	RCP	-
P-32	S-31	S-32	856.88	858.51	35	32	5.15%	12"	RCP	-
RAINGARDEN (SPRING CT & LMD - EXISTING)										
RG-7	RG-7	S-5A	862.58	862.69	21	20	0.56%	8"	PVC	NCM; [4]
RG-7A	S-31	RG-7A	856.63	856.70	13	12	0.56%	8"	PVC	NCM
RG-7B	RG-7B	S-32	858.00	858.10	7	5	1.84%	8"	PVC	[4]
MINOCQUA CRES										
P-40	S-4	S-40	856.10	858.29	25	20	10.72%	36"	RCP	-
P-40A	S-40	S-40A	860.29	861.24	9	6	15.35%	12"	RCP	-
P-40B	S-40	S-40B	860.29	861.41	22	19	5.96%	12"	RCP	-
P-41	S-40	S-41	858.39	864.41	73	70	8.61%	36"	RCP	-
RISSE RD										
P-110X	S-11X	S-110	897.62	900.17	35	32	7.94%	18"	RCP	-
P-110A	S-110	S-110A	900.67	901.18	7	4	12.00%	12"	RCP	-
P-110B	S-110	S-110B	900.67	900.93	16	14	1.86%	12"	RCP	-
LAKE MENDOTA DR (SPRING HARBOR OUTLET TO SPRING HARBOR DR)										
P-20	T-20	S-20	851.79	852.00	24	22	0.94%	24"	RCP	-
P-21	S-20	S-21	852.10	853.58	44	41	3.59%	24"	RCP	-
P-21A	S-20	S-21A	853.83	853.89	13	10	0.60%	18"	RCP	NCM
P-21B	S-21A	S-21B	854.39	854.42	6	3	1.03%	12"	RCP	-
P-21C	S-21A	S-21C	854.39	854.42	6	3	1.03%	12"	RCP	-
P-21D	S-21	S-21D	854.08	854.19	15	12	0.91%	12"	RCP	NCM
P-21E	S-21D	S-21E	854.19	854.22	6	3	1.00%	12"	RCP	-
P-22	S-21	S-22	853.83	854.23	67	64	0.62%	18"	RCP	NCM
P-22A	S-22	S-22A	854.73	854.79	11	9	0.67%	12"	RCP	-
P-23	S-22	S-23	854.33	854.68	69	66	0.53%	18"	RCP	-
P-24	S-23	S-24	854.78	855.00	45	42	0.53%	18"	RCP	-
P-24A	S-24	S-24A	855.32	855.48	33	29	0.54%	12"	RCP	NCM
SPRING HARBOR DR										
P-25	S-24	S-25	855.00	855.11	22	19	0.59%	12"	RCP	NCM
P-26	S-25	S-26	855.11	855.36	51	49	0.51%	12"	RCP	NCM
RAINGARDEN (SPRING HARBOR DR, SEE GI-1)										
RG-1	RG-1	S-27	857.50	857.61	23	22	0.50%	8"	PVC	-
RG-1A	RG-1B	RG-1A	855.53	855.58	10	10	0.50%	8"	UD	-
RG-1B	S-26	RG-1B	855.43	855.53	20	19	0.53%	8"	PVC	NCM
RG-1C	RG-1C	RG-1D	857.50	857.50	24	24	0.00%	8"	PVC	[5]

SPECIFIC NOTES:

- [1] PROP H INLET AT REGULAR TYPE A CURB; CASTING HEIGHT IS 13"
- [2] STRUCTURE OUTLETS TO RAINGARDEN 1' BELOW 12" RCP; EI & DEPTH GIVEN IN CHART IS INVERT FOR RGP-7B
- [3] INTENDED AS STORMWATER COLLECTION INLET DISCHARGING TO RAINGARDEN
- [4] DISCHARGE TO RAINGARDEN
- [5] INTENDED TO BE EQUALIZER PIPE FOR FUTURE RAINGARDEN CONSTRUCTION
- [6] INSTALL 3-FT SUMP BELOW INVERT GIVEN IN CHART

STORM SEWER SCHEDULE

NOTE: R-3067-7004 FRAMES WILL BE PLACED AT MODIFIED TYPE A CURB; CASTING HEIGHT IS 2" LOWER THAN TYPICAL FOR TYPE A CURB

PROJECT NAME	SHEET NO.
PROJECT NO. 14082	U-18
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-18

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
LAKE MENDOTA DR (5010 LMD TO MERRILL SPRINGS RD)							
T-50	30+76.99	LT-22.64	36" STORM TAP	-	877.84	-	TAP IN3447-021; [1]
S-50	30+78.51	LT-10.50	6X6 CB W/SUMP	884.25	878.15	6.10	FP; [2]
S-51	30+09.18	LT-12.50	3X3 STORM SAS	886.99	882.66	4.33	W/R-3067-7004V
S-52	29+64.36	RT-11.61	3X3 STORM SAS	890.13	885.80	4.33	W/R-3067-7004V
S-53	28+46.83	RT-12.50	3X3 STORM SAS	897.95	893.41	4.54	W/R-3067-7004V
S-53A	28+42.89	LT-12.50	H INLET	897.74	894.57	3.17	W/R-3067-7004V
S-54	27+99.90	RT-12.50	3X3 STORM SAS	901.40	896.50	4.90	W/R-3067-7004V
S-54A	27+99.90	LT-9.50	H INLET	900.81	897.64	3.17	W/R-3067-7004V
S-55A	27+34.50	CL	3X3 STORM SAS	904.71	901.62	3.09	FP; W/R-1550-0054
S-55B	27+23.99	RT-12.50	H INLET	905.63	902.63	3.00	LP; W/R-3067-7004VB
MERRILL SPRINGS RD							
S-55	91+38.22	LT-0.20	3X3 STORM SAS	903.92	900.25	3.67	FP; W/R-1550-0054
S-56	90+88.79	RT-11.89	3X3 STORM SAS	908.31	904.31	4.00	W/R-3067-7004V
S-57	90+74.62	LT-11.81	H INLET	910.50	906.96	3.54	W/R-3067-7004V
S-58	90+34.06	LT-11.50	3X3 STORM SAS	913.99	910.16	3.83	W/R-3067-7004V
LAKE MENDOTA DR (5010 LMD TO SHOREWOOD HILLS)							
S-60	31+36.23	LT-24.28	18" PIPE COLLAR	-	879.38	-	CONNECT TO EX 18" PVC
S-70	31+36.01	LT-12.37	5X5 STORM SAS	883.32	878.29	5.03	FP; W/R-3067-7004V
S-70A	31+37.27	RT-11.22	H INLET	883.77	878.29	5.48	W/R-3067-7004V
S-70B	31+60.61	RT-10.65	H INLET	883.69	880.70	2.99	LP; W/R-3067-7004VB
S-70C	31+60.64	LT-12.35	SADDLED H INLET TYP 1	883.19	879.61	3.58	LP; FP; W/R-3067-7004VB
S-71	32+81.52	LT-12.61	5X5 STORM SAS	884.19	879.01	5.18	FP; W/R-3067-7004V
S-72	33+86.92	LT-13.00	5X5 STORM SAS	883.95	879.53	4.42	LP; FP; W/R-3067-7004VB
S-72A	33+95.91	LT-13.00	H INLET	884.08	881.33	2.75	FP; W/R-3067-7004V
S-73	33+90.37	LT-2.75	3X3 STORM SAS	884.13	880.06	4.07	FP; W/R-1550-0054
S-73A	33+91.58	RT-1.54	15" PIPE COLLAR	-	881.24	-	CONNECT TO EX 15" RCP
S-74	34+85.25	LT-2.25	3X3 STORM SAS	886.35	881.72	4.63	W/R-1550-0054
S-74A	34+86.38	LT-10.00	H INLET	886.35	883.02	3.33	W/R-3067-7004V
S-75	35+88.01	LT-2.25	3X3 STORM SAS	890.20	885.57	4.63	W/R-1550-0054
S-75A	35+89.27	LT-10.18	H INLET	890.21	886.88	3.33	W/R-3067-7004V
S-76	36+74.14	LT-2.25	3X3 STORM SAS	893.78	889.49	4.29	W/R-1550-0054
S-77	37+46.76	LT-12.51	3X3 STORM SAS	896.13	890.72	5.41	W/R-3067-7004V
S-78	37+85.58	LT-2.25	3X3 STORM SAS	897.34	891.12	6.22	W/R-1550-0054
S-78A	37+90.09	LT-12.50	H INLET	897.28	894.11	3.17	W/R-3067-7004V
S-79	38+69.28	LT-2.17	3X3 STORM SAS	897.21	892.04	5.17	W/R-1550-0054
S-79A	38+73.67	LT-12.50	H INLET	897.03	893.86	3.17	W/R-3067-7004V
S-80	40+04.02	LT-2.08	3X3 STORM SAS	896.15	892.97	3.18	W/R-1550-0054
S-81	40+08.26	LT-12.33	H INLET	895.99	893.13	2.86	LP; FP; W/R-3067-7004VB

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
LAKE MENDOTA DR (5010 LMD TO MERRILL SPRINGS RD)										
P-50	T-50	S-50	877.84	878.15	12	9	3.35%	36"	RCP	-
P-51	S-50	S-51	879.15	882.66	69	65	5.40%	24"	RCP	-
P-52	S-51	S-52	882.76	885.80	51	48	6.35%	24"	RCP	-
P-53	S-52	S-53	885.90	893.41	117	115	6.56%	24"	RCP	-
P-53A	S-53	S-53A	884.41	894.57	25	23	0.70%	12"	RCP	-
P-54	S-53	S-54	893.51	896.50	47	44	6.77%	24"	RCP	-
P-54A	S-54	S-54A	897.50	897.64	22	20	0.72%	12"	RCP	-
P-55A	S-55	S-55A	901.25	901.62	30	27	1.38%	12"	RCP	-
P-55B	S-55A	S-55B	901.72	902.63	16	13	6.76%	12"	RCP	-
MERRILL SPRINGS RD										
P-55	S-54	S-55	897.00	900.25	38	36	9.12%	18"	RCP	-
P-56	S-55	S-56	900.35	904.31	49	46	8.56%	18"	RCP	-
P-57	S-56	S-57	904.41	906.96	28	25	10.26%	18"	RCP	-
P-58	S-57	S-58	907.06	910.16	43	40	7.78%	18"	RCP	-
LAKE MENDOTA DR (5010 LMD TO SHOREWOOD HILLS)										
P-60	S-60	S-70	879.38	879.79	12	9	4.33%	18"	RCP	-
P-70	S-50	S-70	878.15	878.29	57	52	0.27%	36"	RCP	-
P-70A	S-70	S-70A	880.29	880.70	24	19	2.20%	12"	RCP	-
P-70B	S-70A	S-70B	880.70	880.82	23	19	0.62%	12"	RCP	-
P-71	S-70	S-71	878.29	879.01	145	140	0.52%	29"x45"	HERCP	-
P-72	S-71	S-72	879.01	879.53	105	100	0.52%	29"x45"	HERCP	-
P-72A	S-72	S-72A	880.95	881.33	9	5	7.52%	12"	RCP	-
P-73	S-72	S-73	879.74	880.06	11	7	4.81%	24"	RCP	-
P-73A	S-73	S-73A	881.07	881.24	4	3	5.82%	15"	RCP	-
P-74	S-73	S-74	880.31	881.72	95	92	1.53%	21"	RCP	-
P-74A	S-74	S-74A	882.47	883.02	8	5	10.17%	12"	RCP	-
P-75	S-74	S-75	881.72	885.57	103	100	3.85%	21"	RCP	-
P-75A	S-75	S-75A	886.32	886.88	8	6	10.02%	12"	RCP	-
P-76	S-75	S-76	885.82	889.49	86	83	4.42%	18"	RCP	-
P-77	S-76	S-77	889.49	890.72	73	70	1.77%	18"	RCP	-
P-78	S-77	S-78	890.82	891.12	40	37	0.82%	18"	RCP	-
P-78A	S-78	S-78A	894.03	894.11	11	8	0.95%	12"	RCP	NCM
P-79	S-78	S-79	891.37	892.04	83	80	0.83%	15"	RCP	-
P-79A	S-79	S-79A	893.78	893.86	11	8	0.95%	12"	RCP	NCM
P-80	S-79	S-80	892.29	892.97	135	132	0.52%	12"	RCP	-
P-81	S-80	S-81	893.07	893.13	11	8	0.72%	12"	RCP	-

SPECIFIC NOTES:

- [1] EX IN3447-021 IS A 4" DIA NYLOPLAST SAS W/R4349-D; SEE ADJ-1 (SHEET U-19)
- [2] INSTALL R-3067-7004V & R-10550-054; INSTALL 5-FT SUMP BELOW INVERT GIVEN IN CHART; CENTER R-3067 CASTING AT STA 30+78.55, LT-12.50, TOC = 884.25; CENTER R-1550 CASTING AT STA 30+78.55, LT-8.91, TOC = 884.13

STORM SEWER SCHEDULE

ADDENDUM 1 - 2/21/2023 DAO

PROJECT NAME	SHEET NO.
PROJECT NO. 14082	U-19
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-19

STORM STRUCTURE ADJUSTMENTS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	EX TOC	PROP TOC ADJ (FT)	NOTES
LAKE MENDOTA DR (14+75 TO 18+50)						
ADJ-1	M3347-026	14+46.06	LT-32.41	857.53	857.53 0.00	[1]
LAKE MENDOTA DR (13+50 TO 14+75)						
ADJ-20	IN3347-019	14+37.78	RT-18.48	856.15	857.58 1.43	[2]
LAKE MENDOTA DR (30+75 TO 34+00)						
ADJ-50	IN3447-021	30+76.99	LT-22.67	883.52	884.02 0.50	[3]
SPRING CT						
ADJ-7	IN3347-023	70+51.37	RT-25.57	860.45	860.45 0.00	[6]

STORM STRUCTURE REMOVALS & ABANDONMENTS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH (FT)	NOTES
LAKE MENDOTA DR (14+75 TO 18+50)						
RS-1	IN3347-022	16+49.55	RT-19.20	5X7 CB	5.56	-
RS-2	AS3347-027	16+78.60	RT-14.86	3X3 STORM SAS	6.82	-
RS-3	AS3347-021	17+24.00	RT-18.34	5X7 CB	6.36	-
RS-9	IN3347-034	17+04.66	LT-22.77	H INLET	1.42	-
RS-10	IN3447-001	18+43.84	LT-25.45	H INLET	3.24	-
# RS-11	IN3447-002	18+26.13	RT-27.61	H INLET	UNKN	[4]
SPRING CT						
RS-9	IN3347-033	70+69.87	RT-12.03	H INLET	3.00	-
MINOCQUA CRES						
RS-4	AS3347-028	60+90.00	RT-1.79	3X3 STORM SAS	4.00	-
RS-5	IN3347-029	60+89.47	RT-14.30	H INLET	3.16	-
RS-6	IN3347-030	60+89.77	LT-14.29	H INLET	2.68	-
LAKE MENDOTA DR (13+50 TO 14+75)						
RS-20	IN3347-019	14+28.14	RT-32.40	3X3 INLET	5.61	-
RS-21	IN3347-018A	13+71.87	RT-17.64	H INLET	3.37	[8]
RS-22	IN3347-018B	13+68.64	RT-17.46	H INLET	3.37	[8]
RS-23	IN3347-017	13+71.99	LT-18.21	H INLET	2.65	-
RISSE RD & LAKE MENDOTA DR (23+25 TO 24+00)						
ABN-1	AS3447-004	23+55.54	LT-39.17	5X7 CB	4.35	-
# RS-30	DT3447-003	23+66.95	RT-19.83	BURIED STM SAS	-	[7]
RS-31	UNK INLET	81+13.52	LT-20.07	H INLET	3.00	-
RS-32	UNK INLET	81+13.28	RT-36.97	H INLET	3.00	-
MERRILL SPRINGS RD & LAKE MENDOTA DR (27+00 TO 28+25)						
RS-40	UNK SAS	27+87.10	RT-25.96	3X3 STORM SAS	4.98	-
RS-40C	UNK CULVERT	27+09.63	RT-37.61	PIPE END	-	-
RS-41	UNK INLET	27+94.88	RT-24.62	INLET	4.10	-
RS-41C	UNK CULVERT	28+35.60	RT-19.23	PIPE END	-	-
LAKE MENDOTA DR (30+75 TO 34+00)						
RS-50	IN3447-017	31+37.25	LT-16.93	3X3 INLET	2.28	-
RS-51	IN3447-012	31+19.64	LT-16.98	24 FT PIPE DRAIN	-	ALSO IN3447-013; PAID AS PIPE REM
RS-52	IN3447-014	31+51.77	LT-16.77	20 FT PIPE DRAIN	-	PAID AS PIPE REM
RS-53	IN3447-016	31+37.47	RT-4.56	3X3 STORM SAS	2.95	-
RS-53C	UNK CULVERT	31+37.20	RT-13.64	UNK PIPE END	-	-
RS-54	IN3547-001	32+22.51	RT-3.23	3X3 STORM SAS	3.14	-
RS-55	IN3547-002	33+91.58	RT-1.54	3X3 STORM SAS	3.00	-
RS-56	IN3547-003	33+86.98	LT-20.00	TERRACE INLET TYPE 1.261	-	-

STORM PIPE REMOVALS & ABANDONMENTS

PIPE REMOVAL	REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM PAID (FT)	LGTH ABN (FT)	LGTH SLURRY (CY)	PIPE SIZE	PIPE TYPE	NOTES
LAKE MENDOTA DR (14+75 TO 18+50)										
RP-1	S-0	RS-1	137	Y	107			24"X24"	RCBC	-
RP-2	RS-1	RS-2	31	Y	31			24"X24"	RCBC	-
RP-3	RS-2	RS-3	48	Y	48			24"X24"	RCBC	-
RP-8	RS-1	ADJ-7	70	Y	39			12"	VCP	[6]
RP-9	RS-3	RS-10	128	Y	73			12"	VCP	-
AP-1	RS-3	RS-11	108	Y	0	0	0	24"	RCP	ABN W/PLUGS; [5]
# RP-9A	RS-3	STA17+25.98, RT26.05	8	Y	8	0	0	12"	VCP	[9]
MINOCQUA CRES										
RP-4	RS-2	RS-4	20	N	0			18"	RCP	-
RP-5	RS-4	RS-5	13	N	0			12"	RCP	-
RP-6	RS-4	S-41	70	Y	31			18"	RCP	-
RP-7	RS-4	RS-6	16	N	0			12"	RCP	-
LAKE MENDOTA DR (13+50 TO 14+75)										
RP-20	ADJ-20	RS-20	17	Y	17			15"	RCP	-
RP-21	RS-20	RS-21	62	Y	63			15"	RCP	3 SECTIONS TOTAL
RP-22	RS-21	RS-23	36	Y	15			12"	RCP	-
RISSE RD & LAKE MENDOTA DR (23+25 TO 24+00)										
AP-2	AS3447-004	ABN-1	172	Y	0	0	0	15"	VCP	ABN W/PLUGS @ ABN-1
# RP-30	ABN-1	RS-30	60	Y	60			24"	RCP	-
# RP-31	RS-30	RS-31	30	Y	30			12"	VCP	-
# RP-32	RS-30	RS-32	33	Y	31			12"	VCP	-
MERRILL SPRINGS RD & LAKE MENDOTA DR (27+00 TO 28+25)										
RP-40	RS-40	RS-40C	79	Y	78			18"	CMP	-
RP-41	RS-41	RS-40	8	N	0			18"	CMP	-
RP-42	RS-41C	RS-41	41	Y	41			12"	CMP	-
LAKE MENDOTA DR (30+75 TO 34+00)										
RP-50	S-60	RS-50	7	N				18"	PVC	-
RP-51	RS-50	RS-51	17	Y	17			12"	PVC	-
RP-52	RS-50	RS-52	14	Y	14			12"	PVC	-
RP-53	RS-50	RS-53	21	N	0			18"	RCP	-
RP-53A	RS-53	RS-53C	9	N	0			18"	RCP	-
RP-54	RS-53	RS-54	85	N	0			18"	RCP	-
RP-55	RS-54	RS-55	169	N	0			18"	RCP	-
RP-56	RS-55	RS-56	22	N	0			15"	RCP	-

SPECIFIC NOTES

- [1] REMOVE & REPLACE CASTING WITH R-1550-0054
- [2] RECONSTRUCT ROOF; ADJUST LOCATION OF CASTING CENTER TO STA 14+37.82, RT-17.82, INSTALL R-1550-0054; 15" STORM PLUG
- [3] EX CASTING IS R-4393-D (42"); REMOVE & SALVAGE; RECONSTRUCT ROOF; INSTALL R-1550-0054
- # [4] IN3447-002 NO LONGER EXISTS
- [5] PLUG PIPE AT STRUCTURES & LATERAL CROSSINGS (APPROX 5 PLUGS)
- [6] SAVE EX CASTING & GRATE. REMOVE PIPE (RP-7) & PLUG AS NEEDED. CONNECT NEW 8" PVC (RGP-7A).
- [7] ADDED TO REMOVE STRUCTURE QUANTITY
- [8] PART OF DOUBLE H INLET
- # [9] PIPE ENDS AT PLUG; CITY-MAPPED INLET IN3347-024 DOES NOT EXIST

STORM SEWER SCHEDULE

ADDENDUM 1 - 2/21/2023 DAO

PROJECT NAME	SHEET NO.
PROJECT NO. 14082	U-20
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-20

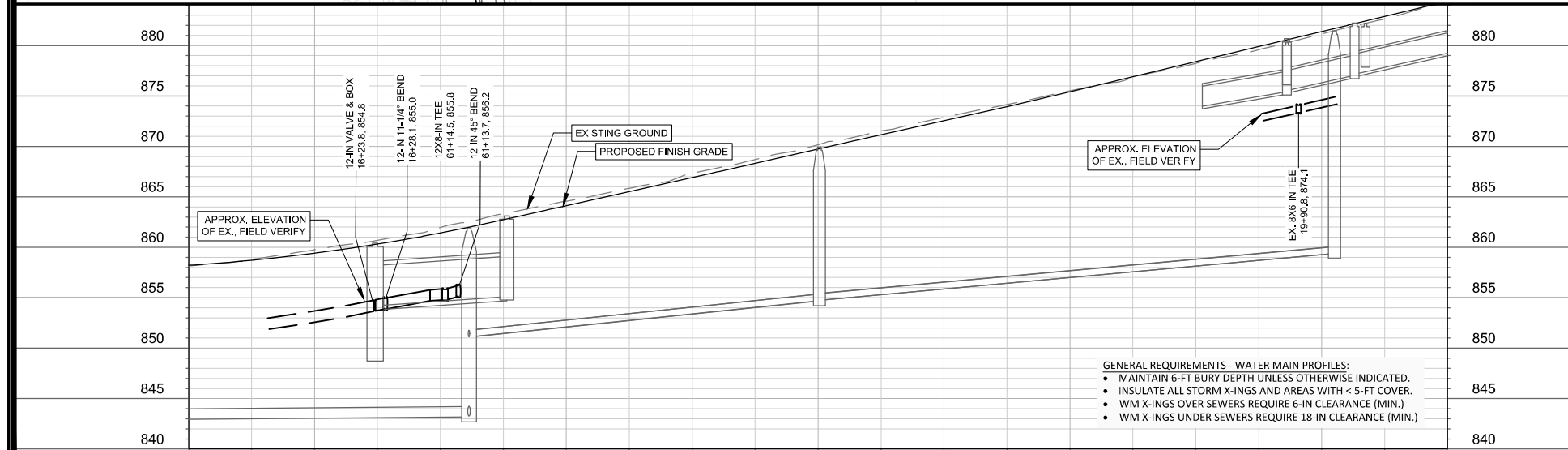
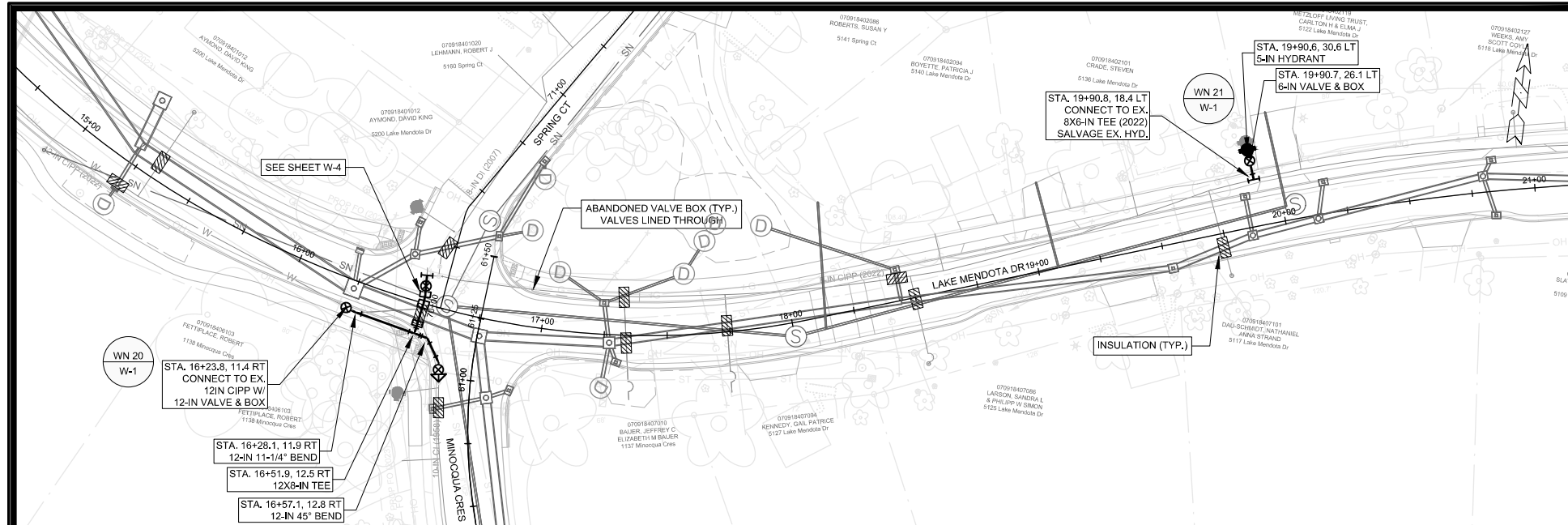
ULO SCHEDULE

ID NO. (OFFSET)	STATION	LOCATION (OFFSET)	TYPE	NOTES
LAKE MENDOTA DR				
# ULOG-1	11+02.58	RT-42.76	GAS	BELOW RAINGARDEN
# ULOG-1A	12+62.29	LT-21.54	GAS	BELOW RAINGARDEN
ULOG-2	14+45.07	LT-25.40	GAS	-
ULOG-3	15+18.73	LT-24.77	GAS	-
ULOG-4	16+20.71	RT-4.51	GAS	-
ULOG-5	16+19.99	LT-15.62	GAS	-
ULOG-6	16+39.27	LT-13.97	GAS	-
ULOG-7	16+62.66	RT-38.52	GAS	ON MINOCQUA CRES
ULOG-8	17+37.61	LT-35.15	GAS	BELOW RAINGARDEN
ULOG-9	18+43.27	LT-14.41	GAS	-
ULOG-10	23+41.57	CL	GAS	-
ULOG-11	23+47.00	RT-51.31	GAS	ON RISSER RD
ULOG-12	27+74.10	RT-12.55	GAS	-
ULOG-13	27+84.05	RT-61.06	GAS	ON MERRILL SPRINGS RD
ULOG-14	30+07.49	LT-13.57	GAS	-
ULOG-15	30+78.53	LT-11.51	GAS	-
ULOG-16	31+37.31	LT-10.75	GAS	-
ULOG-17	32+81.52	LT-11.61	GAS	-
ULOG-18	33+88.09	LT-14.83	GAS	-
ULOG-19	37+46.94	LT-16.29	GAS	-
ULOG-20	39+46.58	LT-19.27	GAS	-

ULO SCHEDULE

ID NO. (OFFSET)	STATION	LOCATION (OFFSET)	TYPE	NOTES
LAKE MENDOTA DR				
ULOW-1	11+50.33	RT-50.82	WATER MAIN	ON SPRING HARBOR DR
ULOW-2	11+97.66	RT-10.49	WATER MAIN	-
ULOW-3	12+16.67	RT-9.12	WATER MAIN	-
ULOW-4	13+71.89	RT-10.35	WATER MAIN	-
ULOW-5	14+29.19	RT-13.11	WATER MAIN	-
ULOW-6	15+23.06	RT-9.24	WATER MAIN	-
ULOW-7	15+32.23	LT-7.10	WATER LAT	-
ULOW-8	16+50.63	RT-4.19	WATER MAIN	-
ULOW-9	16+55.38	LT-24.12	WATER MAIN	-
ULOW-10	16+67.61	RT-38.44	WATER MAIN	ON MINOCQUA CRES
ULOW-11	17+33.79	RT-2.36	WATER LAT	-
ULOW-12	17+19.46	LT-15.31	WATER MAIN	-
ULOW-13	17+31.74	LT-15.48	WATER MAIN	-
ULOW-14	17+34.78	RT-15.11	WATER LAT	-
ULOW-15	17+74.14	LT-2.45	WATER LAT	-
ULOW-16	18+44.22	LT-8.97	WATER MAIN	-
ULOW-17	18+50.00	CL	WATER LAT	-
ULOW-18	19+74.03	RT-5.52	WATER LAT	-
ULOW-19	23+49.47	LT-0.23	WATER MAIN	-
ULOW-20	23+55.40	RT-50.83	WATER MAIN	ON RISSER RD
ULOW-41	27+50.29	RT-7.24	WATER MAIN	-
ULOW-21	27+64.54	RT-75.53	WATER MAIN	ON MERRILL SPRINGS RD
ULOW-22	27+99.90	LT-9.17	WATER MAIN	-
ULOW-23	28+43.69	LT-7.40	WATER MAIN	-
ULOW-24	28+54.85	RT-12.49	WATER LAT	-
ULOW-25	29+91.56	LT-3.02	WATER MAIN	-
ULOW-26	30+56.26	LT-12.35	WATER LAT	-
ULOW-27	30+88.03	LT-12.54	WATER LAT	-
ULOW-28	31+37.41	LT-1.76	WATER MAIN	-
ULOW-29	31+51.32	LT-12.88	WATER LAT	-
ULOW-30	32+25.22	LT-13.76	WATER LAT	-
ULOW-31	32+94.32	LT-12.35	WATER LAT	-
ULOW-32	33+62.95	LT-13.21	WATER LAT	-
ULOW-33	33+81.84	LT-13.05	HYDR	-
ULOW-34	33+88.82	LT-7.37	WATER MAIN	-
ULOW-35	34+86.23	LT-9.00	WATER LAT	-
ULOW-36	37+13.56	LT-8.72	WATER MAIN	-
ULOW-37	37+65.61	LT-7.81	WATER MAIN	-
ULOW-38	37+88.83	LT-9.62	WATER MAIN	-
ULOW-39	38+72.44	LT-9.60	WATER MAIN	-
ULOW-40	40+06.58	LT-8.27	WATER MAIN	-

SPECIFIC NOTES



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

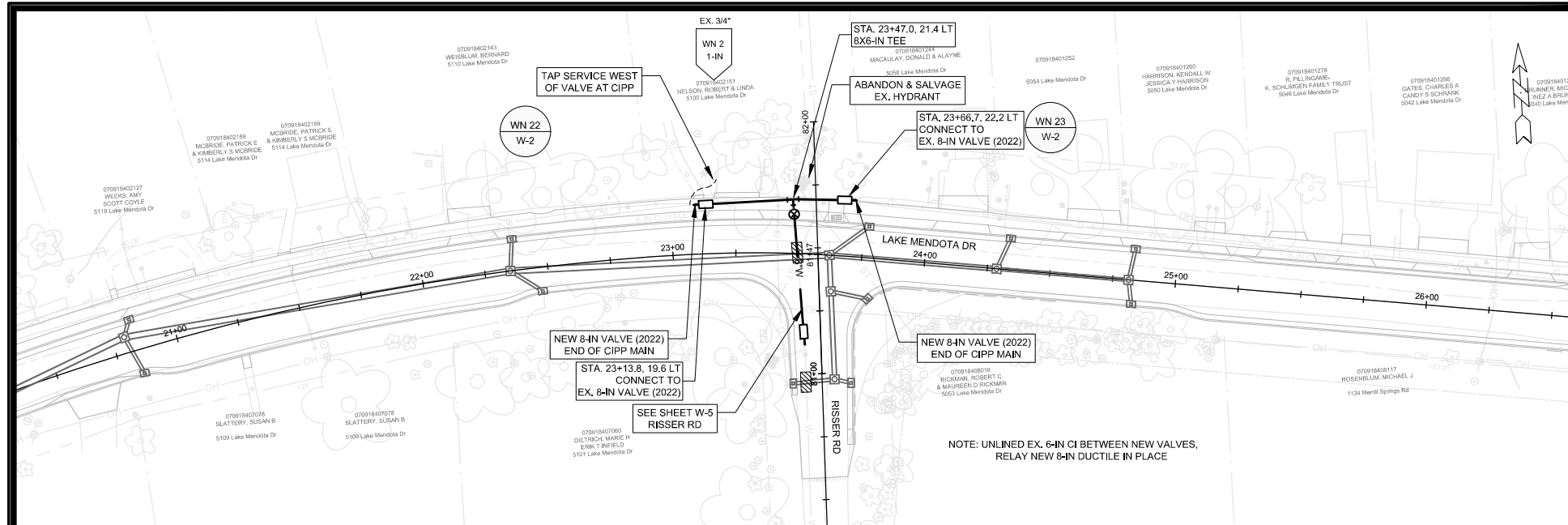
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 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 2/20/23

CONTRACT NO: 8715

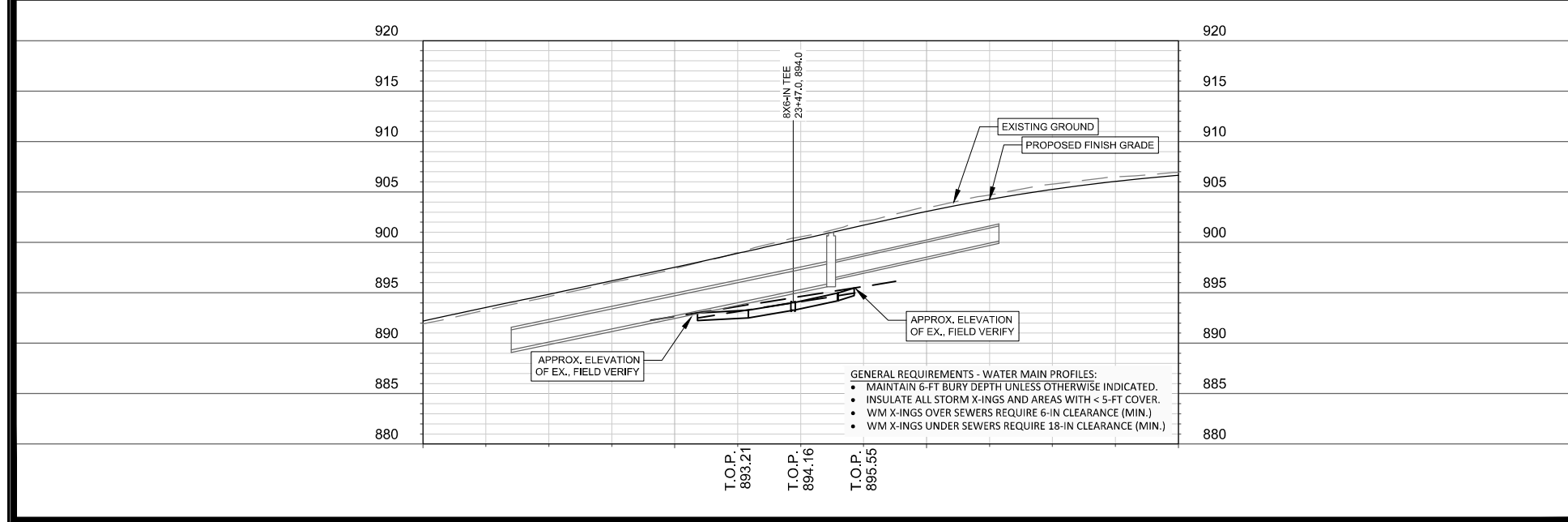
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 LAKE MENDOTA DRIVE - WATER PLAN & PROFILE
 CITY OF MADISON, WISCONSIN



14082
 W-1



NOTE: UNLINED EX. 6-IN CI BETWEEN NEW VALVES, RELAY NEW 8-IN DUCTILE IN PLACE



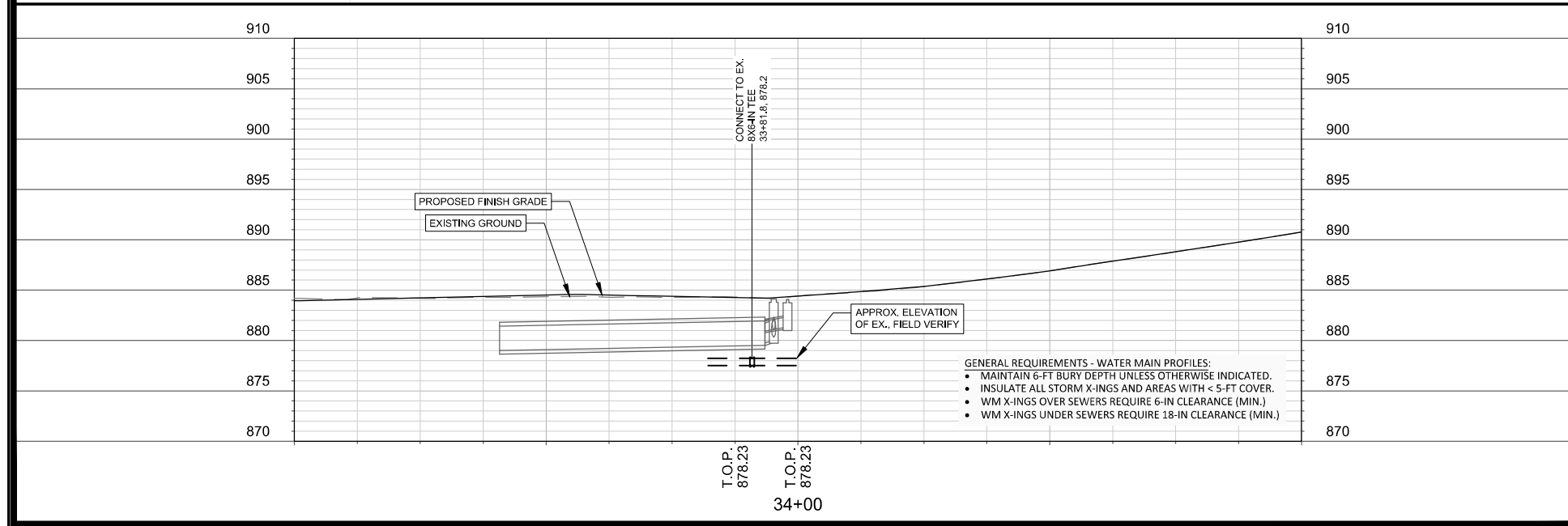
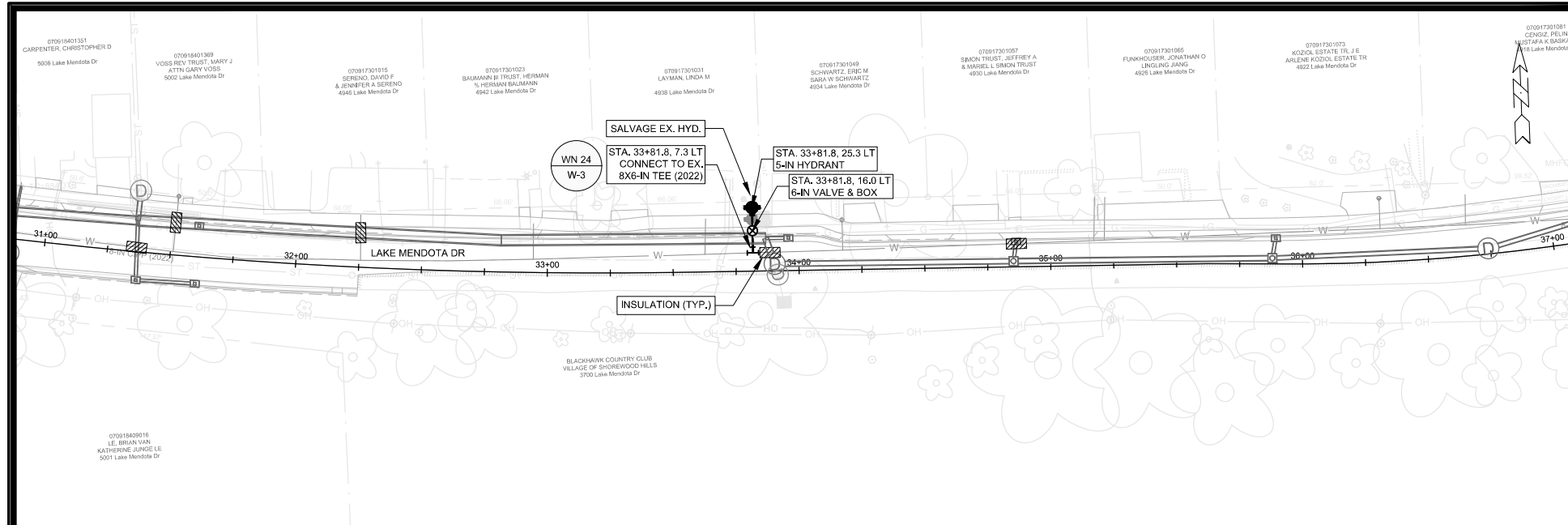
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 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 2/20/23

CONTRACT NO: 8715

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 LAKE MENDOTA DRIVE - WATER PLAN & PROFILE
 CITY OF MADISON, WISCONSIN



14082
 W-2

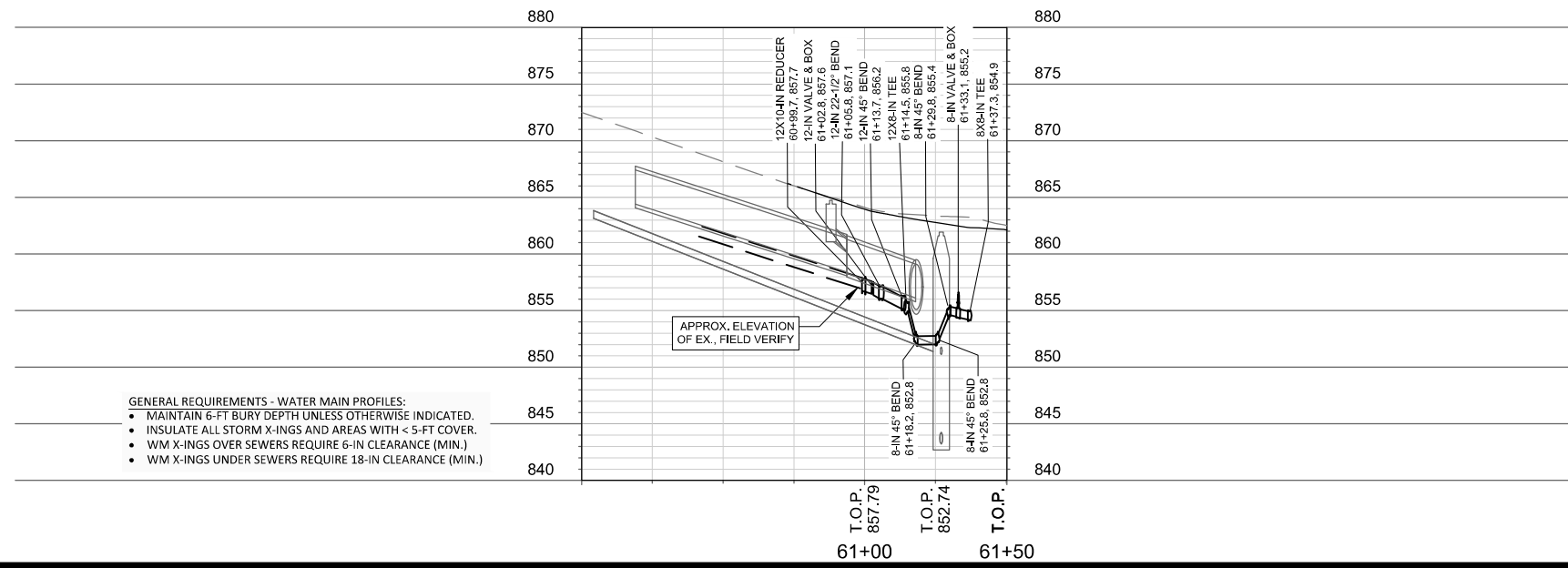
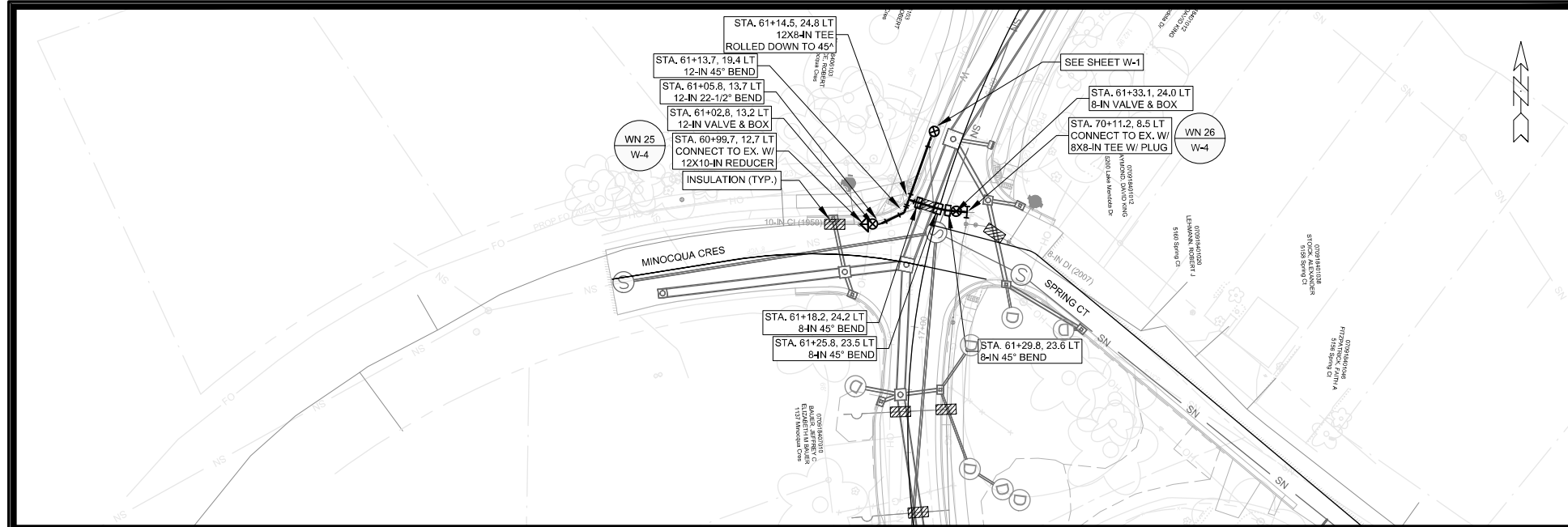


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 DESIGNED BY: TDP
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 2/2/23

CONTRACT NO: 8715

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 LAKE MENDOTA DRIVE - WATER PLAN & PROFILE
 CITY OF MADISON, WISCONSIN

14082
 W-3



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

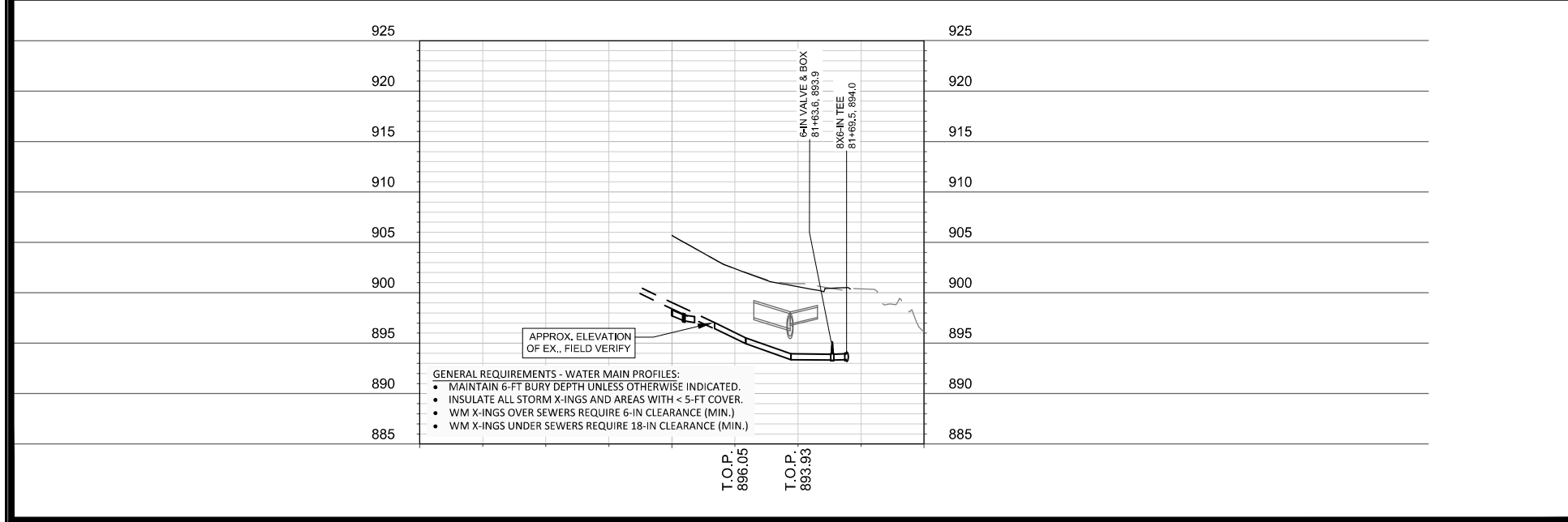
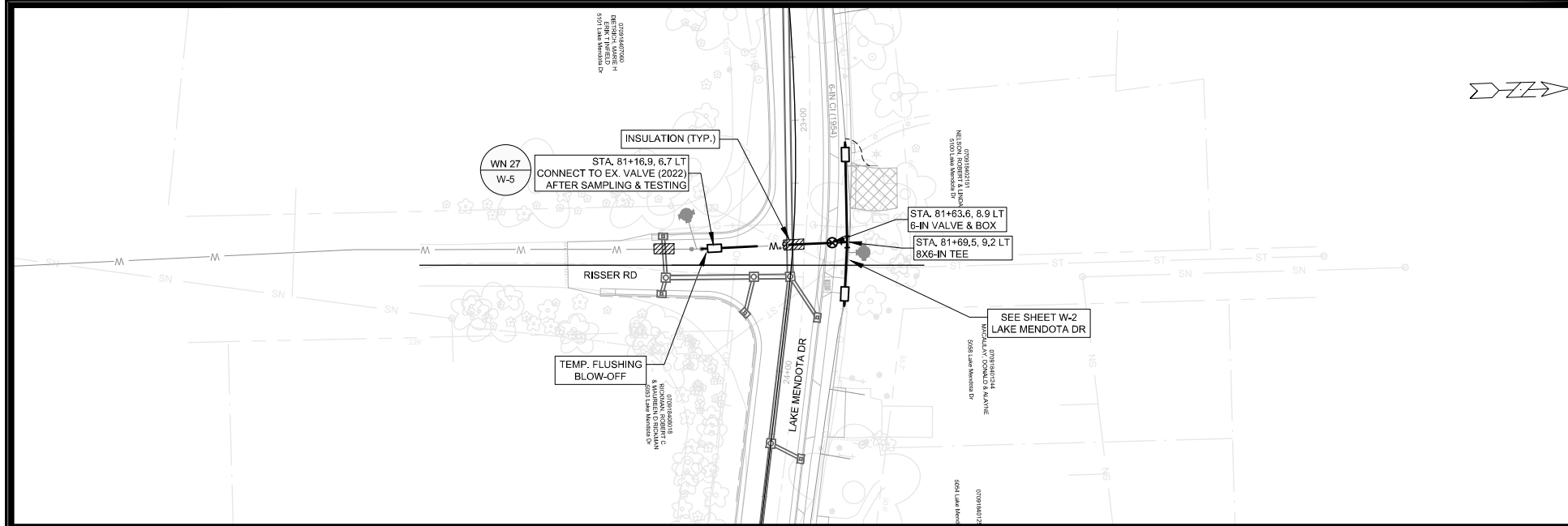
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 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 2/20/23

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 MINOCQUA CRES - WATER PLAN & PROFILE
 CITY OF MADISON, WISCONSIN



14082
 W-4

CONTRACT NO: 8715



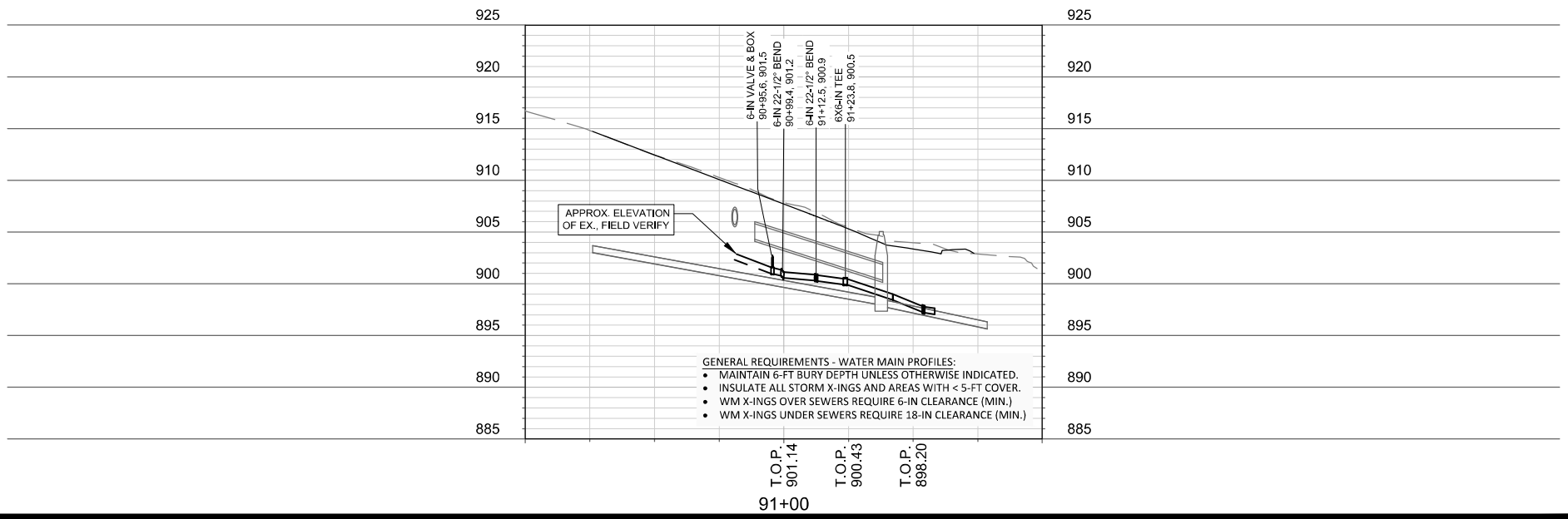
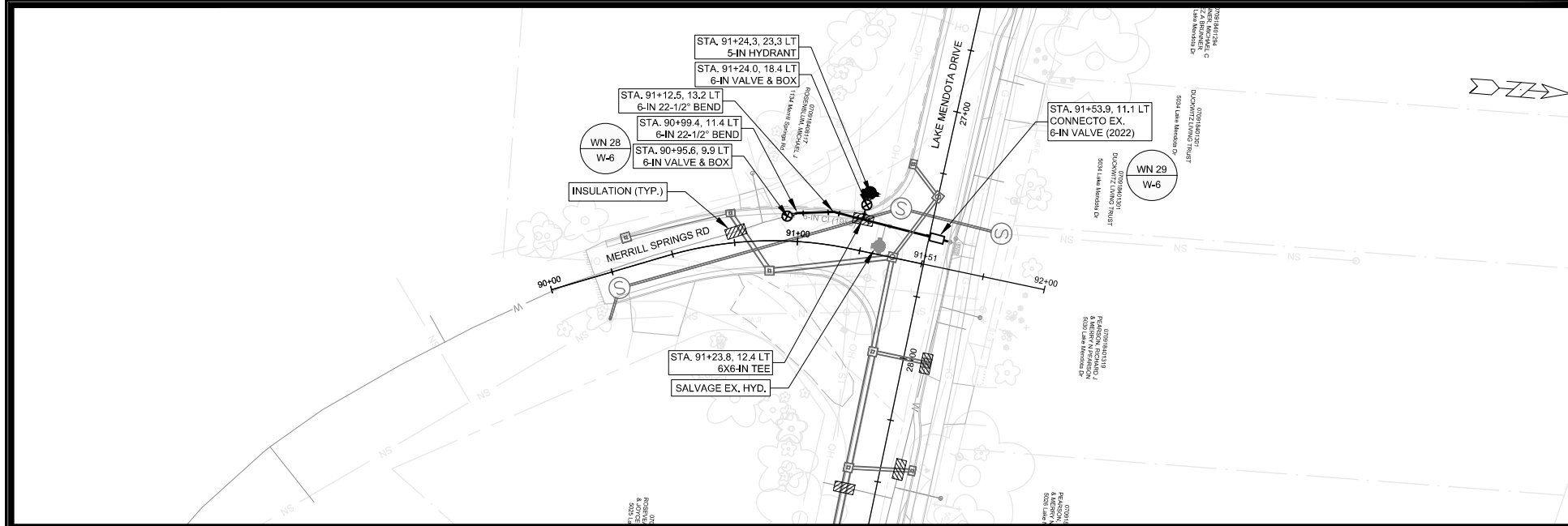
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MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 2/23/23

CONTRACT NO. 8715

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
RISSEY ROAD - WATER PLAN & PROFILE
CITY OF MADISON, WISCONSIN



14082
W-5



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

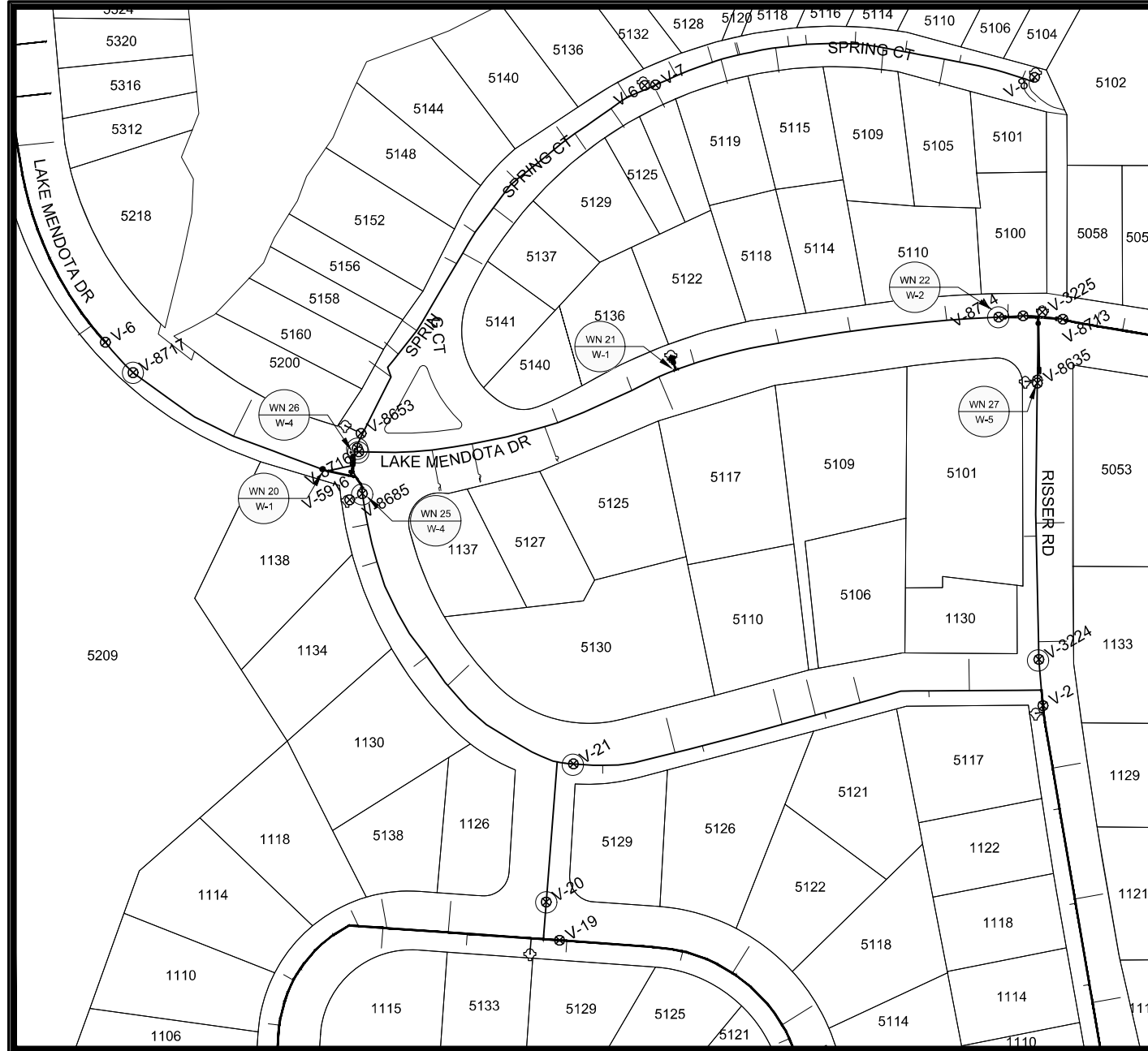
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 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 2/2023

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 MERRILL SPRINGS ROAD - WATER PLAN & PROFILE
 CITY OF MADISON, WISCONSIN

CONTRACT NO: 8715

14082
 W-6





1" = 100'

WN 20 W-1, CUT IN CONNECT AT 12IN CIPP LAKE MENDOTA DR
ISOLATION VALVES: V-8717, V-8716, V-8715, V-8685
NOTIFY: 5200 LAKE MENDOTA DR, AND 5101 - 5160 LAKE MENDOTA DR

WN 21 W-1, CUT IN CONNECT AT 19+90.6 EX. HYDRANT TEE
ISOLATION VALVES: V-8716 AND V-8714
NOTIFY: 1137 MINOCQUA CRES AND 5100 - 5140 LAKE MENDOTA DR

WN 22 W-2 CUT IN CONNECT AT EX. VALVE V-8714
ISOLATION VALVES: V-8716, V-8714, V-8713, AND V-8634
NOTIFY: 1137 MINOCQUA CRES AND 5100 - 5140 LAKE MENDOTA DR

WN 25 W-4, CUT IN CONNECT AT EX. 10IN MINOCQUA CRES
ISOLATION VALVES: V-8717, V-8716, V-8715, V-20, AND V-21
NOTIFY: 5200 LAKE MENDOTA DR, 5101 - 5160 SPRING CT, AND 5130, 1130, 1134, AND 1138 MINOCQUA CRES

WN 26 W-4, CUT IN CONNECT AT EX. 8IN SPRING CT
ISOLATION VALVES: V-8715, V-8716, V-8717, AND V-8685
NOTIFY: 5200 LAKE MENDOTA DR, AND 5101 - 5160 SPRING CT

WN 27 W-5, CUT IN CONNECT AT EX. 6IN RISSER RD
ISOLATION VALVES: V-8713, V-8714, AND V-3224
NOTIFY: 1133 RISSER RD AND 5033 AND 5105 LAKE MENDOTA DR

DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

SCALE: 1" = 100'
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 1/30/2023

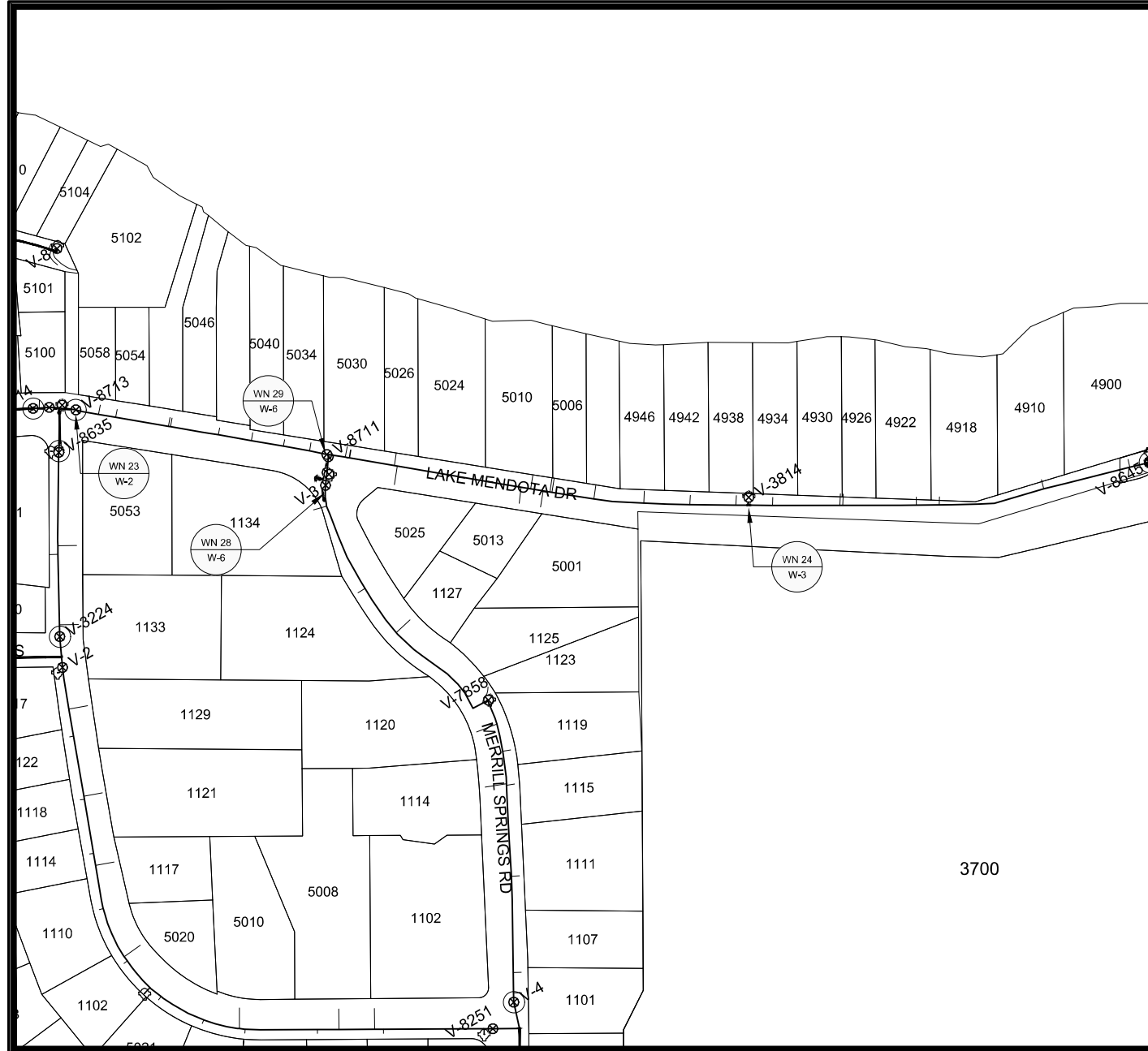
CONTRACT NO: 8715

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
WATER IMPACT PLAN LAKE MENDOTA DRIVE WEST
CITY OF MADISON, WISCONSIN



14082
W-7

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WN 23 W-2, CUT IN CONNECT AT EX. VALVE V-8713
ISOLATION VALVES: V-8714, V-8634, AND V-8711
NOTIFY: 5034 - 5058 LAKE MENDOTA DR

WN 24 W-3, CUT IN CONNECT TO EX. HYDRANT TEE AT 4938 LAKE MENDOTA DR
ISOLATION VALVES: V-8711, V-8712, AND V-8645
NOTIFY: 4900 - 5030 LAKE MENDOTA DR AND VILLAGE OF SHOREWOOD HILLS
DEPARTMENT OF PUBLIC WORKS

WN 28 W-6 CUT IN CONNECT AT EX. 6-IN AT MERRILL SPRINGS
ISOLATION VALVES: V-8712, AND V-4 AT RISSER & MERRILL SPRINGS
NOTIFY: 1101 - 1134 MERRILL SPRINGS RD

WN 29 W-6 CUT IN CONNECT TO EX. 6-IN VALVE AT MERRILL SPRINGS AND LAKE MENDOTA DR
ISOLATION VALVES: V-8712, AND V-4 AT RISSER & MERRILL SPRINGS
NOTIFY: 1101 - 1134 MERRILL SPRINGS RD

DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

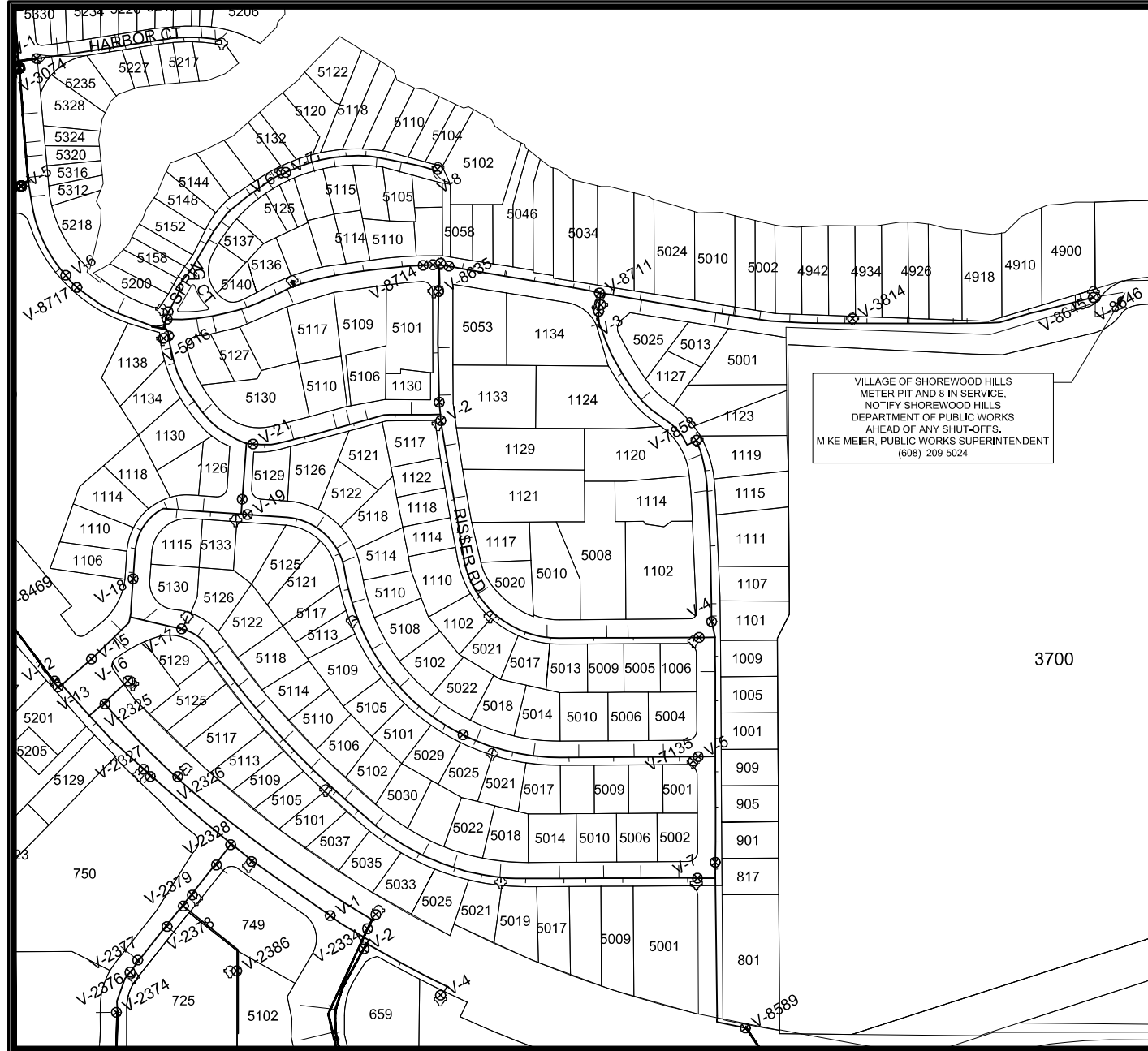
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DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 1/30/2023

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
WATER IMPACT PLAN LAKE MENDOTA DR EAST
CITY OF MADISON, WISCONSIN

CONTRACT NO: 8715

14082
W-8

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1" = 250'



VILLAGE OF SHOREWOOD HILLS
 METER PIT AND 8-IN SERVICE.
 NOTIFY SHOREWOOD HILLS
 DEPARTMENT OF PUBLIC WORKS
 AHEAD OF ANY SHUT-OFFS.
 MIKE MEIER, PUBLIC WORKS SUPERINTENDENT
 (608) 209-5024

DISCLAIMER NOTE:
 THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
 TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING
 NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
 ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

SCALE: 1" = 250'
 DESIGNED BY: TDP
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 1/30/2023

CONTRACT NO: 8715

LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 WATER IMPACT PLAN PROJECT OVERVIEW
CITY OF MADISON, WISCONSIN



14082
 W-9

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CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.

- | | |
|--------|---|
| WN1 | REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE. |
| WN-2 | EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN. |
| WN-3 | EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF. |
| WN-4 | DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN. |
| WN-5 | RELOCATE THE EXISTING FIRE HYDRANT. |
| WN-6 | ABANDON WATER VALVE ACCESS STRUCTURE. |
| WN-7 | FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE. |
| WN-8 | ABANDON THE VALVE BOX. |
| WN-9 | FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL. |
| WN-10 | REMOVE AND SALVAGE EXISTING HYDRANT |
| WN-11 | REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE |
| WN-20+ | SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION. |

WATER UTILITY ULO SCHEDULE

ULO	UTILITY	STATION	OFFSET	SHEET
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***ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

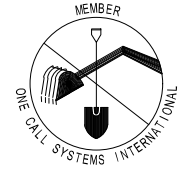
PAY ITEM ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	180	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	100	LNFT
70005	FURNISH AND INSTALL 12-INCH PIPE & FITTINGS	60	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	5	EACH
70034	FURNISH AND INSTALL 12-INCH WATER VALVE	3	EACH
70040	FURNISH AND INSTALL AND SALVAGE HYDRANT	3	EACH
70080	CUT-IN OR CONNECT TO EXISTING WATER SYSTEM	10	EACH
70101	FURNISH AND INSTALL STYROFOAM	34	EACH
70111	FURNISH & INSTALL ANODE	9	EACH
71025	6-IN SOLID SLEEVE	1	EACH
71026	8-IN SOLID SLEEVE	3	EACH
71125	12-IN 45° BEND	4	EACH
71134	6-IN 22-1/2° BEND	2	EACH
71137	12-IN 22-1/2° BEND	1	EACH
71149	12-IN 11-1/4° BEND	1	EACH
dad	12X10-IN REDUCER	1	EACH
71208	6X6-IN TEE	1	EACH
71210	8X6-IN TEE	1	EACH
71218	12X8-IN TEE	1	EACH
71220	12X12-IN TEE	1	EACH

* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

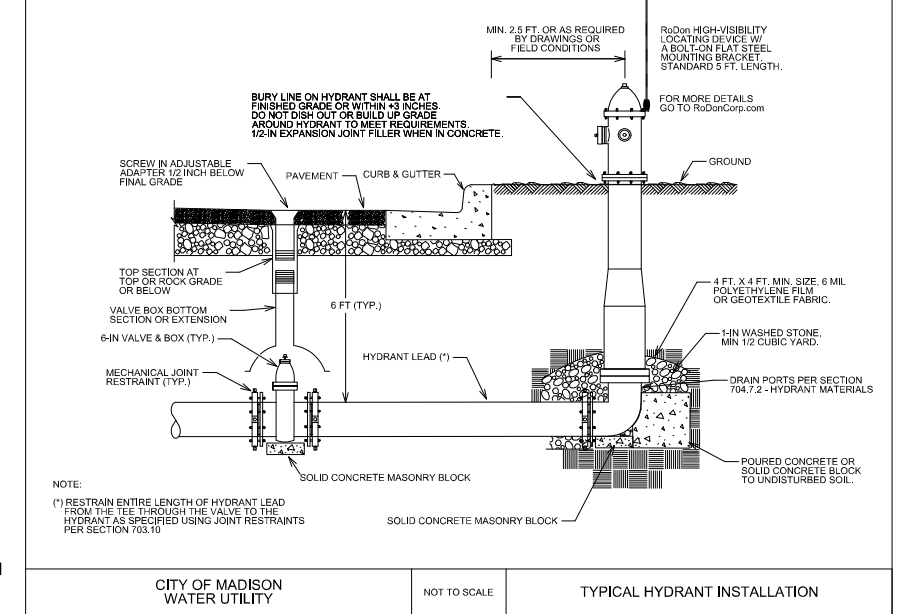
CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.



DISCLAIMER NOTE: UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS **DETAIL DRAWING NO. 7.04**
REVISED: 11/2022

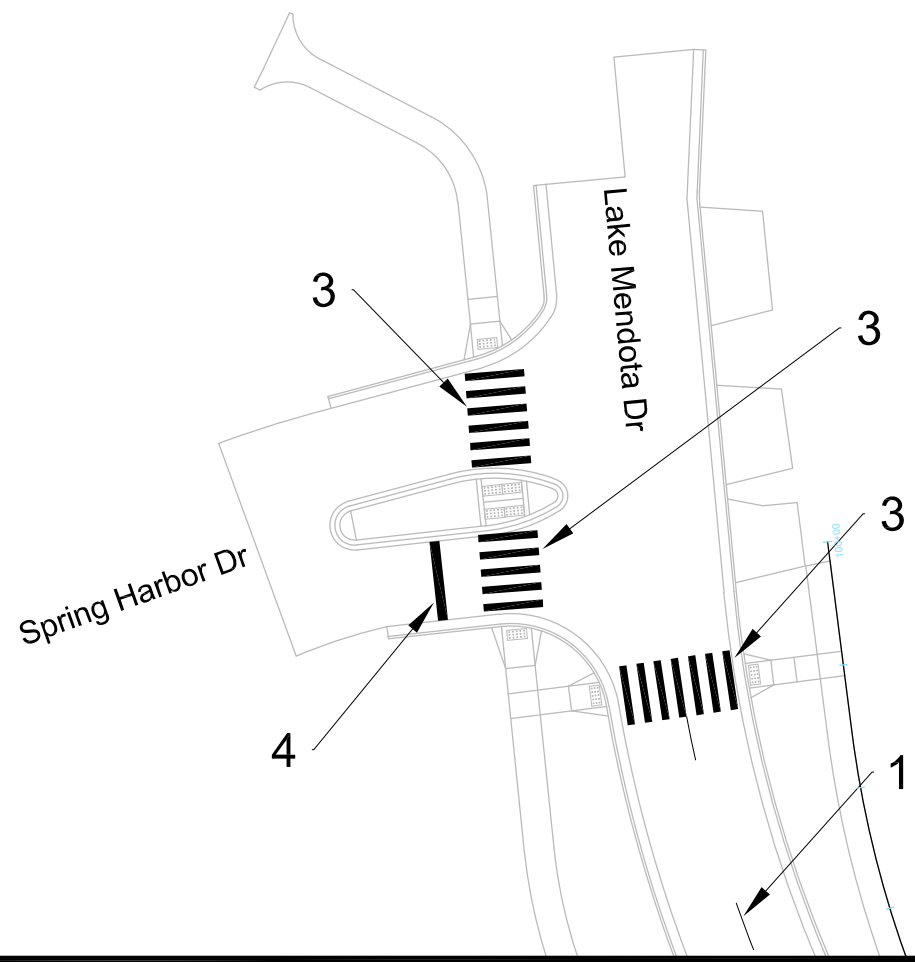


CITY OF MADISON WATER UTILITY NOT TO SCALE TYPICAL HYDRANT INSTALLATION

SCALE: N/A
 DESIGNED BY: TOP
 MADISON WATER UTILITY
 119 E. OLIN AVE. MADISON, WI 53713
 PRINTING DATE: 2/3/23
 CONTRACT NO: 8715
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
 WATER ESTIMATE OF MATERIALS
 CITY OF MADISON, WISCONSIN
 14082
 W-10


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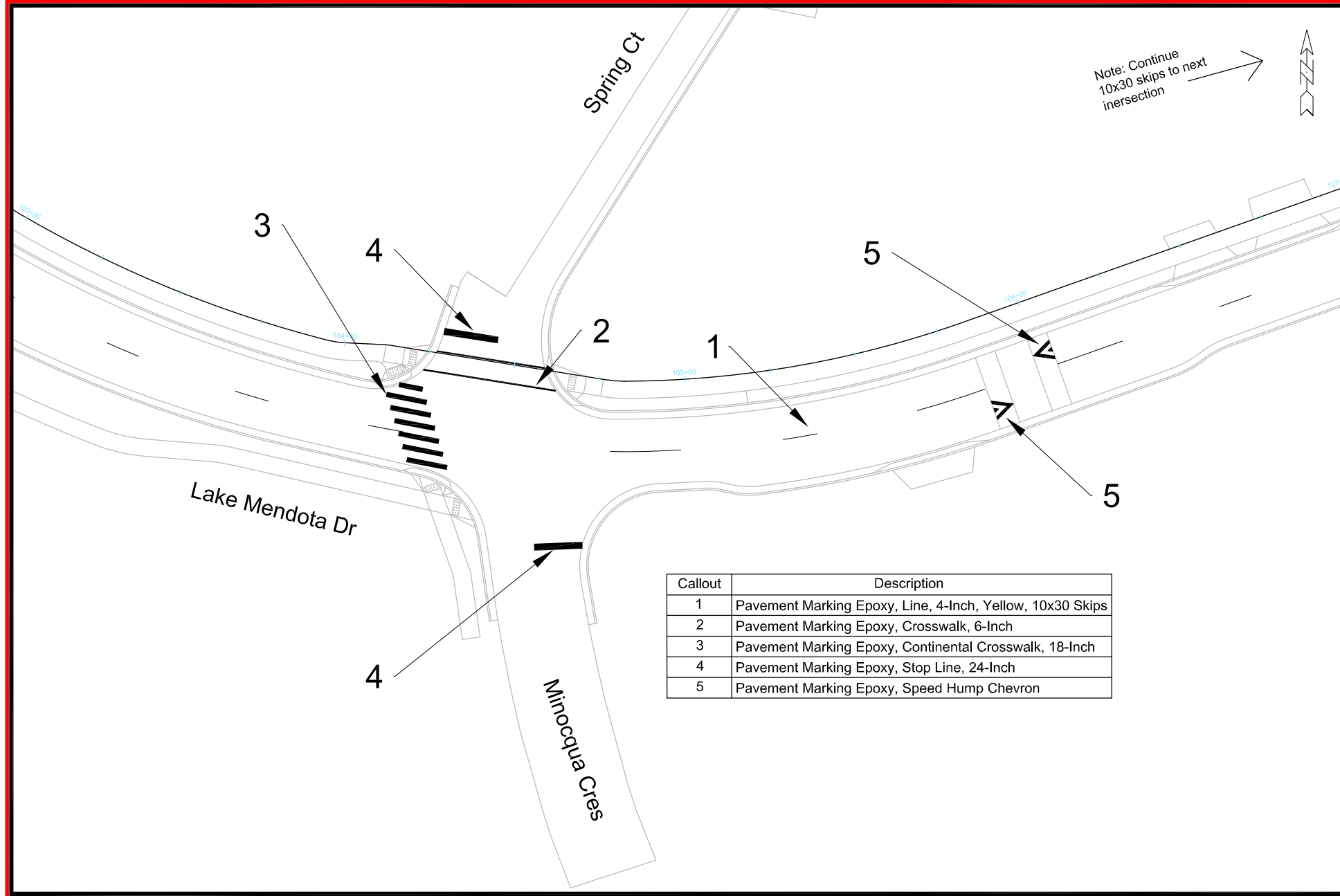
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1	Pavement Marking Epoxy, Line, 4-Inch, Yellow, 10x30 Skips
2	Pavement Marking Epoxy, Crosswalk, 6-Inch
3	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
4	Pavement Marking Epoxy, Stop Line, 24-Inch
5	Pavement Marking Epoxy, Speed Hump Chevron



Note: Continue
10x30 skips to next
intersection



	PAVEMENT MARKING	14082	PM-1
	LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023	MADISON, WI	
<small>M:\DESIGN\Projects\14082\CAD\Traffic\14082TE-Pavement Markings.dwg</small>		CONTRACT NO:	8715
14082			
PM-1			

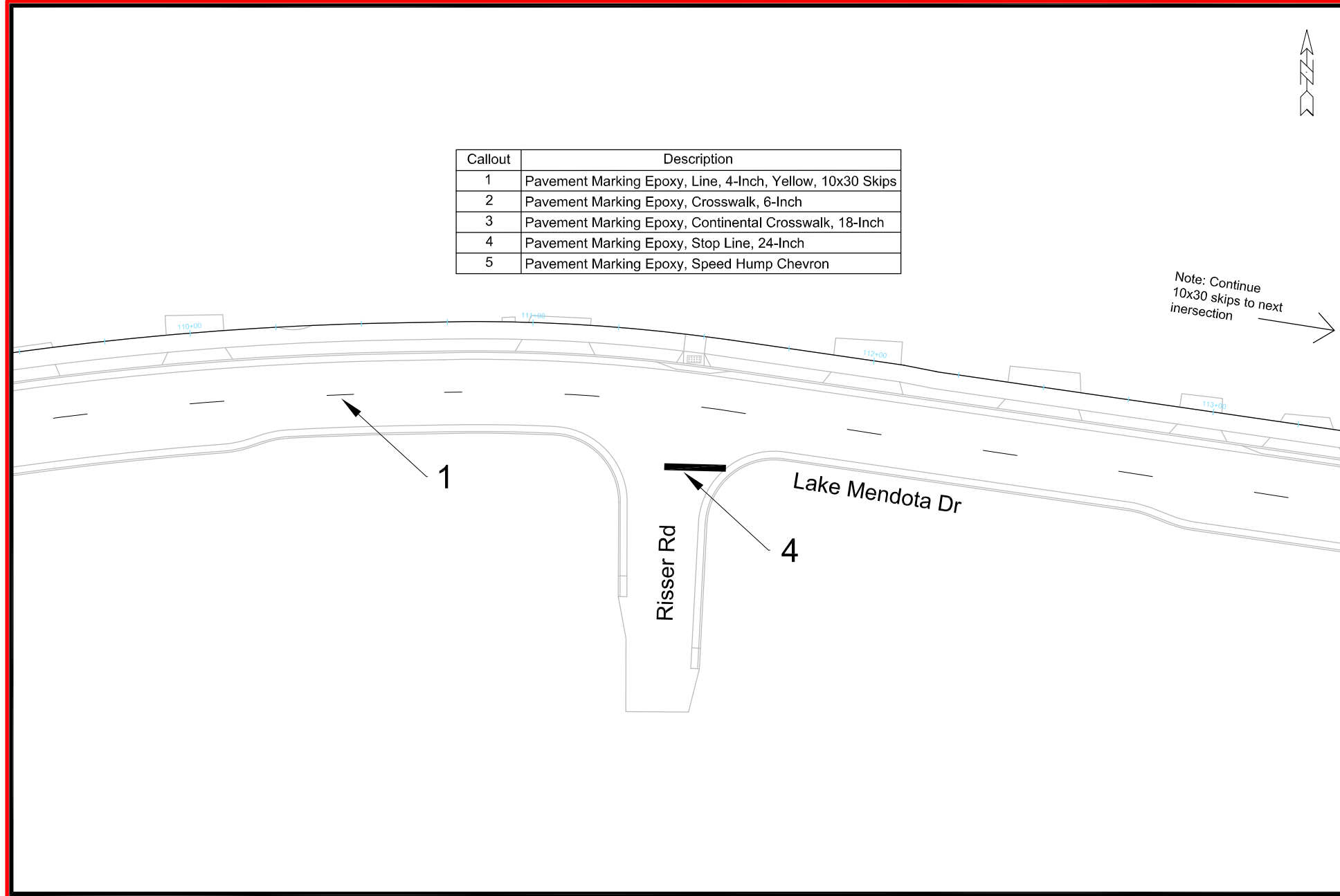


Callout	Description
1	Pavement Marking Epoxy, Line, 4-Inch, Yellow, 10x30 Skips
2	Pavement Marking Epoxy, Crosswalk, 6-Inch
3	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
4	Pavement Marking Epoxy, Stop Line, 24-Inch
5	Pavement Marking Epoxy, Speed Hump Chevron



PAVEMENT MARKING		14082	PM-2
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023		MADISON, WI	
M:\DESIGN\Projects\14082\CAD\Traffic\14082TE-Pavement Markings.dwg		8715	
		CONTRACT NO:	
		14082	



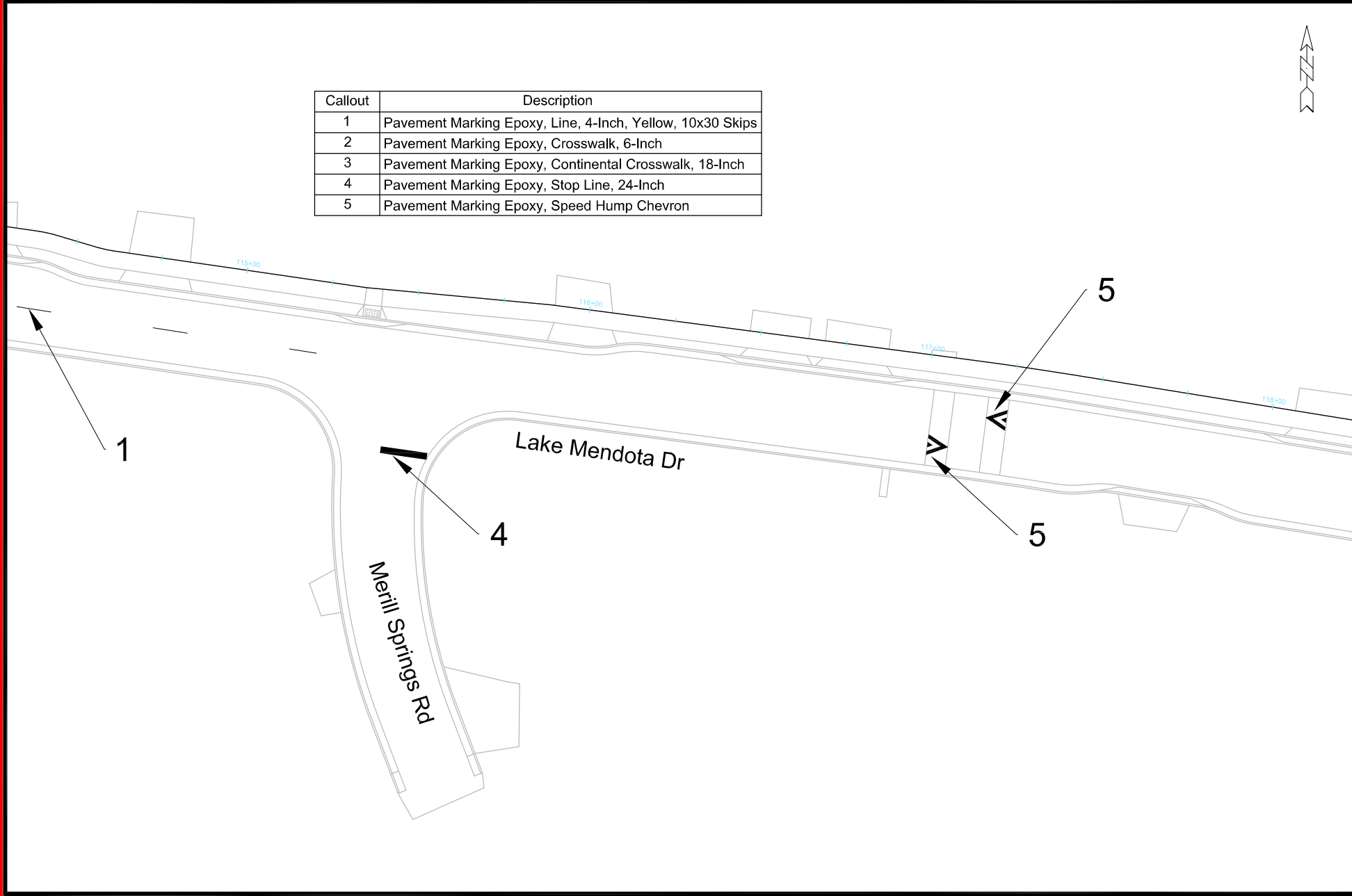
14082
PM-2





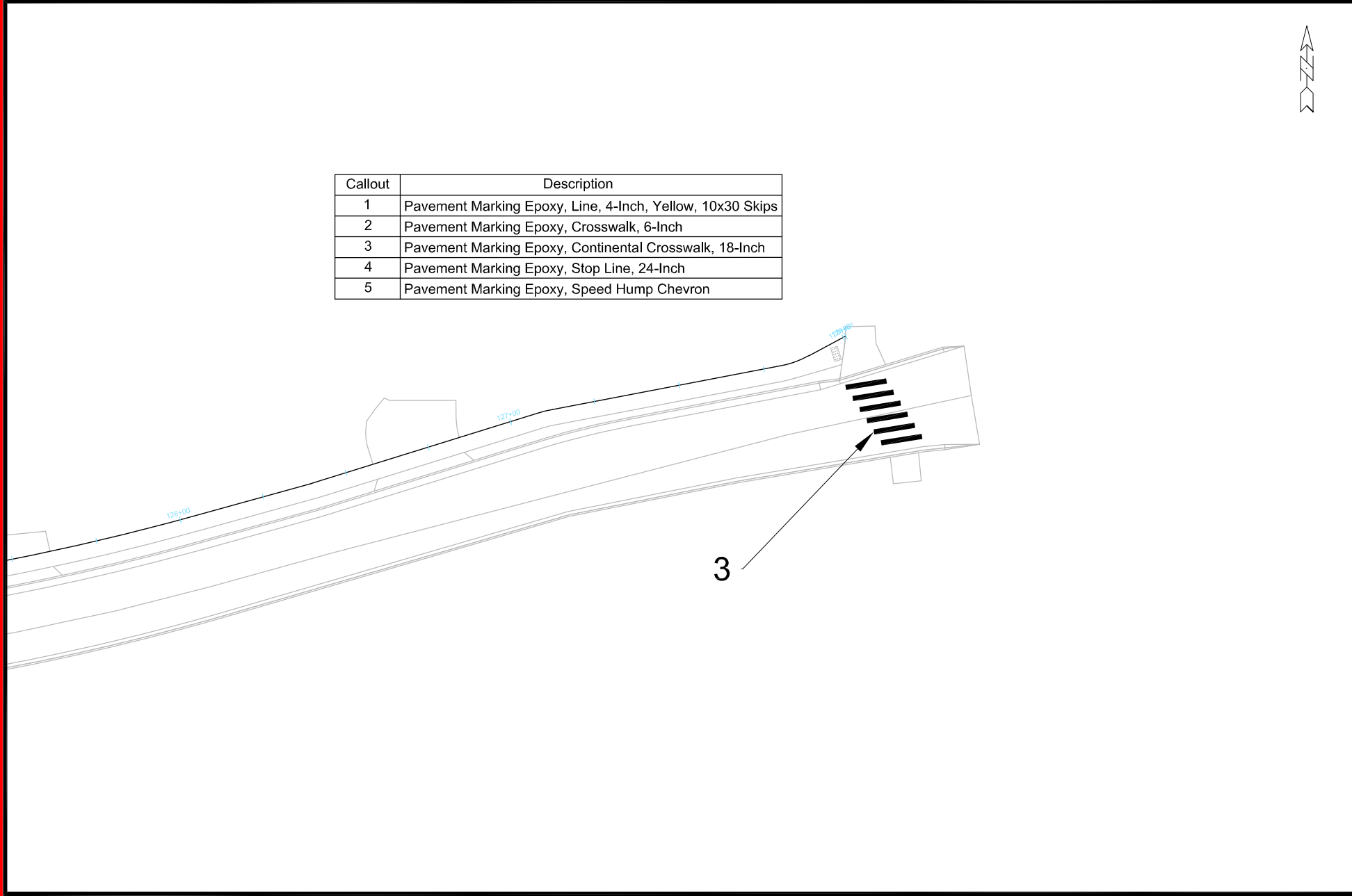
Callout	Description
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2	Pavement Marking Epoxy, Crosswalk, 6-Inch
3	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
4	Pavement Marking Epoxy, Stop Line, 24-Inch
5	Pavement Marking Epoxy, Speed Hump Chevron

	14082	14082
	14082	14082
	MADISON, WI	PM-3
PAVEMENT MARKING LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023 <small>M:\DESIGN\Projects\14082\CAD\Traffic\14082TE-Pavement Markings.dwg</small>	8715	
	CONTRACT NO:	


Callout	Description
1	Pavement Marking Epoxy, Line, 4-Inch, Yellow, 10x30 Skips
2	Pavement Marking Epoxy, Crosswalk, 6-Inch
3	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
4	Pavement Marking Epoxy, Stop Line, 24-Inch
5	Pavement Marking Epoxy, Speed Hump Chevron

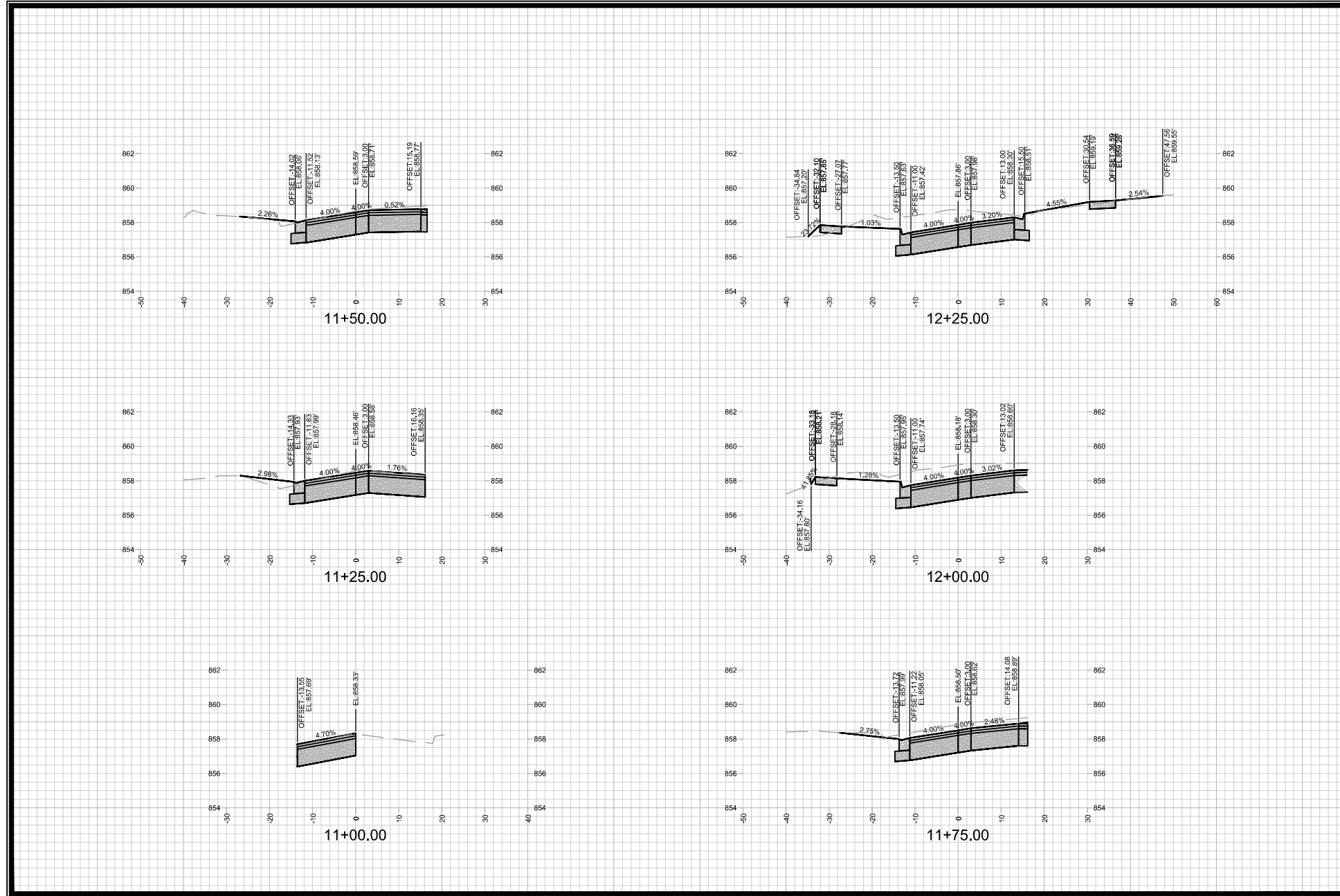



	14082	14082
	14082	8715
PAVEMENT MARKING LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023 <small>M:\DESIGN\Projects\14082\CAD\Traffic\14082TE-Pavement Markings.dwg</small>	MADISON, WI	CONTRACT NO:
	14082	PM-4

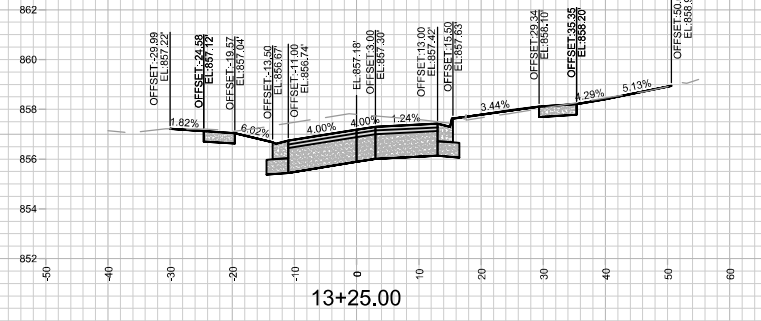
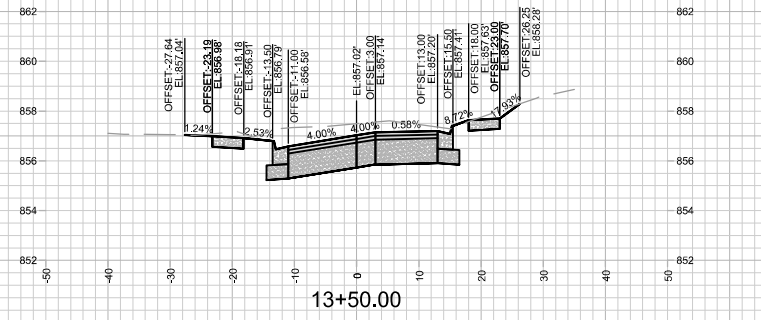
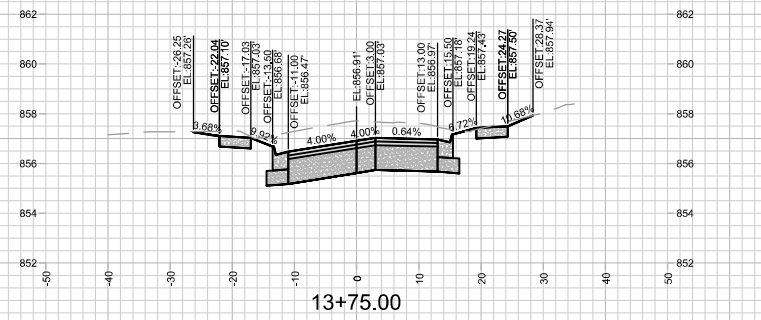
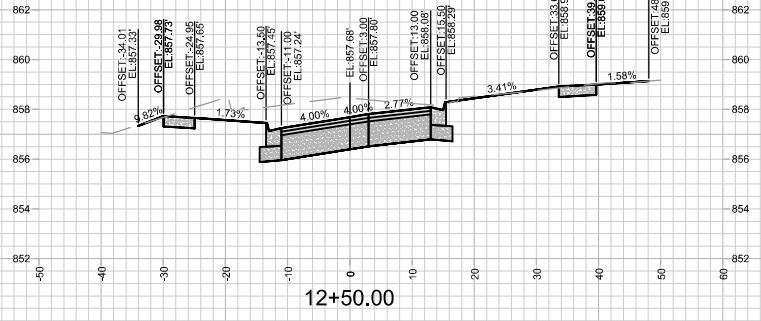
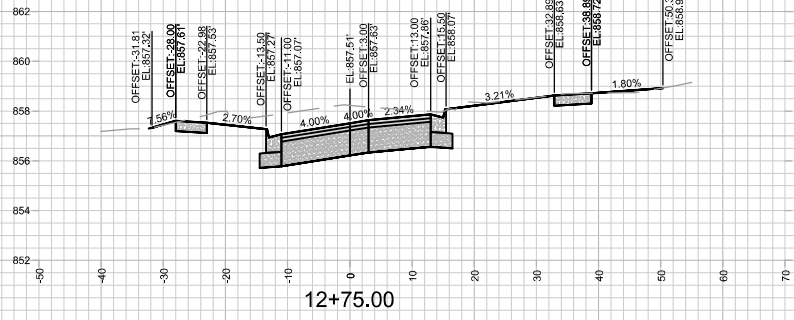
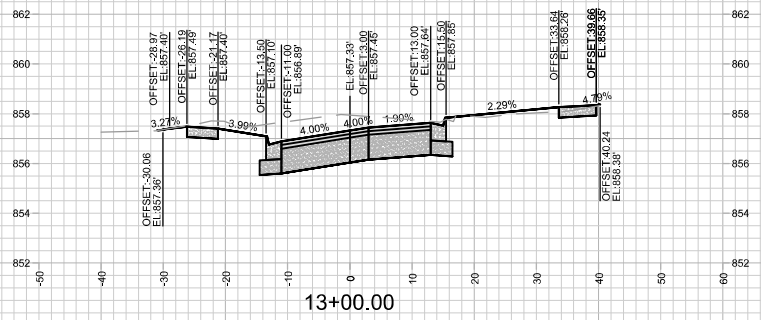



Callout	Description
1	Pavement Marking Epoxy, Line, 4-Inch, Yellow, 10x30 Skips
2	Pavement Marking Epoxy, Crosswalk, 6-Inch
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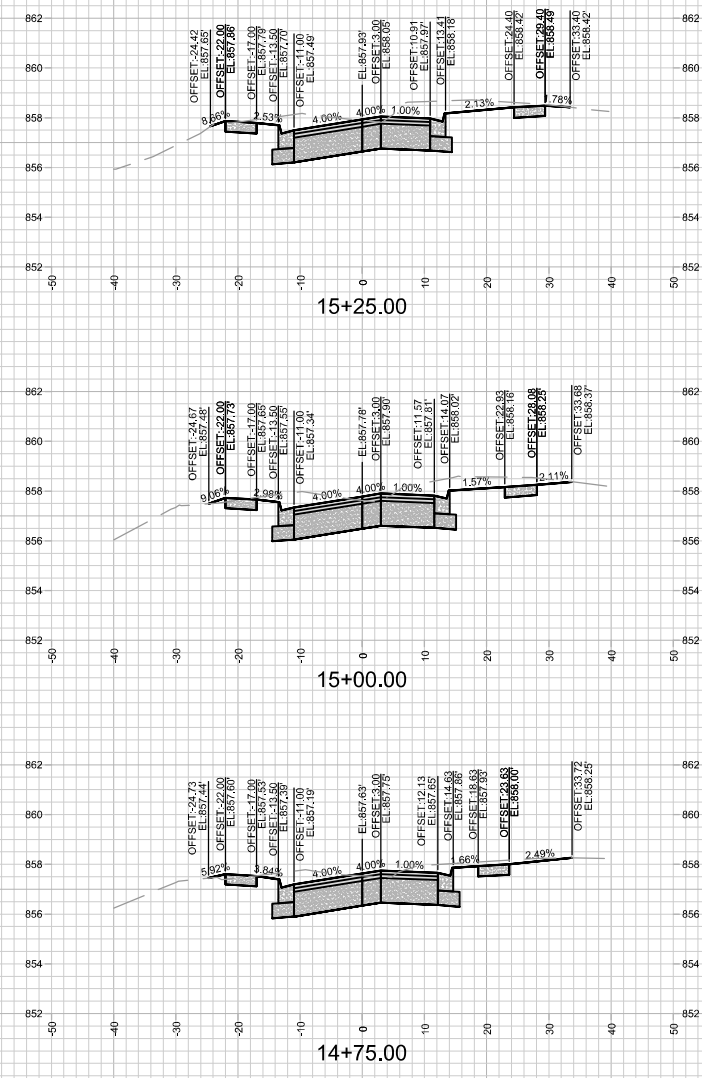
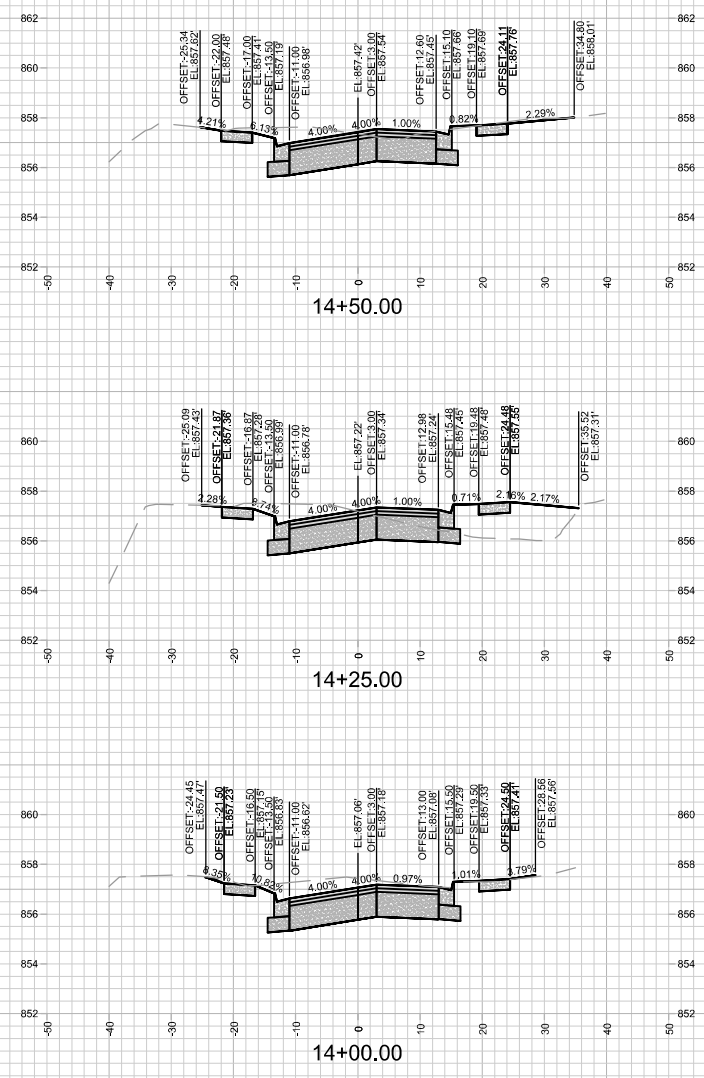
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	LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023	MADISON, WI	
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		14082 X-1	
LAKE MENDOTA DRIVE - CROSS SECTIONS LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023 <small>M:\DESIGN\Projects\14082\CAD\Streets\14082EM\Sections.dwg</small>		14082 8715 CONTRACT NO.:	
MADISON, WI		14082 8715 2/2/2023 5:25:10 DATE BY MARK REVISION	



LAKE MENDOTA DRIVE - CROSS SECTIONS	
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023	
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8715	CONTRACT NO.
MADISON, WI	14082
DATE	BY
REVISION	DATE
MARK	DATE
DATE	BY
DATE	BY



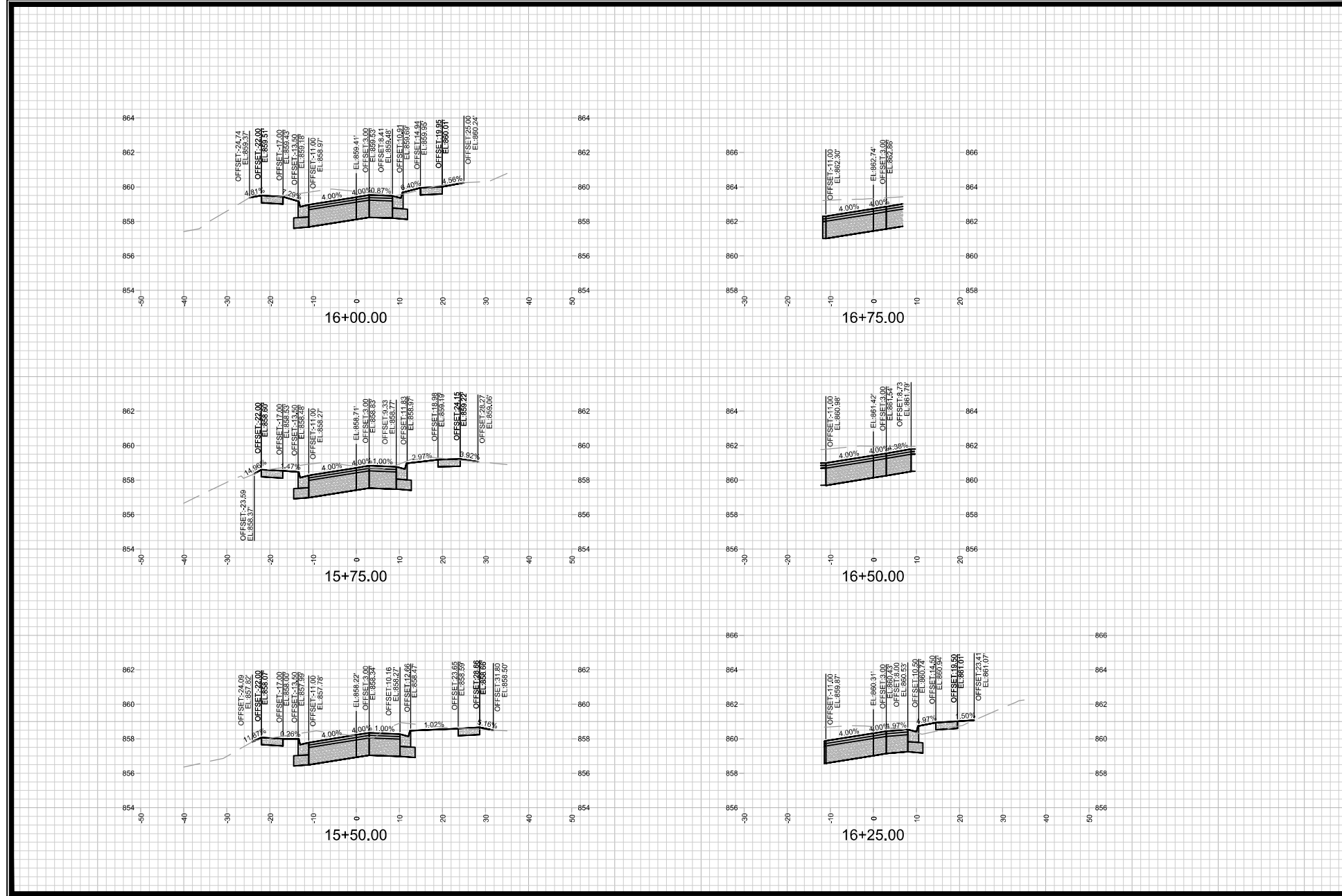
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LAKE MENDOTA DRIVE - CROSS SECTIONS
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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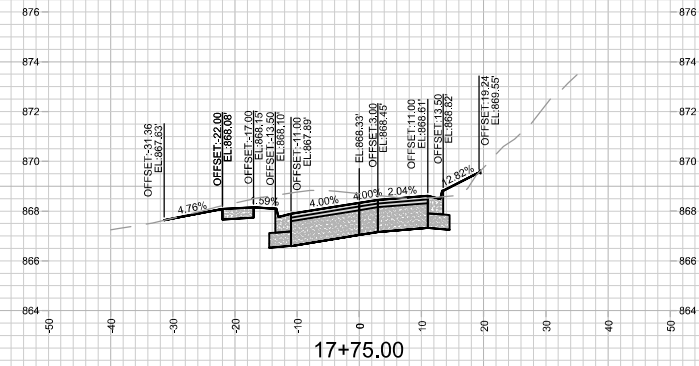
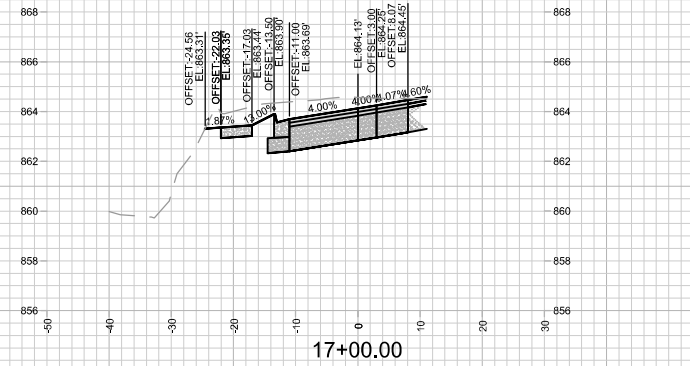
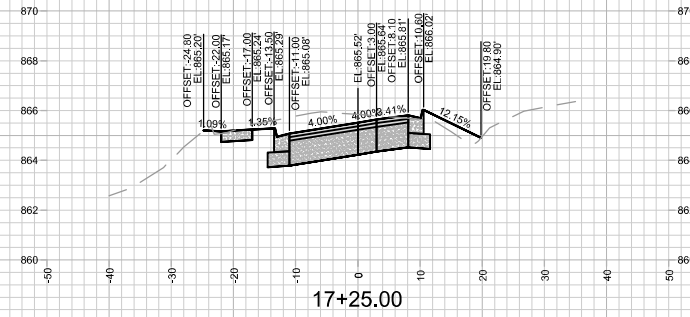
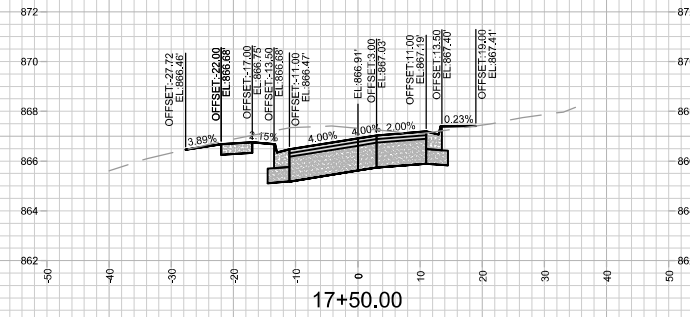
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CONTRACT NO: 14082



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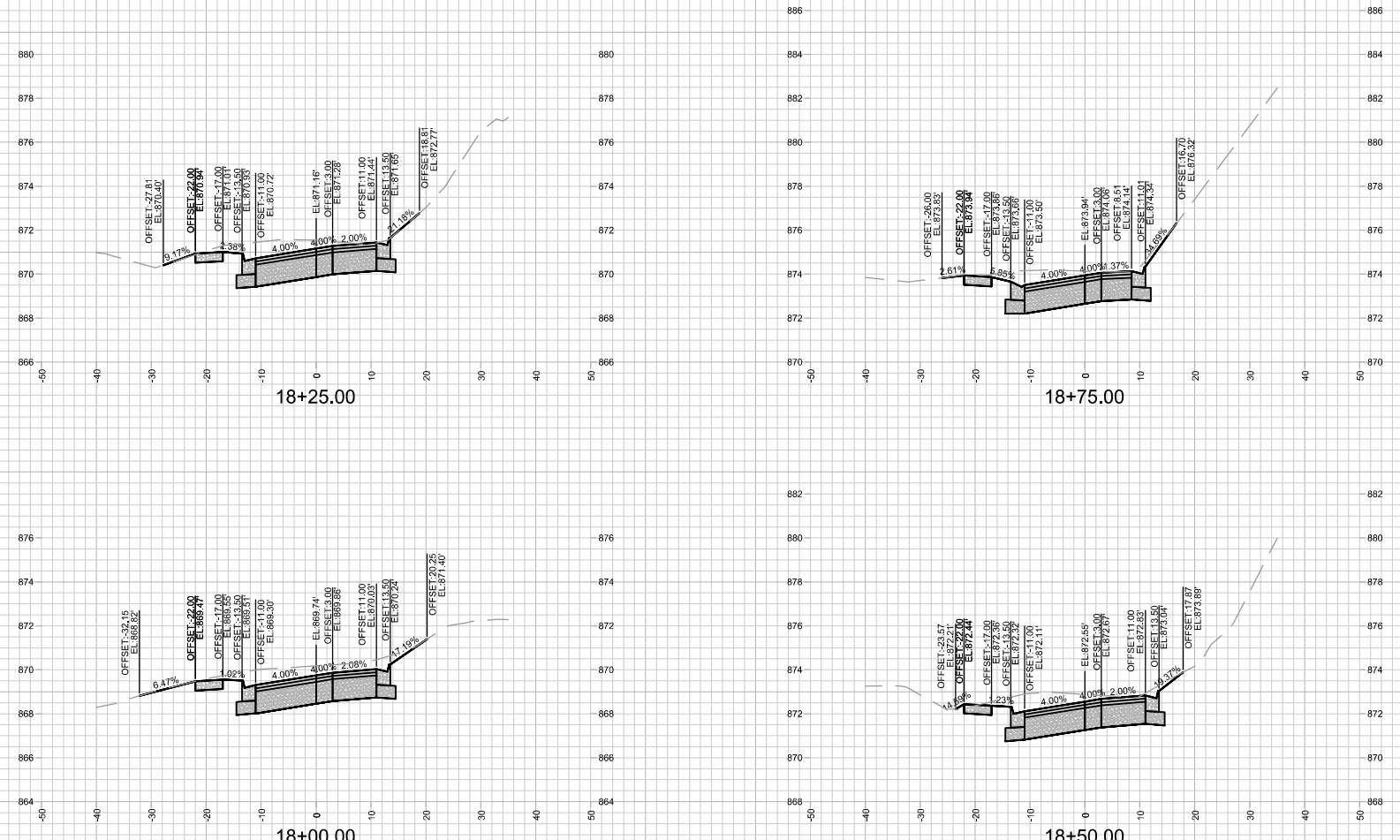
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LAKE MENDOTA DRIVE - CROSS SECTIONS
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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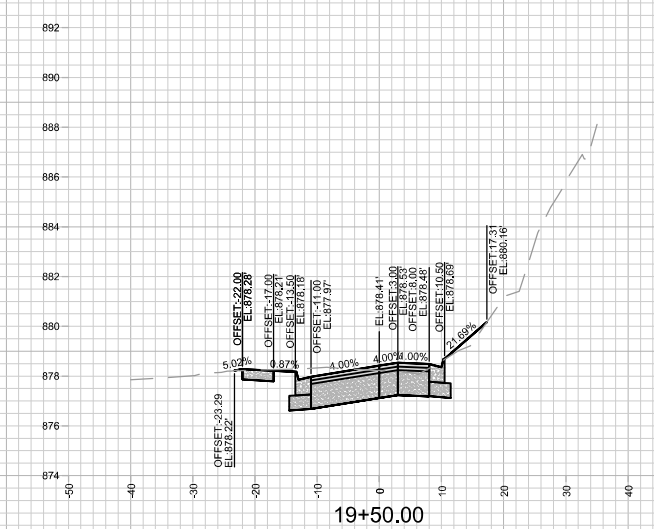
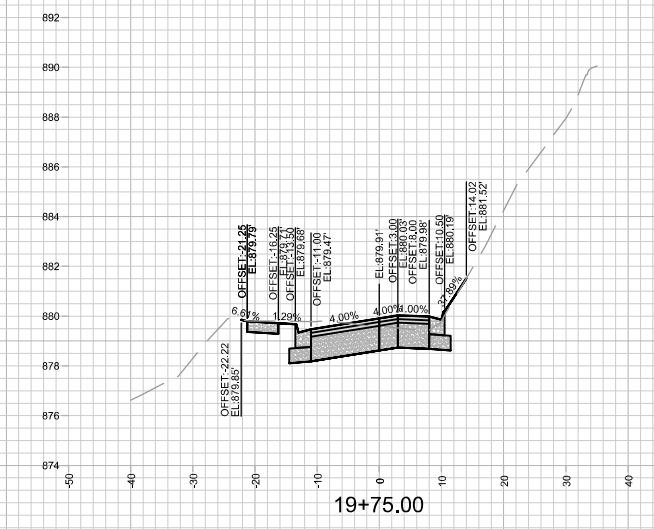
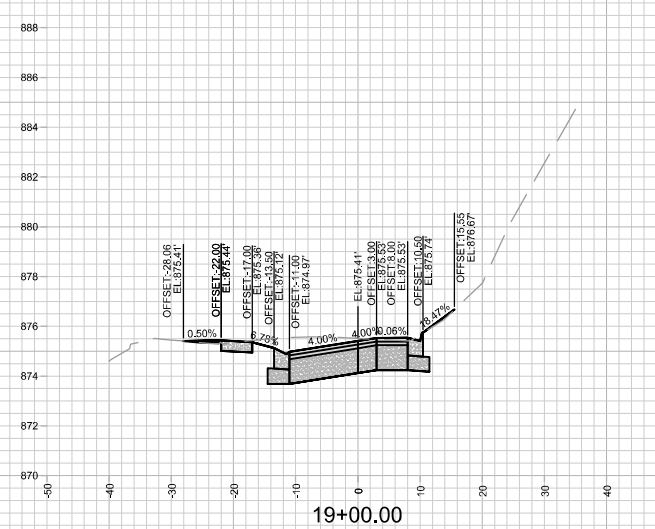
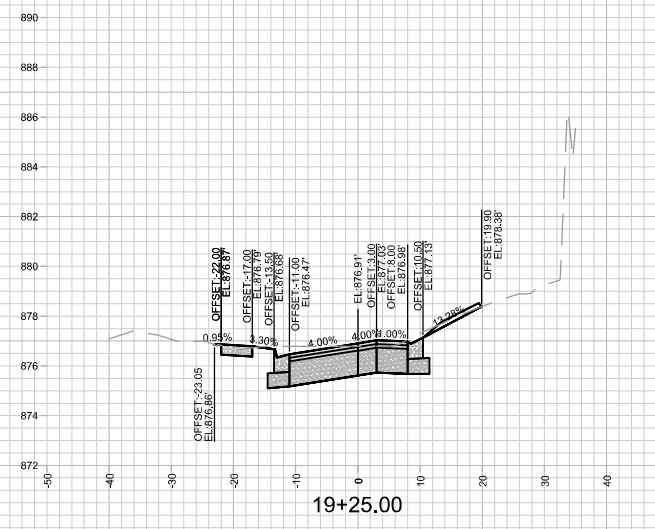
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LAKE MENDOTA DRIVE - CROSS SECTIONS
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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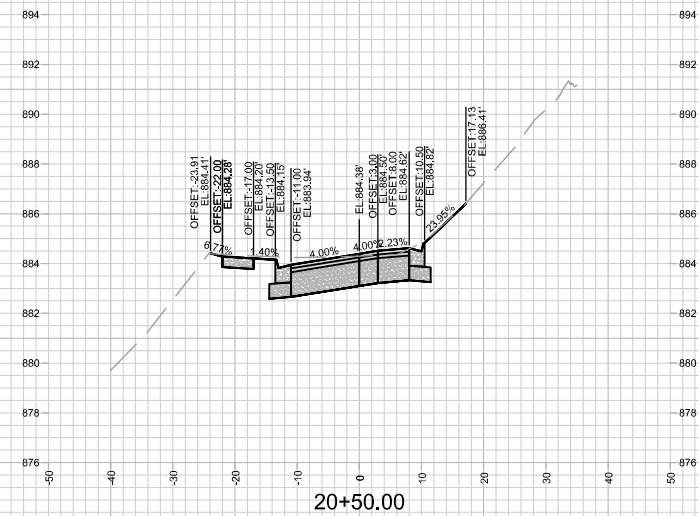
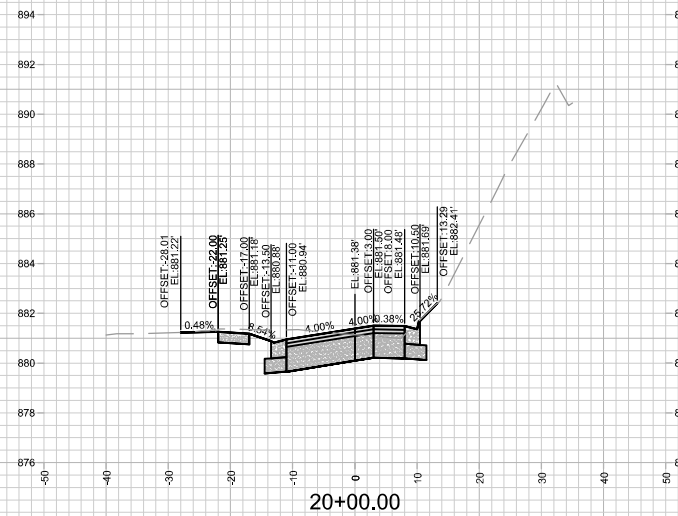
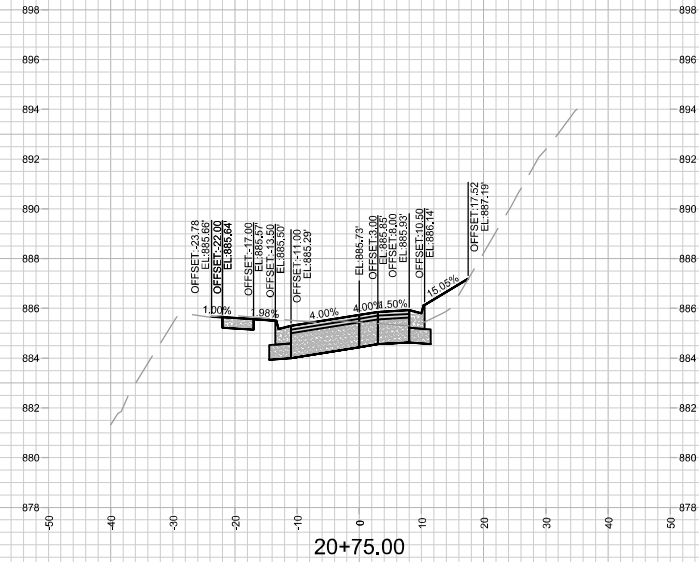
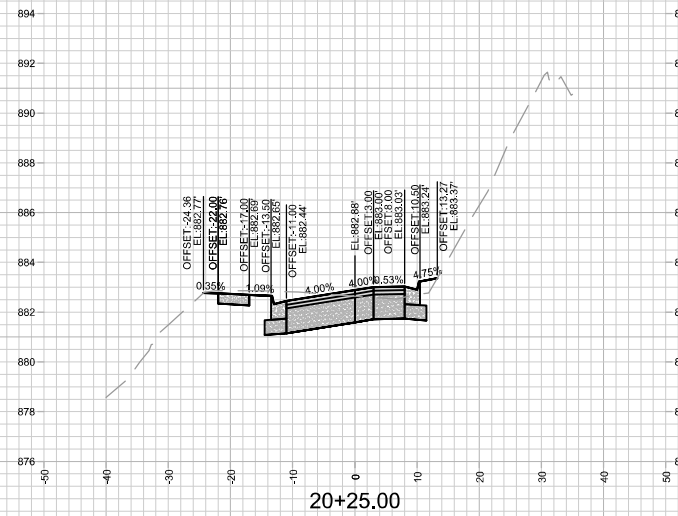
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MADISON, WI
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LAKE MENDOTA DRIVE - CROSS SECTIONS		14082									
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023		MADISON, WI									
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LAKE MENDOTA DRIVE - CROSS SECTIONS
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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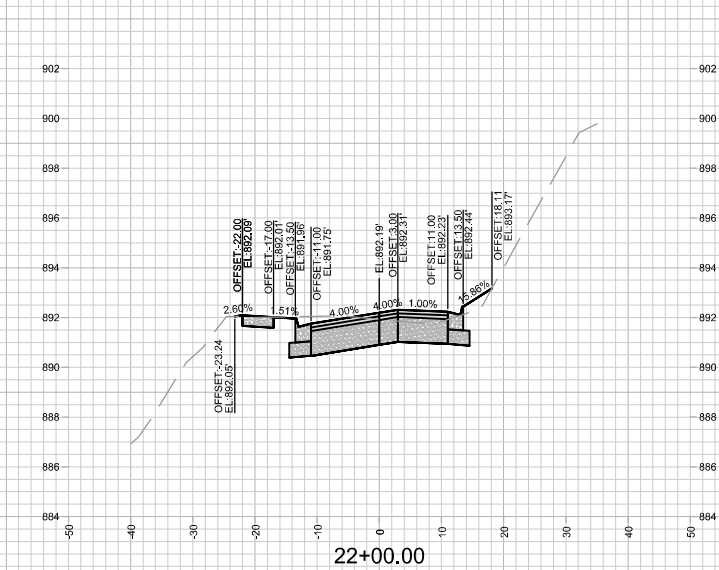
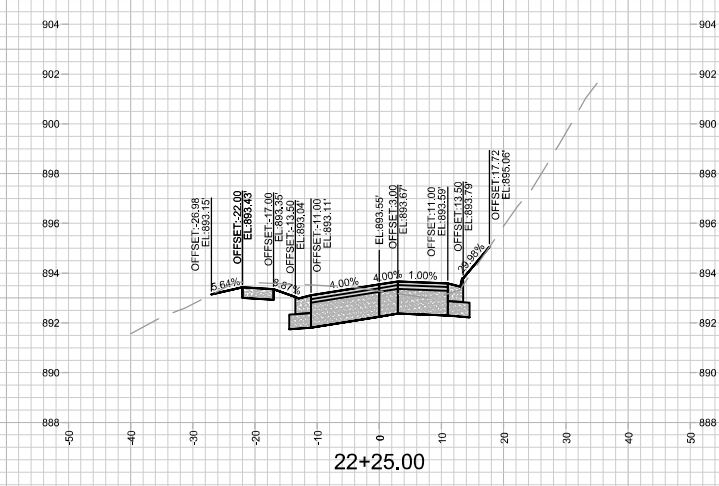
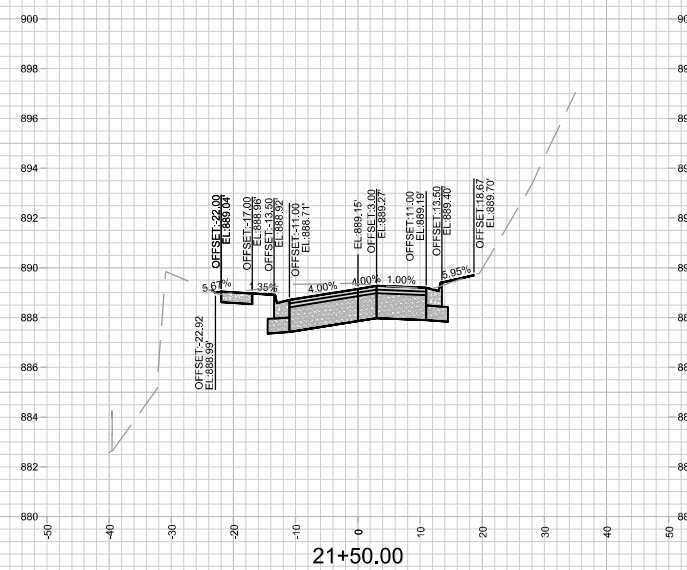
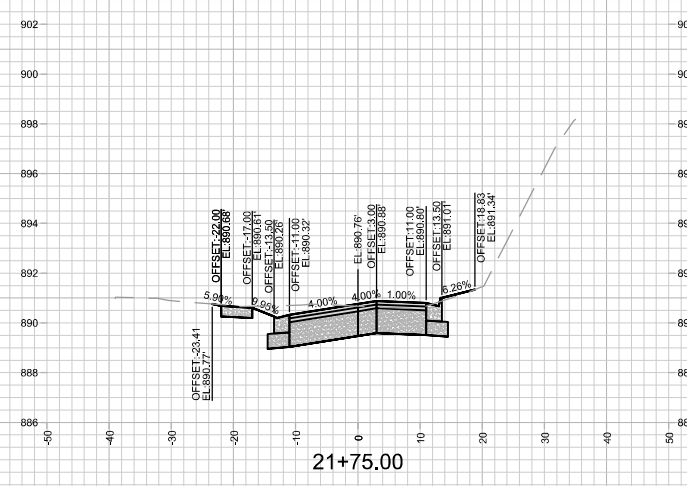
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REVISION		DATE		BY	

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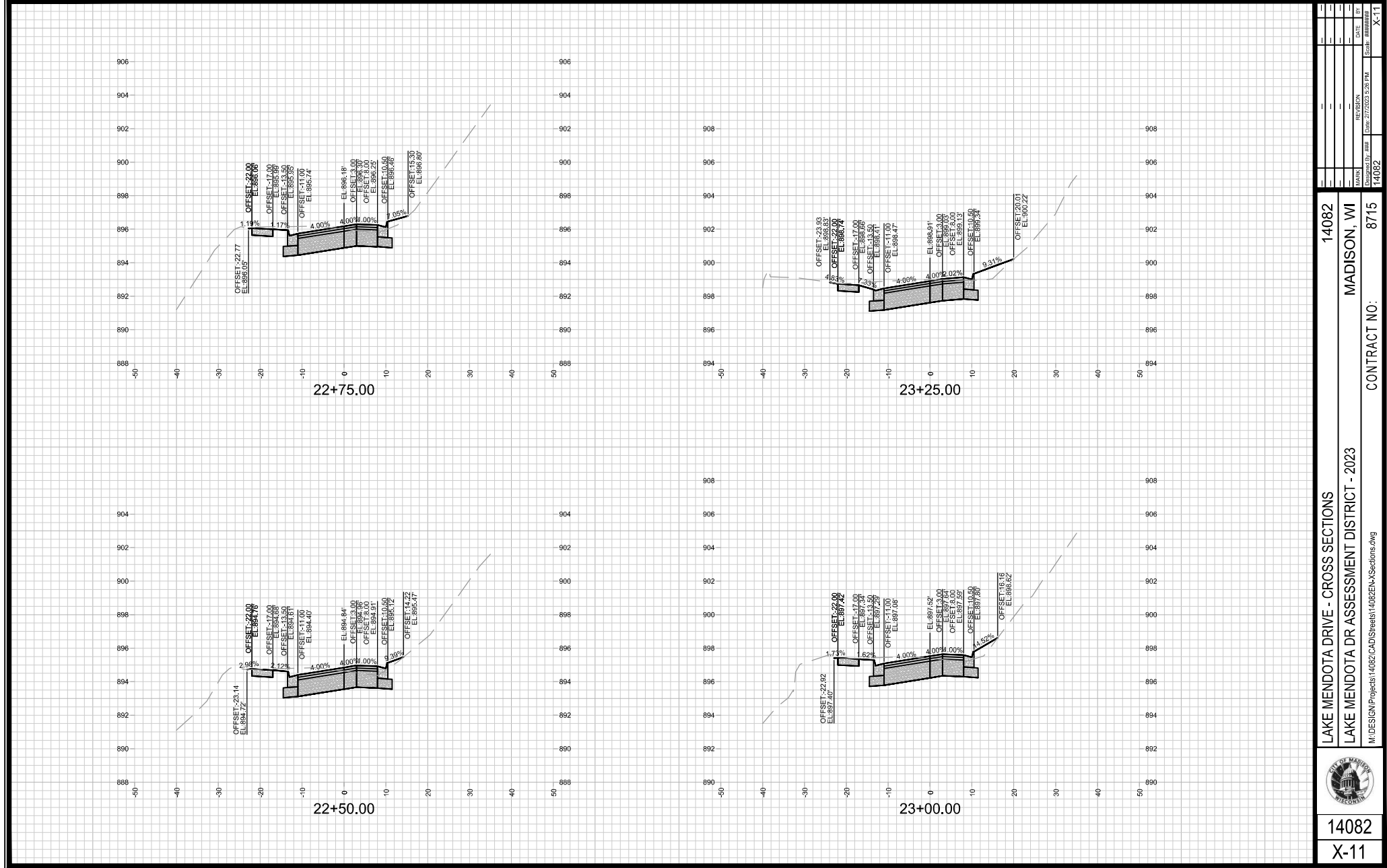


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LAKE MENDOTA DRIVE - CROSS SECTIONS
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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MADISON, WI
CONTRACT NO: 8715

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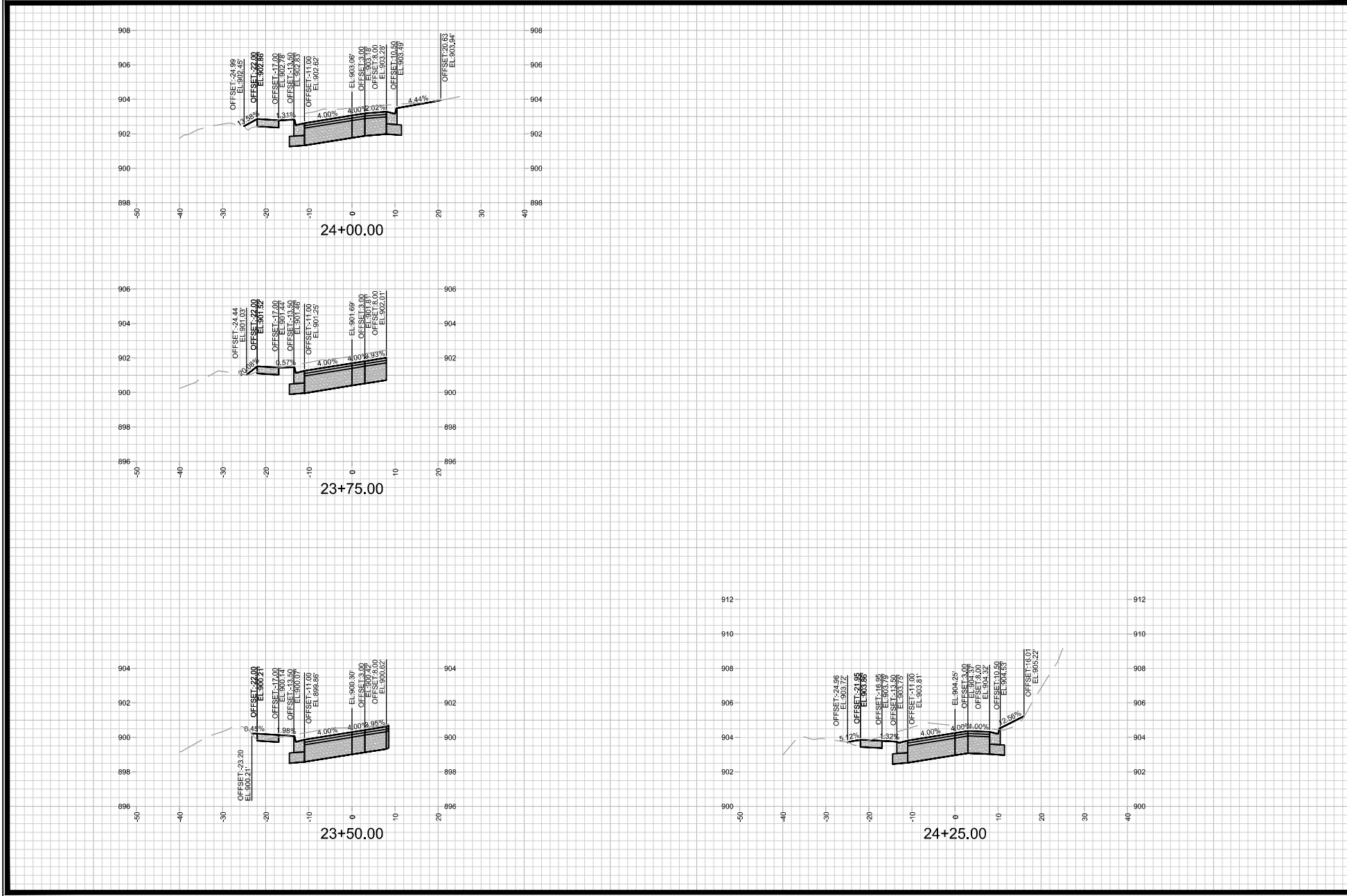


LAKE MENDOTA DRIVE - CROSS SECTIONS
 LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023

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REVISION	NO.	DATE		
CONTRACT NO:		8715		
SHEET NO:		14082	X-11	



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LAKE MENDOTA DRIVE - CROSS SECTIONS
LAKE MENDOTA DR ASSESSMENT DISTRICT - 2023
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CONTRACT NO.: 8715
MADISON, WI

DATE: 2/7/23
BY: [Signature]
JOB: 14082
SHEET: X-12

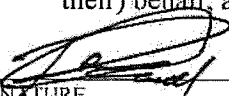
SECTION E: BIDDERS ACKNOWLEDGEMENT

CONTRACT TITLE LAKE MENDOTA DR

CONTRACT NO. 8715

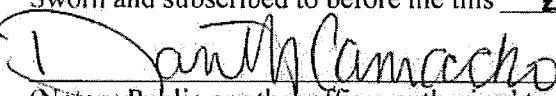
Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

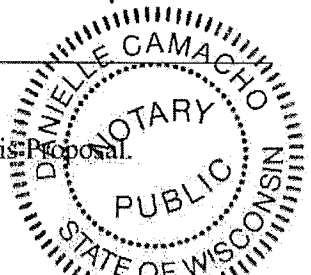
- The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2023 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. 1 through 1 issued thereto, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
- If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
- The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
- I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. (IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).
- I hereby certify that all statements herein are made on behalf of Capitol Underground, Inc. (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of WI a partnership consisting of _____; an individual trading as _____; of the City of Sun Prairie State of WI; that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf; and that the said statements are true and correct.


SIGNATURE

CONTROLLER
TITLE, IF ANY

Sworn and subscribed to before me this 23rd day of February, 20 23.


(Notary Public or other officer authorized to administer oaths)
My Commission Expires 5/22/23
Bidders shall not add any conditions or qualifying statements to this Proposal.



Contract 8715 – Capitol Underground, Inc.

Section F: Best Value Contracting (BVC)

This section is a required document for the bid to be considered complete. There are two methods for completing the Best Value Contracting (BVC) form. Method one: The form can be filled out online and submitted to this site to be included with your electronic bid. Method two: The form can be downloaded from the site and submitted by hand to the City of Madison.

Please check the box in the Upload section if submitting the report by hand.

Method of Submittal for BVC (click in box below to choose) *

I will submit Bid Express fillable online form (BVC).

Section F: Best Value Contracting (BVC) Fillable Online Form
Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.

No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.

Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.

First time contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.

Contractor has been in business less than one year.

Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade.

An exemption is granted in accordance with a time period of a "Documented Depression" as defined by the State of Wisconsin.

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an

apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- BRICKLAYER
- CARPENTER
- CEMENT MASON / CONCRETE FINISHER
- CEMENT MASON (HEAVY HIGHWAY)
- CONSTRUCTION CRAFT LABORER
- DATA COMMUNICATION INSTALLER
- ELECTRICIAN
- ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
- GLAZIER
- HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- INSULATION WORKER (HEAT and FROST)
- IRON WORKER
- IRON WORKER (ASSEMBLER, METAL BLDGS)
- PAINTER and DECORATOR
- PLASTERER
- PLUMBER
- RESIDENTIAL ELECTRICIAN
- ROOFER and WATER PROOFER
- SHEET METAL WORKER
- SPRINKLER FITTER
- STEAMFITTER
- STEAMFITTER (REFRIGERATION)
- STEAMFITTER (SERVICE)
- TAPER and FINISHER
- TELECOMMUNICATIONS (VOICE, DATA and VIDEO) INSTALLER-TECHNICIAN
- TILE SETTER

CONTRACT NO. 8715

Small Business Enterprise Compliance Report

This information may be submitted electronically through Bid Express or submitted with bid in sealed envelope.

Cover Sheet

Prime Bidder Information

Company:	Capitol Underground, Inc.
Address:	782 Lois Dr.
Telephone Number:	608-318-1595
Fax Number:	608-318-1589
Contact Person/Title:	Brent Conwell, Controller

Prime Bidder Certification

Name:	Brent Conwell
Title:	Controller
Company:	Capitol Underground, Inc.

I certify that the information contained in this SBE Compliance Report is true and correct to the best of my knowledge and belief.


Witness Signature


Bidder's Signature

02/23/2023
Date

CONTRACT NO.

Small Business Enterprise Compliance Report

Summary Sheet

SBE Subcontractors Who Are NOT Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
Mike Schlobohm Trucking	Trucking	9 %
Other SBE Trucks as Available	Trucking	%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
Subtotal SBE who are NOT suppliers:		9 %

SBE Subcontractors Who Are Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
Subtotal Contractors who are suppliers:		_____ % x 0.6 = _____ % (discounted to 60%)
Total Percentage of SBE Utilization:		_____ %.

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023

CONTRACT NO. 8715

DATE: 2/23/23

Capitol Underground, Inc.

Item	Quantity	Price	Extension
Section B: Proposal Page			
10701 - TRAFFIC CONTROL - LUMP SUM	1.00	\$4,000.00	\$4,000.00
10721 - TRAFFIC CONTROL SIGN - PORTABLE CHANGEABLE MESSAGE - DAYS	14.00	\$65.00	\$910.00
10770 - MAINTAIN RESIDENTIAL DRIVEWAY ACCESS - EACH	1.00	\$1,050.00	\$1,050.00
10801 - ROOT CUTTING - CURB & GUTTER (UNDISTRIBUTED) - L.F.	50.00	\$5.00	\$250.00
10802 - ROOT CUTTING - SIDEWALK (UNDISTRIBUTED) - L.F.	100.00	\$5.00	\$500.00
10911 - MOBILIZATION - LUMP SUM	1.00	\$838,000.00	\$838,000.00
20101 - EXCAVATION CUT - C.Y.	6930.00	\$27.70	\$191,961.00
20130 - UNDERDRAIN - L.F.	1380.00	\$15.60	\$21,528.00
20140 - GEOTEXTILE FABRIC TYPE SAS (NON-WOVEN) - S.Y.	4590.00	\$2.85	\$13,081.50
20204 - SELECT FILL - TON	20.00	\$23.30	\$466.00
20219 - BREAKER RUN - TON	3220.00	\$9.50	\$30,590.00
20221 - TOPSOIL - S.Y.	4320.00	\$10.40	\$44,928.00
20223 - PLANTING MIX TOPSOIL - C.Y.	30.00	\$115.00	\$3,450.00
20303 - SAWCUT ASPHALT PAVEMENT - L.F.	1240.00	\$3.00	\$3,720.00
20322 - REMOVE CONCRETE CURB & GUTTER - L.F.	860.00	\$5.35	\$4,601.00
20323 - REMOVE CONCRETE SIDEWALK & DRIVE - S.F.	5210.00	\$3.10	\$16,151.00
20324 - REMOVE CONCRETE STEPS - S.F.	20.00	\$26.00	\$520.00
20326 - REMOVE FENCE - L.F.	150.00	\$4.25	\$637.50
20401 - CLEARING - I.D.	186.00	\$21.50	\$3,999.00
20402 - GRUBBING - I.D.	186.00	\$21.50	\$3,999.00
20701 - TERRACE SEEDING - S.Y.	4080.00	\$2.05	\$8,364.00
21063 - EROSION MATTING, CLASS I, TYPE A - ORGANIC - S.Y.	4080.00	\$2.00	\$8,160.00
21301 - REMOVE AND REPLACE MAILBOX - EACH	48.00	\$265.00	\$12,720.00
21302 - CONSTRUCTION FENCE (PLASTIC) (UNDISTRIBUTED) - L.F.	100.00	\$7.75	\$775.00
30201 - TYPE 'A' CONCRETE CURB & GUTTER - L.F.	5045.00	\$22.50	\$113,512.50
30203 - TYPE 'X' CONCRETE CURB & GUTTER - L.F.	470.00	\$28.50	\$13,395.00
30205 - TYPE 'E' CONCRETE CURB & GUTTER - L.F.	110.00	\$40.60	\$4,466.00
30208 - HAND FORMED CONCRETE CURB & GUTTER - L.F.	30.00	\$41.00	\$1,230.00
30301 - 5" CONCRETE SIDEWALK - S.F.	17100.00	\$7.80	\$133,380.00
30302 - 7" CONCRETE SIDEWALK AND DRIVE - S.F.	7005.00	\$8.65	\$60,593.25
30311 - CONCRETE MOUNTABLE MEDIAN ISLAND NOSE - S.F.	45.00	\$14.00	\$630.00
30340 - CURB RAMP DETECTABLE WARNING FIELD - S.F.	160.00	\$40.00	\$6,400.00
30451 - BOULDER RETAINING WALL - S.F.	170.00	\$48.50	\$8,245.00
40101 - CRUSHED AGGREGATE BASE COURSE GRADATION NO. 1 - TON	3100.00	\$21.15	\$65,565.00
40102 - CRUSHED AGGREGATE BASE COURSE GRADATION NO. 2 OR NO. 3 - TON	4300.00	\$21.15	\$90,945.00
40202 - HMA PAVEMENT 4 LT 58-28 S - TON	1740.00	\$76.20	\$132,588.00
40218 - TACK COAT - GAL.	590.00	\$2.00	\$1,180.00
40221 - MACHINE LAID ASPHALT CURB - L.F.	880.00	\$1.55	\$1,364.00
40231 - ASPHALT DRIVE & TERRACE - S.Y.	270.00	\$41.00	\$11,070.00
40311 - PULVERIZE AND SHAPE - S.Y.	740.00	\$5.00	\$3,700.00
40410 - CONCRETE SPEED HUMP - S.Y.	110.00	\$130.00	\$14,300.00
60800 - PAVEMENT MARKING EPOXY, LINE, 4-INCH - L.F.	390.00	\$6.00	\$2,340.00
60812 - PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH - L.F.	80.00	\$9.00	\$720.00
60816 - PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK, 18- INCH - L.F.	312.00	\$15.00	\$4,680.00
60818 - PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH - L.F.	78.00	\$18.00	\$1,404.00

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023

CONTRACT NO. 8715

DATE: 2/23/23

Capitol Underground, Inc.

Item	Quantity	Price	Extension
70104 - ADJUST VALVE BOX - EACH	32.00	\$195.00	\$6,240.00
90001 - INCENTIVE FOR USE OF CONCRETE WITH CARBONIZED TREATMENT - LUMP SUM	1.00	\$15,000.00	\$15,000.00
90002 - BARK MULCH - S.Y.	540.00	\$1.75	\$945.00
90003 - REMOVE, SALVAGE, AND REINSTALL RETAINING WALL (UNDISTRIBUTED) - S.F.	50.00	\$60.00	\$3,000.00
90004 - TEMPORARY MAILBOX - EACH	48.00	\$160.00	\$7,680.00
90005 - REMOVE AND SALVAGE BRICK PAVERS - S.F.	45.00	\$28.45	\$1,280.25
90006 - GEOSYNTHETIC REINFORCEMENT FABRIC (UNDISTRIBUTED) - S.Y.	1500.00	\$5.65	\$8,475.00
90007 - ADJUST WATER SERVICE BOX - EACH	57.00	\$195.00	\$11,115.00
90008 - 7" COLORED CONCRETE - S.F.	205.00	\$19.20	\$3,936.00
90009 - PAVEMENT MARKING EPOXY, SPEED HUMP ARROW - EACH	4.00	\$300.00	\$1,200.00
20217 - CLEAR STONE - TON	532.00	\$16.50	\$8,778.00
21002 - EROSION CONTROL INSPECTION - EACH	4.00	\$240.00	\$960.00
21011 - CONSTRUCTION ENTRANCE - EACH	3.00	\$520.00	\$1,560.00
21012 - STREET CONSTRUCTION STONE BERM - EACH	4.00	\$520.00	\$2,080.00
21013 - STREET SWEEPING - LUMP SUM	1.00	\$10,000.00	\$10,000.00
21014 - CLEAR STONE BERM (DITCH CHECK) - EACH	25.00	\$385.00	\$9,625.00
21018 - SILT SOCK (8 INCH) - PROVIDE, INSTALL, & MAINTAIN - L.F.	800.00	\$6.90	\$5,520.00
21019 - SILT SOCK (8 INCH) - REMOVE & RESTORE - L.F.	800.00	\$2.00	\$1,600.00
21031 - INLET PROTECTION TYPE C (UNDISTRIBUTED) - EACH	4.00	\$250.00	\$1,000.00
21049 - INLET PROTECTION, RIGID FRAME - PROVIDE AND INSTALL - EACH	59.00	\$360.00	\$21,240.00
21050 - INLET PROTECTION, RIGID FRAME - MAINTAIN - EACH	59.00	\$40.00	\$2,360.00
21051 - INLET PROTECTION, RIGID FRAME - REMOVE - EACH	59.00	\$50.00	\$2,950.00
50401 - 12 INCH TYPE I RCP STORM SEWER PIPE - L.F.	847.00	\$70.00	\$59,290.00
50741 - TYPE H INLET - EACH	45.00	\$3,350.00	\$150,750.00
50761 - SADDLED INLET TYPE I - EACH	1.00	\$4,700.00	\$4,700.00
20311 - REMOVE SEWER ACCESS STRUCTURE - EACH	13.00	\$950.00	\$12,350.00
20312 - REMOVE CATCHBASIN - EACH	3.00	\$950.00	\$2,850.00
20313 - REMOVE INLET - EACH	16.00	\$610.00	\$9,760.00
20314 - REMOVE PIPE - L.F.	1007.00	\$37.70	\$37,963.90
20336 - PIPE PLUG (STORM) - EACH	8.00	\$406.00	\$3,248.00
20501 - ADJUST SEWER ACCESS STRUCTURE - EACH	7.00	\$430.00	\$3,010.00
20503 - ADJUST INLET - EACH	1.00	\$430.00	\$430.00
50202 - TYPE II DEWATERING - L.S.	1.00	\$0.01	\$0.01
50211 - SELECT BACKFILL FOR STORM SEWER - T.F.	3621.00	\$0.01	\$36.21
50390 - SEWER ELECTRONIC MARKERS (STORM)(UNDISTRIBUTED) - EACH	35.00	\$33.15	\$1,160.25
50402 - 15 INCH TYPE I RCP STORM SEWER PIPE - L.F.	122.00	\$79.25	\$9,668.50
50403 - 18 INCH TYPE I RCP STORM SEWER PIPE - L.F.	720.00	\$83.25	\$59,940.00
50404 - 21 INCH TYPE I RCP STORM SEWER PIPE - L.F.	198.00	\$84.00	\$16,632.00
50405 - 24 INCH TYPE I RCP STORM SEWER PIPE - L.F.	883.00	\$97.00	\$85,651.00
50407 - 30 INCH TYPE I RCP STORM SEWER PIPE - L.F.	117.00	\$1,250.00	\$146,250.00
50409 - 36 INCH TYPE I RCP STORM SEWER PIPE - L.F.	219.00	\$150.00	\$32,850.00
50411 - 48 INCH TYPE I RCP STORM SEWER PIPE - L.F.	53.00	\$203.00	\$10,759.00
50421 - 29 INCH X 45 INCH TYPE I HERCP STORM SEWER PIPE - L.F.	270.00	\$182.00	\$49,140.00
50423 - 38 INCH X 60 INCH TYPE I HERCP STORM SEWER PIPE - L.F.	174.00	\$236.00	\$41,064.00
50499 - CONCRETE COLLAR - EACH	4.00	\$520.00	\$2,080.00

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023

CONTRACT NO. 8715

DATE: 2/23/23

Capitol Underground, Inc.

Item	Quantity	Price	Extension
50723 - 3'X3' STORM SAS - EACH	32.00	\$4,800.00	\$153,600.00
50724 - 4'X4' STORM SAS - EACH	3.00	\$7,400.00	\$22,200.00
50725 - 5'X5' STORM SAS - EACH	5.00	\$8,750.00	\$43,750.00
50792 - STORM TAP - EACH	3.00	\$1,650.00	\$4,950.00
50801 - UTILITY LINE OPENING (ULO) (UNDISTRIBUTED) - EACH	70.00	\$700.00	\$49,000.00
70101 - FURNISH AND INSTALL STYROFOAM - EACH	70.00	\$180.00	\$12,600.00
90030 - MODIFIED 4'X7' STORM SAS - EACH	1.00	\$8,150.00	\$8,150.00
90031 - 5'X7' STORM SAS - EACH	1.00	\$9,950.00	\$9,950.00
90032 - RELOCATE WATER LATERAL SERVICE - EACH	14.00	\$1,900.00	\$26,600.00
90033 - RELOCATE WATER MAIN - EACH	26.00	\$3,000.00	\$78,000.00
20331 - ABANDON SEWER ACCESS STRUCTURE (UNDISTRIBUTED) - EACH	1.00	\$1,150.00	\$1,150.00
20335 - ABANDON SEWER PIPE WITH SLURRY - C.Y.	4.25	\$1,700.00	\$7,225.00
50103 - RECONSTRUCT BENCH AND FLOWLINE(S) - EACH	4.00	\$1,015.00	\$4,060.00
50203 - UNDERCUT FOR SANITARY SEWER - C.Y.	130.00	\$50.00	\$6,500.00
50212 - SELECT BACKFILL SANITARY SEWER - T.F.	1681.00	\$0.01	\$16.81
50301 - 8 INCH PVC SEWER PIPE - L.F.	917.00	\$125.00	\$114,625.00
50303 - 12 INCH PVC SANITARY SEWER PIPE - L.F.	385.00	\$190.00	\$73,150.00
50353 - SANITARY SEWER LATERAL - L.F.	382.00	\$60.00	\$22,920.00
50356 - RECONNECT - EACH	12.00	\$3,600.00	\$43,200.00
50361 - WASTEWATER CONTROL - L.S.	1.00	\$19,500.00	\$19,500.00
50701 - 4' DIA SANITARY SAS - EACH	11.00	\$5,700.00	\$62,700.00
50702 - 5' DIA SANITARY SAS - EACH	2.00	\$15,750.00	\$31,500.00
50771 - INTERNAL CHIMNEY SEAL - EACH	2.00	\$530.00	\$1,060.00
50783 - INSIDE DROP - V.F.	28.49	\$325.00	\$9,259.25
50791 - SANITARY SEWER TAP - EACH	9.00	\$1,570.00	\$14,130.00
50797 - EXTERNAL SEWER ACCESS STRUCTURES JOINT SEAL - EACH	5.00	\$775.00	\$3,875.00
90034 - ADJUST LATERAL W/RISER (5312 & 5316 LMD) - EACH	2.00	\$4,100.00	\$8,200.00
90035 - ADJUST MMSD SANITARY ACCESS STRUCTURE - EACH	1.00	\$560.00	\$560.00
70002 - FURNISH AND INSTALL 6 INCH PIPE & FITTINGS - L.F.	180.00	\$116.00	\$20,880.00
70003 - FURNISH AND INSTALL 8 INCH PIPE & FITTINGS - L.F.	100.00	\$163.00	\$16,300.00
70005 - FURNISH AND INSTALL 12-INCH PIPE & FITTINGS - L.F.	50.00	\$405.00	\$20,250.00
70032 - FURNISH AND INSTALL 6-INCH WATER VALVE - EACH	5.00	\$3,185.00	\$15,925.00
70033 - FURNISH AND INSTALL 8-INCH WATER VALVE - EACH	1.00	\$3,830.00	\$3,830.00
70034 - FURNISH AND INSTALL 12-INCH WATER VALVE - EACH	2.00	\$6,215.00	\$12,430.00
70040 - FURNISH, INSTALL AND SALVAGE HYDRANT - EACH	3.00	\$6,850.00	\$20,550.00
70056 - RECONNECT 1-INCH SERVICE LATERAL - EACH	1.00	\$2,350.00	\$2,350.00
70080 - CUT-IN OR CONNECT TO EXISTING WATER SYSTEM - EACH	10.00	\$1,850.00	\$18,500.00
70090 - ABANDON WATER VALVE BOX - EACH	1.00	\$290.00	\$290.00
70111 - FURNISH & INSTALL ANODE - EACH	9.00	\$205.00	\$1,845.00
90020 - ABANDON & SALVAGE HYDRANT - EACH	1.00	\$1,900.00	\$1,900.00
20101.1 - EXCAVATION CUT (FOR STORMWATER FEATURES) - C.Y.	203.00	\$45.25	\$9,185.75
20223.1 - PLANTING MIX TOPSOIL (FOR STORMWATER FEATURES) - C.Y.	76.00	\$36.50	\$2,774.00
20225 - ENGINEERED SOIL - TON	61.00	\$106.00	\$6,466.00
21110 - TERRACE RAIN GARDEN - S.F.	796.00	\$26.55	\$21,133.80
50321 - 8 INCH PVC PRESSURE SEWER PIPE (STORM) - L.F.	221.00	\$71.50	\$15,801.50
90036 - HYBRID TURF INSTANT ARMOR MAT WITH NATIVE SEED - SY	29.00	\$96.00	\$2,784.00
90037 - 8" DOME GRATE ASSEMBLY - EACH	2.00	\$680.00	\$1,360.00

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023

CONTRACT NO. 8715

DATE: 2/23/23

Capitol Underground, Inc.

Item	Quantity	Price	Extension
90038 - 8" SCH 35 SWEEP AND CLEANOUT - EACH	3.00	\$855.00	\$2,565.00
90039 - 8" DRILLED PVC UNDERDRAIN - L.F.	18.00	\$62.00	\$1,116.00
90040 - PEA GRAVEL - C.Y.	2.00	\$76.00	\$152.00
50722 - 6'X6' CATCHBASIN - EACH	3.00	\$13,600.00	\$40,800.00
141 Items	Totals		\$3,823,814.98



Department of Public Works
Engineering Division
 Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115
 210 Martin Luther King, Jr. Boulevard
 Madison, Wisconsin 53703
 Phone: (608) 266-4751
 Fax: (608) 264-9275
engineering@cityofmadison.com
www.cityofmadison.com/engineering

Deputy City Engineer
 Gregory T. Fries, P.E.

Deputy Division Manager
 Kathleen M. Cryan

Principal Engineer 2
 John S. Fahrney, P.E.
 Christopher J. Petykowski, P.E.
 Janet Schmidt, P.E.

Principal Engineer 1
 Christina M. Bachmann, P.E.
 Mark D. Moder, P.E.
 James M. Wolfe, P.E.

Facilities & Sustainability
 Bryan Cooper, Principal Architect

Land Information & Official Map Manager
 Eric T. Pederson, P.S.

Financial Manager
 Steven B. Danner-Rivers

BIENNIAL BID BOND

Capitol Underground, Inc.
 (a corporation of the State of Wisconsin)
 (individual), (partnership), (hereinafter referred to as the "Principal") and
Western Surety Company

a corporation of the State of South Dakota (hereinafter referred to as the "Surety") and licensed to do business in the State of Wisconsin, are held and firmly bound unto the City of Madison, Wisconsin (hereinafter referred to as the "City"), in the sum equal to the individual proposal guaranty amounts of the total bid or bids of the Principal herein accepted by the City, for the payment of which the Principal and the Surety hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

The condition of this obligation is that the Principal has submitted to the City certain bids for projects from the time period of 2/1/2022 through 2/1/2024.

If the Principal is awarded the contract(s) by the City and, within the time and manner required by law after the prescribed forms are presented for its signature, the Principal enters into (a) written contract(s) in accordance with the bid(s), and files with the City its bond(s) guaranteeing faithful performance and payment for all labor and materials, as required by law, or if the City rejects all bids for the work described, then this obligation shall be null and void; otherwise , it shall remain in full force and effect.

In the event the Principal shall fail to execute and deliver the contract(s) or the performance and payment bond(s), all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to pay to the City within ten (10) calendar days of written demand a total equal to the sum of the individual proposal guaranty amounts of the total bid(s) as liquidated damages.

The Surety, for value received, hereby agrees that the obligations of it and its bond shall be in no way impaired or affected by any extension of time within which the City may accept a bid, and the Surety does hereby waive notice of any such extension.

This bond may be terminated by the Surety upon giving thirty (30) days written notice to the City of its intent to terminate this bond and to be released and discharged therefrom, but such termination shall not operate to relieve or discharge the Surety from any liability already accrued or which shall accrue before the expiration of such thirty (30) day period.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

PRINCIPAL

Capitol Underground, Inc.
COMPANY NAME AFFIX SEAL

February 1, 2022
DATE

By: [Signature]
SIGNATURE AND TITLE CONTROLLER

SURETY

Western Surety Company
COMPANY NAME AFFIX SEAL

February 1, 2022
DATE

By: [Signature]
SIGNATURE AND TITLE Attorney-in-Fact

This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under National Provider No. 8996012 for the year 2022 and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked.

February 1, 2022
DATE

[Signature]
AGENT SIGNATURE

828 John Nolen Drive
ADDRESS

Madison, WI 53713
CITY, STATE AND ZIP CODE

608-273-0655
TELEPHONE NUMBER

Note to Surety and Principal: Any bid submitted which this bond guarantees may be rejected if the Power of Attorney form showing that the Agent of Surety is currently authorized to execute bonds on behalf of Surety is not attached to this bond.

CERTIFICATE OF BIENNIAL BID BOND

TIME PERIOD- VALID (FROM/TO) 2/1/2022 - 2/1/2024
NAME OF SURETY Western Surety Company
NAME OF CONTRACTOR Capitol Underground, Inc.
CERTIFICATE HOLDER City of Madison, Wisconsin

This is to certify that a biennial bid bond issued by the above-named Surety is currently on file with the City of Madison.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the biennial bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing Surety will give thirty (30) days written notice to the certificate holder indicated above.



SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE

2/1/22

DATE

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Pamela Lynn Ronski, Travis J Schreiber, Tracy M Krause, Individually

of Madison, WI, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 15th day of June, 2021.



WESTERN SURETY COMPANY

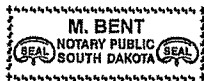
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 15th day of June, 2021, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

March 2, 2026



M. Bent, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 1st day of February, 2022.



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary

Form F4280-7-2012

Go to www.cnasurety.com > Owner / Oblige Services > Validate Bond Coverage, if you want to verify bond authenticity.

SECTION H: AGREEMENT

THIS AGREEMENT made this 22nd day of March in the year Two Thousand and Twenty-Three between **CAPITOL UNDERGROUND, INC.** hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted **MARCH 21, 2023**, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023 CONTRACT NO. 8715

2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.
3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of THREE MILLION EIGHT HUNDRED TWENTY-THREE THOUSAND EIGHT HUNDRED FOURTEEN AND 98/100 (\$3,823,814.98) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.
4. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered. The notice will include a job description, classification, qualifications and application procedures

and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement

Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.

2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.
3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or ten thousand dollars (\$10,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms "DBE, MBE and WBE" shall be substituted for the term "small business" in this Article.)

5. Substance Abuse Prevention Program Required. Prior to commencing work on the Contract, the Contractor, and any Subcontractor, shall have in place a written program for the prevention of substance abuse among its employees as required under Wis. Stat. Sec. 103.503.
6. **Contractor Hiring Practices.**

Ban the Box - Arrest and Criminal Background Checks. (Sec. 39.08, MGO)

This provision applies to all prime contractors on contracts entered into on or after January 1, 2016, and all subcontractors who are required to meet prequalification requirements under MGO 33.07(7)(l), MGO as of the first time they seek or renew pre-qualification status on or after January 1, 2016. The City will monitor compliance of subcontractors through the pre-qualification process.

- a. **Definitions.** For purposes of this section, "Arrest and Conviction Record" includes, but is not limited to, information indicating that a person has been questioned, apprehended, taken into custody or detention, held for investigation, arrested, charged with, indicted or tried for any felony, misdemeanor or other offense pursuant to any law enforcement or military authority.

"Conviction record" includes, but is not limited to, information indicating that a person has been convicted of a felony, misdemeanor or other offense, placed on probation, fined, imprisoned or paroled pursuant to any law enforcement or military authority.

"Background Check" means the process of checking an applicant's arrest and conviction record, through any means.

- b. **Requirements.** For the duration of this Contract, the Contractor shall:
 1. Remove from all job application forms any questions, check boxes, or other inquiries regarding an applicant's arrest and conviction record, as defined herein.

2. Refrain from asking an applicant in any manner about their arrest or conviction record until after conditional offer of employment is made to the applicant in question.
3. Refrain from conducting a formal or informal background check or making any other inquiry using any privately or publicly available means of obtaining the arrest or conviction record of an applicant until after a conditional offer of employment is made to the applicant in question.
4. Make information about this ordinance available to applicants and existing employees, and post notices in prominent locations at the workplace with information about the ordinance and complaint procedure using language provided by the City.
5. Comply with all other provisions of Sec. 39.08, MGO.

c. Exemptions: This section shall not apply when:

1. Hiring for a position where certain convictions or violations are a bar to employment in that position under applicable law, or
2. Hiring a position for which information about criminal or arrest record, or a background check is required by law to be performed at a time or in a manner that would otherwise be prohibited by this ordinance, including a licensed trade or profession where the licensing authority explicitly authorizes or requires the inquiry in question.

To be exempt, Contractor has the burden of demonstrating that there is an applicable law or regulation that requires the hiring practice in question, if so, the contractor is exempt from all of the requirements of this ordinance for the position(s) in question.

**LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023
CONTRACT NO. 8715**

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused this contract to be sealed with its corporate seal and to be executed by its Mayor and City Clerk on the dates written below.

Countersigned:

CAPITOL UNDERGROUND, INC.

Danilo Camacho 3/22/23
Witness Date

[Signature] 3-22-23
Company Name President Date

Danilo Camacho 3/22/23
Witness Date

[Signature] 3/22/23
Secretary Date

CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

[Signature] 3/30/2023
Finance Director Date

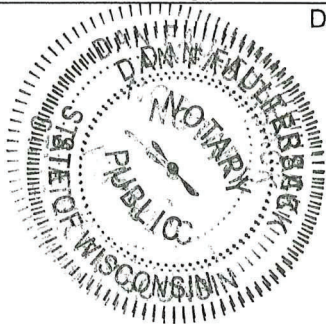
Michael Hayes 3-30-23
City Attorney Date

[Signature] 3/30/2023
Witness Date

[Signature] 3/30/23
Mayor Date

[Signature] 3/27/23
Witness Date

[Signature] for 3-27-23
City Clerk Date



SECTION I: PAYMENT AND PERFORMANCE BOND

LET ALL KNOW BY THESE DOCUMENTS PRESENTED, that we CAPITOL UNDERGROUND, INC. as principal, and Western Surety Company Company of South Dakota as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of **THREE MILLION EIGHT HUNDRED TWENTY-THREE THOUSAND EIGHT HUNDRED FOURTEEN AND 98/100 (\$3,823,814.98)** Dollars, lawful money of the United States, for the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully perform all of the terms of the Contract entered into between him/herself and the City of Madison for the construction of:

LAKE MENDOTA DRIVE ASSESSMENT DISTRICT - 2023 CONTRACT NO. 8715

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the prosecution of said work, and save the City harmless from all claims for damages because of negligence in the prosecution of said work, and shall save harmless the said City from all claims for compensation (under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is to be void, otherwise of full force, virtue and effect.

Signed and sealed this 22nd day of March, 2023

Countersigned:

Dan M. Camacho
Witness

CAPITOL UNDERGROUND, INC.
Company Name (Principal)
[Signature]
President Seal

[Signature]
Secretary

Western Surety Company Seal
Surety
 Salary Employee Commission

Approved as to form:

Michael Haas
City Attorney

By [Signature]
Attorney-in-Fact Tracy M. Krause

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Producer Number 8996012 for the year 2023, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

March 22, 2023
Date

[Signature]
Agent Signature

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Travis J Schreiber, Tracy M Krause, Becky Jo Sawall, Individually

of Madison, WI, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 14th day of February, 2022.



WESTERN SURETY COMPANY

Paul T. Bruflat

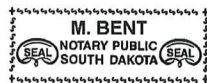
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 14th day of February, 2022, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

March 2, 2026



M. Bent

M. Bent, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 22nd day of March, 2023.



WESTERN SURETY COMPANY

L. Nelson

L. Nelson, Assistant Secretary

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.