

\$4,410,674.23

BID OF S&L UNDERGROUND, INC.

2023

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES

CONTRACT NO. 8693

PROJECT NO. 14215

MUNIS NO. 14215

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL  
MADISON, WISCONSIN ON JANUARY 23, 2024

CITY ENGINEERING DIVISION  
1600 EMIL STREET  
MADISON, WISCONSIN 53713

<https://bidexpress.com/login>



**SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES  
CONTRACT NO. 8693**

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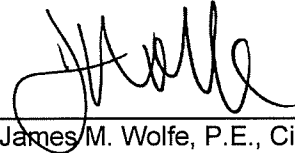
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This Proposal, and Agreement have  
been prepared by:

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



James M. Wolfe, P.E., City Engineer

JMW: mg

# 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:	SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES
CONTRACT NO.:	8693
SBE GOAL	4%
BID BOND	5%
SBE PRE BID MEETING (2:00 P.M.)	12/07/2023 (VIRTUAL)
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	12/07/2023
BID SUBMISSION (2:00 P.M.)	12/14/2023
BID OPEN (2:30 P.M.)	12/14/2023
PUBLISHED IN WSJ	11/30/2023 & 12/07/2023

**SBE PRE BID MEETING:** Pre-Bid Meetings are being held virtually. Advance registration is required. Visit the SBE Meeting web page on Engineering's web site: <https://www.cityofmadison.com/engineering/developers-contractors/contractors/how-to-bid-publicworks/contracts/small-business-enterprise-sbe-meetings>. Questions regarding SBE Program requirements may be directed to Tracy Lomax, Affirmative Action Division. Tracy may be reached at (608) 267-8634, or by email, [TLomax@cityofmadison.com](mailto:TLomax@cityofmadison.com).

**PREQUALIFICATION APPLICATION:** Forms are available on our website, [www.cityofmadison.com/engineering/developers-contractors/contractors/how-to-get-prequalified](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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

### SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES CONTRACT NO. 8693

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**

The work under this contract shall include, but is not limited to, replacement of sanitary sewer main, replacement of sanitary laterals, replacement of water main, replacement of storm sewer main and storm sewer structures, excavation, base preparation, curb and gutter, concrete medians, driveway aprons, sidewalk replacement, asphalt pavement, traffic signals, pavement marking and signing.

The length of the project for the work on Sheboygan Avenue between Whitney Way and Eau Claire Avenue is approximately 870 linear feet. The length of the project for the work on Sheboygan Avenue between Eau Claire Avenue and Segoe Road is approximately 1730 linear feet. The length of the project for the work on Segoe Road between Regent Street and University Avenue is approximately 2450 linear feet. The Contractor shall view the sites 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**

Be advised that there shall be multiple mobilizations and/or remobilizations to complete construction operations, for example such items as: erosion control, utility installations, excavation, base course placement, concrete and asphalt work, restoration, pavement marking, and other incidental items related to the staging.

All private storm sewer discharges shall be maintained for all properties in the project areas.

There are two BRT (Bus Rapid Transit) stations planned within the project limits. The contractor should take care to avoid damaging brand new BRT infrastructure. The BRT station at Sheboygan Avenue and Eau Claire is complete, but the BRT station at Sheboygan Avenue and Segoe Road will be constructed in the spring alongside this project at the same time. In addition to pavement match points, there are 5 proposed storm inlets adjacent or inside the BRT project limits which will require special attention to coordinate. Storm Sewer and Water Main on Segoe Road north of Sta. 122+50 must be completed when required according to the BRT construction schedule.

This contract includes all asphalt pavement and base within the BRT project limits, not including the bike path behind their station at the NW corner of the Sheboygan Avenue and Segoe Road intersection. It also includes BRT pavement marking as shown on the plans. Any additional colored paint will be completed by the BRT project.

This contract does not include any concrete pavement, sidewalk, ramps, curb, or restoration work associated with the BRT project. These areas are marked as 'BRT Station' or 'Proposed BRT Improvements' on the plans. Please coordinate with the BRT contractor to properly align completion schedules for adjacent work.

The contractor will coordinate construction schedules, road closures, plans, and match points with the following team for BRT:

Michael Schneider, AECOM (Design); [michael.schneider2@aecom.com](mailto:michael.schneider2@aecom.com)  
Monty Carlson, HNTB (Construction); [mcarlson@HNTB.com](mailto:mcarlson@HNTB.com)  
Graham Carey, City of Madison BRT program manager; [gcarey@cityofmadison.com](mailto:gcarey@cityofmadison.com)

The Madison Yards development is located on the NW corner of Sheboygan Avenue and Segoe Road. The contractor should take care to avoid damaging brand new right of way improvements on the north side of Sheboygan Avenue approximately from Sta 24+75.00 to Sta 29+00.00 and the west side of Segoe Road from Sta 125+00.00 to Sta 130+50.00.

Construction on the Madison Yards site or adjacent ROW is not anticipated to conflict with this project. Should any issues arise, the Contractor should contact the Madison Yards developer Sean Roberts at [sroberts@summitsmith.com](mailto:sroberts@summitsmith.com) or their primary contractor Mitch Kidd at [mkidd@cdsmith.com](mailto:mkidd@cdsmith.com).

### **Access to Properties**

The Contractor shall maintain access to all properties along Sheboygan Avenue between Whitney Way and Segoe Road, and Segoe Road between Regent Street and University Avenue at all times. This includes local residents, mail delivery, garbage/recycling pickup and emergency vehicles. Notice shall be given to the residents of the properties 72 hours before any work is done that would partially or fully obstruct their driveways. The Contractor shall coordinate with parking lot property owners to maintain access and notify residents of access routes. Maintenance of access to properties shall be considered incidental to the work being performed.

### **Existing Items to Remain**

The Contractor shall use care around existing trees, plantings, fences, walls, steps, sidewalks, and driveways that are indicated on the plans to remain. Damage to these items during construction shall be repaired or replaced at the Contractor's expense. No trees, other than those shown on the plan to be removed, shall be cut without the approval of the Construction Engineer and the City Forester; the abutting property owners shall be notified in accordance with the City's Administrative Procedure Memorandum No. 6-2.

### **Coordination with Utilities**

Work in this contract may require utility relocations or adjustments. 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 and provide working area for installation of new facilities.

The City of Madison has underground lighting conduit (Sheboygan), fiber duct (Segoe Median), and TE fiber lines (Segoe @ Regent) within the project limits. Use the following contacts to resolve any potential conflicts:

Lighting Conduit: Chad Veinot, [cveinot@cityofmadison.com](mailto:cveinot@cityofmadison.com)  
Fiber Duct: Taletha Skar, [tskar@cityofmadison.com](mailto:tskar@cityofmadison.com)  
TE fiber: Jerry Schippa, [jschippa@cityofmadison.com](mailto:jschippa@cityofmadison.com)

In addition to the public utilities, MCI (underground), Charter Communications (underground), MG&E Gas (underground), and MG&E Electric (overhead & underground) have facilities within the project limits.

MCI has underground fiber lines within the project limits. MCI crosses a proposed storm (approx. 1.5' clearance) and water line (approx. 3' clearance) at the intersection of Sheboygan Avenue and Segoe Road. The Contractor shall contact Randy Cicatello, [randy.cicatello@verizon.com](mailto:randy.cicatello@verizon.com) to resolve potential conflicts.

Charter Communications has underground lines within the project limits. The Contractor shall contact Sean Potter, [Sean.Potter@charter.com](mailto:Sean.Potter@charter.com) to resolve potential conflicts.

MG&E gas has gas facilities within the project limits. The Contractor shall contact Roger Ahles, [rahles@mge.com](mailto:rahles@mge.com) to resolve potential conflicts.

MG&E has overhead lines and underground electric facilities within the project limits that may need to be relocated. The underground facilities are located from Frey St to University Avenue, and crossing Segoe at Sawyer Terrace. No MG&E overhead poles need be disturbed in this project. The Contractor shall contact Tony Sanfratello, [asanfratello@mge.com](mailto:asanfratello@mge.com) to coordinate any relocation work.

## **SECTION 107.2            PROTECTION AND RESTORATION OF PROPERTY AND PROPERTY OWNERS**

Care shall be taken not to disturb property irons, sod areas, retaining walls, or other items on private property. Sidewalk forms, form pins and other items incidental to the work shall, at no time, be placed on private property. If private property is disturbed, it shall be restored promptly and at the expense of the contractor.

## **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 Construction 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**

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.

Segoe Road and Sheboygan Avenue may be closed to thru traffic at the project limits. Access to commercial and residential driveways must be maintained at all times. Construct driveways in halves when necessary to allow local traffic or notify residence/business 72 hours for full closures. Do not close adjacent intersections to local traffic at the same time. This applies to Vernon Boulevard, Heather Crest, and Frey Street.

Eau Claire Avenue shall remain open across Sheboygan Avenue at all times.

When the sanitary sewer is installed in the Segoe Avenue/Regent Street intersection, the Contractor may close the eastbound and westbound thru movements within the intersection and all left turn movements for a maximum of 5 calendar days. Right turns from eastbound Regent Street to southbound Segoe Road and from northbound Segoe Rd to eastbound Regent Street shall be maintained during this time. Contact [metronotice@cityofmadison.com](mailto:metronotice@cityofmadison.com) at least 7 days prior.

Sawyer Terrace is a one way to the east and must remain open at all times to local traffic. This is especially important for emergency services.

Message boards shall be placed ten (10) days prior to the Segoe Road and Sheboygan Road closure at each end. Place total eight (8) message boards throughout project area, two (2) boards on the north end

and two (2) on the south end of Segoe Road. For Sheboygan Avenue, place two (2) boards on east side and two (2) boards on west side.

Message boards shall read:

“Segoe Road to close starting (start date) to (end date), local traffic only”

“Sheboygan Avenue to close starting (start date) to (end date), local traffic only”

Madison Metro shall be notified ten (10) days in advance for bus reroute. Madison Metro can be notified by emailing [metronotice@cityofmadison.com](mailto:metronotice@cityofmadison.com). This allows adequate notice for Metro to reroute bus routes and move stops when necessary.

Traffic Control shall be measured as a lump sum. Payment for the 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, including arrow boards, for providing, placing, and maintaining work zone. Maintaining shall include replacing damaged or stolen traffic control devices. Temporary pavement markings, tubular posts and bases and electronic message boards shall be paid for as separate bid items. Traffic control to install temporary or permanent pavement markings shall be included in the Traffic Control Lump Sum Bid Item.

Contractor shall supply all necessary mounting hardware and supports for signing. This shall also include covering and uncovering any conflicting overhead signs during the project. Contractor shall display all signing so as to be easily viewed by all users. Contractor shall mount traffic control on posts or existing poles or drive posts whenever possible. Existing poles may be used with approval of Construction Engineer. Contractor shall inspect traffic control daily to ensure all traffic control remains in place during the project.

The traffic control plan may need to be altered as conditions change in the field or as unexpected conditions occur. This shall include relocating existing traffic control or providing additional traffic control. This should be considered incidental to providing traffic control for the project.

Type A warning lights shall be installed on all barricades used in the project per State of Wisconsin S.D.D. 15C2-4B. Contractor shall also place Type C warning lights on any barrels used to taper traffic or lane closures.

All temporary inlet or structure plating for traffic control phasing shall be considered incidental to the traffic control bid item.

Contractor shall notify the City of Madison Police Department, Fire Department, Madison Metro, and Traffic Engineering 48 hours in advance of all switchovers of traffic lanes and closures of streets. Notifications must be given by 4:00 P.M. on Thursday for any such work to be done on the following Monday.

Maintain sidewalk at all times on one side of the street at all times and both sides whenever possible. When sidewalk must be closed for construction purposes, contractor shall ensure that sidewalk on opposite side of the street is open. Sidewalk closures shall be signed at the crosswalks prior to the closure. Sidewalk access to all businesses shall remain open from at least one end of a block at all times. Sidewalks shall be fully open during non-working hours except where necessary to enable sidewalk to cure. Maintaining Sidewalk is considered incidental to the contract.

Construction equipment and materials are not to be stored within the street right-of-way that is open to traffic during non-working hours.

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, 608-266-4681, one day prior to the placement of the plates.

Contractor is responsible for obtaining and installing temporary no parking signs to facilitate traffic control plan or as necessary to complete the work within the contract. The contractor shall contact John Villareal



with the City of Madison Parking Utility (608-267-8756) at least 3 working days prior to needing the signs. Contractor shall post signs in accordance with the City of Madison Police Department Guidelines for temporary no parking restrictions for construction or special events. The guidelines can be found at the link listed below. This shall be considered incidental to the traffic control lump sum bid item.

[http://www.cityofmadison.com/business/pw/documents/guidelines\\_temporarynoparkingrestrictions.pdf](http://www.cityofmadison.com/business/pw/documents/guidelines_temporarynoparkingrestrictions.pdf)

The Contractor shall not remove traffic signs. For removal or replacement of traffic and parking signs, contact the traffic engineer on the project, Ali Heinritz, 215 Martin Luther King Jr. Blvd, Suite 109, 267-1102, 8:00 a.m. to 4:00 p.m., a minimum of 2 working days in advance of when any existing signs need to be removed. This service is provided free of charge. If the contractor removes the signs, the contractor will be billed for the reinstallation of, and any damage to, the signing equipment. The contractor shall notify the traffic engineer upon completion of final landscaping to have permanent signs reinstalled. The contractor shall expect a minimum of seven working days to have permanent signs reinstalled. The contractor shall leave in place all necessary traffic control until given notice by the construction engineer that permanent signing is in place and temporary traffic control may be removed.

Contact Ali Heinritz, City of Madison Traffic Engineering, at 608-267-1102 or [aheinritz@cityofmadison.com](mailto:aheinritz@cityofmadison.com) for questions on this spec.

### **BID ITEM 10801 – ROOT CUTTING – CURB & GUTTER**

The contract quantity is an undistributed amount to be used at the direction of the Construction Engineer.

#### **SECTION 108.2                      PERMITS**

The City of Madison has obtained a City of Madison Erosion Control Permit, has submitted a DNR Notice of Intent (NOI) to obtain coverage under a Construction Site General permit. The City of Madison will submit a DNR Sanitary Sewer Submittal but it is not expected to be issued before the start date of the project in order to coordinate with the BRT project. Sanitary work must not begin until the DNR issues the Sanitary Sewer Permit.

The Contractor shall meet the conditions of the permits by properly installing and maintaining the erosion control measures shown on the plans, specified in these Special Provisions, or as directed by the Construction Engineer or his designees. This work will be paid for under the appropriate contract bid items or, if appropriate items are not included in the contract, shall be paid for as Extra Work. A copy of the permit is available at the City of Madison, Engineering Division office.

The City's obtaining this permit 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**

Storm sewer and water items constructed under this contract on Segoe Road inside the BRT project limits (between approximately Sta. 122+75 and Sta. 125+00) must be completed **by May 31, 2024**. Upstream storm sewer, starting at structure S-45 through the BRT station, may be installed out of typical phasing in order to accommodate this schedule requirement.

Work on Sheboygan Avenue between Whitney Way and Eau Claire Avenue must be completed within **FORTY (40) CALENDAR DAYS**.

Work on Sheboygan Avenue between Eau Claire Avenue and Segoe Road must be completed within **SIXTY (60) CALENDAR DAYS**. If surface paving on this portion of Sheboygan Avenue will be completed at the same time as surface paving on Segoe Road, then all work, excluding the surface paving and related work, shall be completed within this timeframe. If surface paving will not be completed in

coordination with surface paving on Segoe Road, then all work, up to and including surface paving and pavement markings in this location shall be completed within the specified timeframe. The start date for this timeframe will begin once there is disturbance on Sheboygan Avenue west of Station 27+50.

Segoe Road must be reopened to all through traffic in both directions, including vehicles, pedestrians, and bicycles by **September 2, 2024.**

All Work on this contract must be completed by **October 25, 2024.**

Work shall begin only after the start work letter is received. The Contractor shall notify the City Engineer of the selected start date in 2024 three (3) weeks in advance of said start date. If notice is not provided, the start date may be delayed and no additional compensation or time extensions will be granted for failure to provide the required notice.

### **SECTION 109.9 LIQUIDATED DAMAGES**

The fixed, agreed, and liquidated damages due the City of Madison from the Contractor for failure to complete storm sewer and water main work on Segoe Road inside the BRT project limits shall be \$1,750 per calendar day.

The fixed, agreed, and liquidated damages due the City of Madison from the Contractor for failure to complete all work under this contract by October 25, 2024 shall be \$3,500 per calendar day.

The fixed, agreed, and liquidated damages due the City of Madison from the Contractor for failure to reopen Segoe Road to all through traffic, including vehicles, pedestrians, and bicycles by September 2, 2024 shall be \$1,750 per calendar day.

The fixed, agreed, and liquidated damages due the City of Madison from the Contractor for failure to complete all work on Sheboygan Avenue between Whitney Way and Eau Claire Avenue within the specified timeframe shall be \$1,000 per calendar day.

The fixed, agreed, and liquidated damages due the City of Madison from the Contractor for failure to complete all work on Work on Sheboygan Avenue between Eau Claire Avenue and Segoe Road within the specified timeframe shall be \$1,200 per calendar day.

In the event that the Contractor fails to complete the work by any of the specified interim completion dates or timeframes or otherwise fails to complete the work on the overall contract by the specified date, the fixed, agreed, and liquidated damages due the City of Madison from the Contractor shall be the summed amounts.

### **BID ITEM 20101 – EXCAVATION CUT**

The 6" of topsoil removal called for in the Segoe Road median south of Sheboygan Ave., and the excavation cut for the Segoe Road median swale shown on the plans is included in the plan quantity for this contract.

### **BID ITEM 20204 – SELECT FILL**

The contract quantity is an undistributed amount to be used at the direction of the Construction Engineer.

### **BID ITEM 20219 – BREAKER RUN**

It is assumed that 25% of Segoe Road (Regent Street to University Avenue) and Sheboygan Avenue (Whitney Way to Sheboygan Road) will have to be undercut 1 foot and that material will be wasted. The Contractor shall place Breaker Run and Geotextile Fabric Type SAS (Non-Woven) in the undercut areas, paid under the appropriate bid item.

### **BID ITEM 20336 – PIPE PLUG**

With regard to the City of Madison Standard Specifications for Public Works Construction 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.

This contract includes four (4) sanitary and two (2) storm additional undistributed PIPE PLUGSs to be performed at the direction of the Engineer.

### **BID ITEM 20401 – CLEARING**

### **BID ITEM 20406 – GRUBBING**

The contract quantity is an undistributed amount to be used at the direction of the Construction Engineer.

### **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 30208 – HAND FORMED CONCRETE CURB & GUTTER**

The contract quantity is an undistributed amount to be used at the direction of the Construction Engineer.

### **BID ITEM 40231 – ASPHALT DRIVE & TERRACE**

The contract quantity is an undistributed amount to be used at the direction of the Construction Engineer.

### **BID ITEM 40301 – FULL WIDTH GRINDING**

The contract quantity is an undistributed amount to be used at the direction of the Construction Engineer.

## **ARTICLE 500              SEWER AND SEWER STRUCTURES GENERAL**

The sewer designer for the project is Todd Chojnowski. He may be contacted at (608) 266-4094 or [tchojnowski@cityofmadison.com](mailto:tchojnowski@cityofmadison.com).

### **SANITARY SEWER GENERAL**

This project shall include installing approximately 338 feet of new 8" PVC SDR-35, 880 feet of new 10" PVC SDR-35/SDR-26, and 390 feet of 12" PVC SDR-35/SDR-26 sewer main and 208 feet of new sanitary lateral (8" laterals paid as 8" Sewer Main).

ASTM D3034 SDR-35 sewer main and lateral as called for on the plan set shall be payable under Sanitary Sewer Main (Bid Item 50301) and Sanitary Lateral (Bid Item 50353). No additional compensation will be granted for ASTM D3034 SDR-26 pipe material

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 Latest Edition. 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.

Contractors shall have a locator device on-site if they intend to start laying lateral pipe at the property line to minimize the amount of extra sidewalk removal. Each sanitary lateral shall have a maximum of 4 sidewalk squares removed and replaced. No additional compensation shall be awarded beyond this amount for the replacement of a sewer lateral. If laterals called for reinstatement on the plans are to be plugged under the direction of the engineer on-site, Contractors are required to use a sonde device to confirm that the laterals are not active.

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

The sanitary permit is not expected to be issued by the DNR at the start date of the project. Sanitary work must not begin until the permit is obtained.

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.

### **STORM SEWER GENERAL**

Storm sewer pipe work shall include installing new 12", 15" and 18" storm sewer main, installing new inlets and structures and reconnection of existing storm sewer infrastructure.

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.

Connection of new pipes to existing structures shall be accommodated with a Storm Sewer Tap – Bid Item 50792.

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.

Storm sewer work located within the limits of the BRT project which would affect the progress of the BRT project located between 28+75.00 and 30+75.00 & 123+00.00 and 125+00.00 must be completed according to the BRT project schedule. This storm work shall be coordination with the site contractor for the BRT project.

### **BID ITEM 50225 – UTILITY TRENCH PATCH TYPE III**

The contract quantity is an undistributed amount to be used at the direction of the Construction Engineer.

**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), each sanitary lateral shall have a minimum of two (2) electronic markers with the City providing the Contractor with the required number of electronic markers. For sanitary laterals, which only include the installation of a wye, a marker ball shall be installed directly above the wye connection to the main.

**BID ITEM 50762 – SADDLE INLET TYPE II**

**DESCRIPTION**

This work shall include, but not be limited to, fabrication and installation of a Saddle Inlet Type II. See City of Madison Standard Detail 5.7.9. for specifics of fabrication and installation except creating the opening into the storm box culvert. To create the opening into the 3'x7' storm box culvert, a 12" core shall be used to minimize the damage to the box culvert under a roadway. The core will be paid under bid item 50792 (STORM TAP).

**METHOD OF MEASUREMENT**

Saddle Inlet Type II shall be measured per each specific instance as identified in the field.

**BASIS OF PAYMENT**

Saddle Inlet Type II shall be paid for at the contract unit price, which shall be full compensation for all material, and for all labor, tools, equipment and incidentals necessary to complete the work.

**BID ITEM 50801 – UTILITY LINE OPENING (ULO) (UNDISTRUBUTED)**

The work under this item shall be completed in accordance with Article 508 of the City of Madison Standard Specifications for Public Works Construction Latest Edition. It is the discretion of the Contractor to locate utilities by either a trench excavation or by a pothole technique. However, 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 five (5) additional undistributed ULOs to be performed at the direction of the Construction Engineer.

**SECTION 701 PROVISIONS FOR WATER INSTALLATION AND ABANDONMENT**

The water designer for this project is:

- Ryan Newman  
608.261.9640  
rnewman@madisonwater.org

This project consists of water main improvements Segoe Road, from Vernon Boulevard to University Avenue as well as improvements to the intersections of Vernon Boulevard, Sheboygan Avenue, Sawyer Terrace, and Frey Street. The project also includes abandoning existing water main. 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.

The existing water main infrastructure in this area consists of 6-inch cast iron and ductile iron pipe from the 1950's. A general outline of the work is as follows:

- Furnish and install new 6-inch, 8-inch, and 12-inch ductile iron water main and fittings as shown on the plans.
- Replace existing services as shown on the plans.
- Abandon the existing water main with a series of "cut-in" and "cut-off" points as shown on the plans.
- Abandon valve boxes and valve structures on abandoned water main, and curb boxes on any abandoned services.
- Adjust new valve boxes, hydrants, and curb boxes to appropriate grades on both Segoe Road and Sheboygan Avenue.

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

### **SECTION 703 CONSTRUCTION METHODS**

Perform all work in accordance with these provisions and the City of Madison Standard Specifications For Public Works Construction, 2023 Edition. Keep all valves accessible and functioning throughout the duration of the work or as directed otherwise by the Water Utility representative.

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 703.8 WATER MAIN SHUTOFFS**

Contact affected business owners and/or managers before planning water service outages and schedule outages to accommodate their business needs within allowable working hours including scheduling service outages on weekends. Sequence water main operations to minimize outages to affected business owners, and residents. Specific requirements for advanced outage notifications and restrictions for their timing are noted in the sections below.

- **The Overlook at Hilldale, 4620 Frey Street.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Kristy (608) 238-3776 (office) AND email Hilldale@stonehousedevlopment.com
- **Venture Apartments, 619 N Segoe Road.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Tami H. (608) 268-4983 (office)
- **The Coventry, 601 N Segoe Road.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Tyrone Bell (608) 516-1891 (cell)
- **Segoe Terrace, 602 Sawyer Terrace.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Julia (608) 231-2343 (office)
- **Renaissance Senior Living, 602 N Segoe Road.**
  - Provide notification **with as much time as possible** in advance of service outage.
  - Contact: Jamison (608) 949-7550 (office)
- **Vacant, 517 N Segoe Road.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Caleb (608) 284-0132 (cell)
- **Vacant, 401 N Segoe Road.**
  - Provide notification **a minimum of two business days** in advance of service outage.

- Contact: Caleb (608) 284-0132 (cell)
- 
- **Karen Arms Apartments, 420 N Segoe Road.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Patrick (608) 442-4406 (office)
- 
- **Hamptons at Hilldale, 205 N Segoe Road.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Taylor (608) 443-4362 (office) OR (920) 789-8341 (cell)
- 
- **The Manchester on Midvale, 226 Midvale Boulevard.**
  - Provide notification **a minimum of two business days** in advance of service outage.
  - Contact: Lauren (608) 438-2291 (cell)

### **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 – TEMPORARY CROSSWALK ACCESS**

#### **DESCRIPTION**

This special provision describes maintaining accessible crosswalks crossing the construction zone. Maintaining accessible crosswalks consists of maintaining a crosswalk on existing pavement, new pavement, or temporary surface material. Depending on the contractor selected location of the temporary crosswalk, installation of a temporary ramp shall be required to meet ADA guidelines, and shall be considered incidental to this bid item. If the temporary ramp crosses over existing curb and gutter, drainage through the gutter shall be maintained. Temporary Crosswalk Access shall be used to maintain pedestrian access as required under Maintenance of Traffic.

#### **MATERIALS**

Furnish a hard temporary surface material consisting of asphaltic surface or any grade of concrete, skid resistant steel plating, or alternative material as approved by the Construction Engineer. Gravel or base course material and rubber matting is not acceptable.

## **CONSTRUCTION**

Install, maintain, and remove temporary surface material at Temporary Crosswalk Access locations as shown on the plans or as directed by the Construction Engineer. Level and compact the surface prior to placing temporary surface material. The temporary crosswalk shall have a minimum clear width of 5 feet and meet the requirements of the current Americans with Disabilities Act Accessibility Guidelines (ADAAG). The Contractor shall maintain the Temporary Crosswalk Access when disturbed by construction operations or utility trenches or as necessary to keep the access in compliance with ADAAG. Depending on the amount of disturbance to the Temporary Crosswalk, maintaining that temporary access shall require removing and relaying the material in the same location.

Depending on the selected location for the temporary crosswalk, the Contractor shall also be required to provide a temporary ramp, which shall be included with this item.

## **METHOD OF MEASUREMENT**

Temporary Crosswalk Access shall be measured as Each acceptably installed, maintained and removed in a single location.

## **BASIS OF PAYMENT**

Temporary Crosswalk Access, as measured above, will be paid for at the contract unit price which is full compensation for furnishing, loading, hauling material; for preparing the foundation; for furnishing, placing, maintaining, and removing temporary surface material; for reconstructing or relaying the temporary surface material; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

## **BID ITEM 90002 – 12-INCH CONCRETE MEDIAN**

### **DESCRIPTION**

This item includes all materials, equipment, labor, forming, sealing, finishing and incidentals necessary to construct the 12-inch Concrete Median as shown on the plans. All work shall be performed per Part III of the City of Madison Standard Specifications.

### **MATERIALS**

The 12-in Concrete Medians shall be composed of concrete conforming to Part III of the City of Madison Standard Specifications. Adjust thickness of upper layer of aggregate base to 5.5-inches underneath the 12-inch Concrete Median.

### **METHOD OF MEASUREMENT**

The 12-in Concrete Medians shall be measured in place by the square feet of surface area.

### **BASIS OF PAYMENT**

The 12-in Concrete Medians, as measured above, will be full compensation at the contract unit price for all materials, equipment, labor, forming, sealing, finishing and incidentals necessary to complete the work as provided in the description.

## **BID ITEM 90003 – 7-INCH CONCRETE MEDIAN**

### **DESCRIPTION**



This item includes all materials, equipment, labor, forming, sealing, finishing and incidentals necessary to construct the 7-inch Concrete Median as shown on the plans. All work shall be performed per Part III of the City of Madison Standard Specifications.

#### **MATERIALS**

The 7-in Concrete Medians shall be composed of concrete conforming to Part III of the City of Madison Standard Specifications. Adjust thickness of upper layer of aggregate base to 10.5-inches underneath the 7-inch Concrete Median.

#### **METHOD OF MEASUREMENT**

The 7-in Concrete Medians shall be measured in place by the square feet of surface area.

#### **BASIS OF PAYMENT**

The 7-in Concrete Medians, as measured above, will be full compensation at the contract unit price for all materials, equipment, labor, forming, sealing, finishing and incidentals necessary to complete the work as provided in the description.

### **BID ITEM 90004 – BIKE LANE 3-INCH ASPHALT OR 7-INCH CONCRETE**

#### **DESCRIPTION**

This item includes all materials, equipment, labor, forming, sealing, finishing and incidentals necessary to construct the Bike Lane as shown on the plans. All work shall be performed per Part III or Part IV of the City of Madison Standard Specifications depending on whether contractor chooses to use concrete or asphalt pavement. The contractor shall inform the Project Engineer (Mario Galindez, (608) 266 – 4095) whether the Bike Lane will be concrete or asphalt at or before the Pre-Construction Meeting. Base materials will be paid under the appropriate bid items, and this item shall only be used for the surface material of the bike lane, excluding pavement within intersections.

#### **MATERIALS**

Contractor will choose a material to bid for this item. Descriptions of both materials are as follows:

Asphalt: The Bike Lane shall be composed of 3-inch HMA 4LT 58-28 S. Adjust thickness of aggregate base to 8.5-inches underneath the Bike Lane.

Concrete: The Bike Lane shall be composed of 7-inch Concrete. Sawcut transverse joints. Tie Bike Lane to concrete median and existing curb with #4 dowel bars spaced @ 3' OC. Place dowel bars a minimum of 3" from the surface or bottom of new or existing concrete. Dowel bars and sawcut joints are incidental to Bike Lane construction. Adjust thickness of aggregate base to 4.5-inches underneath the Bike Lane.

#### **METHOD OF MEASUREMENT**

The Bike Lane shall be measured in place by the square feet of surface area, and shall be measured between median noses adjacent to the bike lane, but not through street intersections.

#### **BASIS OF PAYMENT**

The Bike Lane, as measured above, will be full compensation at the contract unit price for all materials, equipment, labor, forming, sealing, finishing and incidentals necessary to complete the work as provided in the description. If the Contractor elects to use asphalt pavement as the surface material and chooses a construction method that involves over-paving and removing the excess, compensation will only be provided for the final bike lane surface, and no additional compensation will be provided for excess pavement or removal thereof.

**BID ITEM 90005 – REMOVE, SALVAGE, AND RESET PAVERS**

**DESCRIPTION**

This bid item includes all work, equipment and incidentals necessary to Remove and Salvage pavers in the terrace at 5001 Sheboygan Avenue. At this location, there are existing pavers used for a terrace walk. The Contractor shall carefully remove the pavers in accordance with Article 203 of the City of Madison Standard Specifications, salvage all materials, and replace them in kind, once work on the curb is completed. The removal and replacement of the pavers shall be limited to only the area necessary to complete the curb replacement work. The Contractor shall also remove any base material for the bricks and rocks as necessary to allow for restoration with topsoil only. Removal of the base material shall be considered incidental to this bid item.

**METHOD OF MEASUREMENT**

Remove, Salvage, and Reset Pavers shall be measured as a Lump Sum.

**BASIS OF PAYMENT**

Remove, Salvage, and Reset Pavers, as measured above, will be paid for at the contract price, which shall be full compensation for all work, equipment, and incidentals necessary to complete this bid item as outlined in the description.

**BID ITEM 90006 – SIDEWALK CURB**

**DESCRIPTION**

This bid item includes all work, materials, labor, forming, equipment and incidentals necessary to install Sidewalk Curb as directed in the field by the Construction Engineer. All work under this bid item shall be in accordance with Article 302 of the City of Madison Standard Specifications and supplemented as follows.

The sidewalk curb is to be installed, as directed by the Construction Engineer, at the back of walk in locations where the sidewalk is lowered. The maximum height of the sidewalk curb above the top of the back of sidewalk shall be 6", and the curb shall then be tapered back as necessary to match the existing grade of the sidewalk once the grade allows. The Sidewalk Curb shall be 6" wide and shall be poured monolithic with the adjacent sidewalk.

**METHOD OF MEASUREMENT**

Sidewalk Curb shall be measured by linear foot acceptably installed.

**BASIS OF PAYMENT**

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

**BID ITEM 90007 FURNISH & INSTALL LOOP DETECTORS WIRES**

**DESCRIPTION**

This special provision describes furnishing and installing loop detector wires cut into the surface of asphalt or concrete pavement or sidewalk or installed into the base aggregate, and connecting each loop detector to the loop detector lead in at the handhole. Each conductor shall be tied at ends to create three

or four passes. Whenever possible, loop detectors are preferred to be installed in the base course as opposed to cut into the surface, with the exception of bicycle loops which SHALL be cut into the surface.

**MATERIALS**

Furnish moisture resistant, UF-B 14-3 wire to be used as loop detector wire.

For installations cut into pavement, provide a flowable polyester sealant designed for traffic loop detectors. The sealant shall be self-leveling, flowable to allow the sealant to cover the loop within the slot. The sealant shall be rated for exterior use, shall be applicable to concrete and asphalt applications, and shall be grey in color when in concrete and black in color when in asphalt.

**CONSTRUCTION**

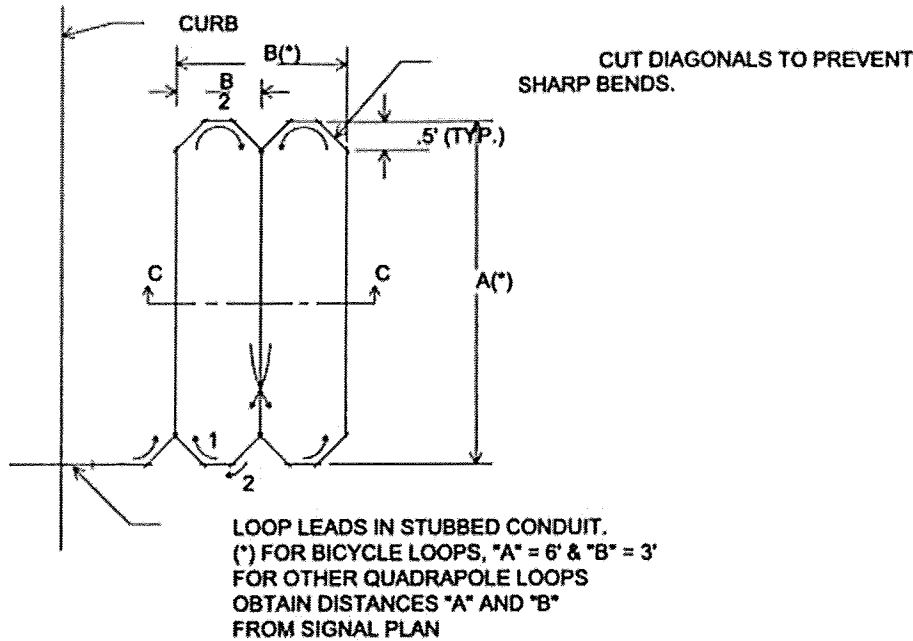
For loop detector wires installed in the base aggregate, contractor shall cut a trench into the compacted base aggregate prior to paving and wrap the loop detector wire in the trench leading back to the handhole behind the curb as shown in the plans. Secure the loop detector wire in the trench so that the paving process does not shift the cable.

For loop detector wires cut into the pavement, the contractor shall cut in a slot into the surface of the pavement or sidewalk (dimensions as shown on plans or outlined in MQ's). Chamfers no greater than 6-inches may be allowed to ease bending at corners. Slot dimensions are to be no wider than 0.25 Inches and to a depth no deeper than 2.25 inches from the surface of the pavement or sidewalk.

Detector slots shall be filled with flowable polyester sealant to be level with the pavement or sidewalk surface. Clean any excess sealant off the pavement or sidewalk.

At each handhole, each loop shall have 2-ft of 14-3 UF-B cable coiled in the handhole for slack.

*Bicycle detector detail:*



**METHOD OF MEASUREMENT**

The department will measure Furnish & Install Cut-In Loop Detectors by the Linear Foot, acceptably

completed, measured as the perimeter of the loop detector and distance from loop to the handhole plus an additional 2-ft of slack coiled in the handhole.

Conduit under the curb shall be considered ancillary to this item.

6-ft x 6-ft loops shall be	24 LF	+ distance to handhole +2-ft slack
6-ft x 10-ft loops shall be	32 LF	+ distance to handhole +2-ft slack
6-ft x 14-ft loops shall be	40 LF	+ distance to handhole +2-ft slack
6-ft x 3.5-ft bicycle loop shall be	31 LF	+ distance to handhole +2-ft slack
6-ft x 3-ft bicycle loop shall be	30 LF	+ distance to handhole +2-ft slack

If no details are provided in the plans, loop sizes and locations shall follow the description below:

6-ft x 6-ft loops shall be used for rear loops or exit loops.  
6-ft x 10-ft loops shall be used for stop bar loops  
6-ft x 14-ft loops *may* be used for stop bar loops  
6-ft x 3.5-ft bicycle loops shall be used at all bicycle loop locations  
6-ft x 3-ft bicycle loops are not used in this project

#### BASIS OF PAYMENT

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV90008	FURNISH & INSTALL LOOP DETECTOR WIRES	LF

Payment is full compensation for furnishing and installing all materials, and for furnishing all equipment and incidentals necessary to complete the work.

#### **BID ITEM 90008 - FURNISH AND INSTALL #10 TRAFFIC SIGNAL NEUTRAL #10 AWG WIRE:**

#### **DESCRIPTION**

This special provision describes furnishing and installing #10 conductors for grounding purposes from the traffic signal controller base to each traffic signal base with 6-ft of slack in the controller cabinet and 3-ft of slack at each base.

#### **MATERIALS**

Furnish solid copper conductor traffic signal cables conforming to IMSA Specification Number 20-1. Provide wire size and number of conductors as the plan show.

For wiring that extends from the terminal strip in each signal head to the mounting base, use an IMSA, 20-1 cable, 14 AWG 5, 7, 9 or 12 conductor as required.

#### **CONSTRUCTION**

Cable shall be installed in continuous lengths without splices from the traffic signal control cabinet to each base containing a traffic signal display. Splices of cables will be permitted only in handholes in poles, pole bases, or as otherwise provided in the plans.

#### **METHOD OF PAYMENT**

The department will measure Cable Traffic Signal wires by the linear foot, acceptably completed, measured from the traffic signal control cabinet to each base containing traffic signal heads.

#### **BASIS OF PAYMENT**

The department will pay for measured quantities at the contractor unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>
<u>UNIT</u>	
SPV90009	FURNISH & INSTALL #10 TRAFFIC SIGNAL NEUTRAL #10 AWG WIRE
LF	

Payment is full compensation for furnishing and installing all materials, and for furnishing all equipment and incidentals necessary to complete the work.

**BID ITEM 90031 – COVER BOX CASTING**

**DESCRIPTION**

This work shall include, but not be limited to, installation of a 1 inch thick plate over the existing opening in the 3'x7' box culvert in the location called out on the plans and schedule as RC-#.

The 1" plate must be 2' wider than the width raw opening in the top of the box with a minimum overlap of 1' on each side of the raw opening (field verify needed-roughly 62"). The length of the 1" plate must cover the entire outside width of the box culvert (field verify needed-roughly 9'). A 2'x2' grid of 1" holes, 6" on center in the middle of the 1" plate. This grid of 1" holes is to allow drainage into the box culvert.

For installation, the existing grate is to remain in place and the 1" plate is to be placed over top of the existing grate. The contractor is to mastic any part of the box culvert that that is to come in contact with the plate and while the mastic is still wet, install the plate. The plate must then be anchored down with ANKR-TITE concrete anchors by drilling holes through the 1" plate and into the roof of the box culvert in accordance with their specifications.

**METHOD OF MEASUREMENT**

Cover Box Casting shall be measured per each specific instance as identified in the field.

**BASIS OF PAYMENT**

Cover Box Casting shall be paid for at the contract unit price, which shall be full compensation for all material, and for all labor, tools, equipment and incidentals necessary to complete the work.

**BID ITEM 90032 – MASTIC INLET REPAIR**

**DESCRIPTION**

This work shall include, but not be limited to, installation of two (2) coats of mastic over any and all exposed metal rebar and/or mesh in the existing taps in the 3'x7' box culvert.

Possible locations of Mastic Inlet Repair are denoted in the schedule and as NOTE-2 on plans.

This contract includes two (2) additional undistributed Mastic Inlet Repairs to be performed at the direction of the Engineer.

**METHOD OF MEASUREMENT**

Mastic Inlet Repair shall be measured per each specific instance as identified in the field.

**BASIS OF PAYMENT**

Mastic Inlet Repair shall be paid for at the contract unit price, which shall be full compensation for all material, and for all labor, tools, equipment and incidentals necessary to complete the work.

**BID ITEM 90033 – RELOCATE WATER LATERAL SERVICE (UNDISTRUBUTED)**

**DESCRIPTION**

This work shall include, but not be limited to, installation of vertical offsets to go beneath the proposed sewer utilities, or horizontal offsets to go around the proposed sewer utilities. The lengths of pipe to be relocated shall be limited to the immediate crossing of the proposed sewer utilities. Any new piping shall appropriately match the existing size of the water services being offset. Prior to construction, all ULOs and any necessary redesigns 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.

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

This contract includes two (2) additional undistributed Relocate Water Lateral Service to be performed at the direction of the Engineer.

**METHOD OF MEASUREMENT**

Relocate Water Lateral Service shall be measured per each specific instance as identified in the field.

**BASIS OF PAYMENT**

Relocate Water Lateral Service 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 sub-base, 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 – RELOCATE WATER 6-INCH MAIN (UNDISTRIBUTED)**

**DESCRIPTION**

This work shall include, but not be limited to, installation of vertical offsets to go beneath the proposed sewer utilities, or horizontal offsets to go around the proposed sewer utilities. The lengths of pipe to be relocated shall be limited to the immediate crossing of the proposed sewer utilities. Install new joints, piping to match the existing water main size, valves and any other materials necessary 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.

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

This contract includes one (1) additional undistributed Relocate 6-Inch Water Main to be performed at the direction of the Engineer.

**METHOD OF MEASUREMENT**

Relocate 6-Inch Water Main shall be measured per each specific instance as identified in the field.

#### **BASIS OF PAYMENT**

Relocate 6-Inch 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 90035 – RELOCATE 12-INCH WATER MAIN (UNDISTRIBUTED)**

##### **DESCRIPTION**

This work shall include, but not be limited to, installation of vertical offsets to go beneath the proposed sewer utilities, or horizontal offsets to go around the proposed sewer utilities. The lengths of pipe to be relocated shall be limited to the immediate crossing of the proposed sewer utilities. Install new joints, piping to match the existing water main size, valves and any other materials necessary 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.

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

This contract includes two (2) additional undistributed Relocate 12-Inch Water Main to be performed at the direction of the Engineer.

##### **METHOD OF MEASUREMENT**

Relocate 12-Inch Water Main shall be measured per each specific instance as identified in the field.

##### **BASIS OF PAYMENT**

Relocate 12-Inch 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 90036 – WATER QUALITY TREATMENT SWALE**

##### **DESCRIPTION**

This work shall include, but not be limited to, installation of 320 linear feet of a treatment swale. The swale cross section shall have 3:1 side slopes, a 2 foot wide flat center section and be 1 foot deep as measured from the adjacent top of curb.

The swale shall be seeded with Shortgrass Prairie Seed Mix (Bid item 90006) and matted with WisDOT Class I Type B erosion mat with only natural fibers, which is considered incidental to this bid item.

##### **METHOD OF MEASUREMENT**

Water Quality Treatment Swale shall be measured per linear feet on the plan.

##### **BASIS OF PAYMENT**

Water Quality Treatment Swale shall be paid for at the contract unit price (lf), which shall be full compensation for preparation of surface, furnishing materials, fill, topsoil, acquisition and installation of erosion mat, and for all labor, tools, equipment and incidentals necessary to complete the work. Excavation and seeding are separate bid items.

**BID ITEM 90037 – WATER QUALITY TREATMENT SWALE FLUME**

**DESCRIPTION**

This work shall include, but not be limited to, installation of 10' hand formed curb, a 2' x 2' concrete flume and breaker run surrounding the flume and extending from the flume bottom to the bottom of the swale. They shall be constructed to the elevations detailed in the plans (sheet G-2), and have a 2" depression in the flow line of the curb to force the flow of water into the flume and treatment swale.

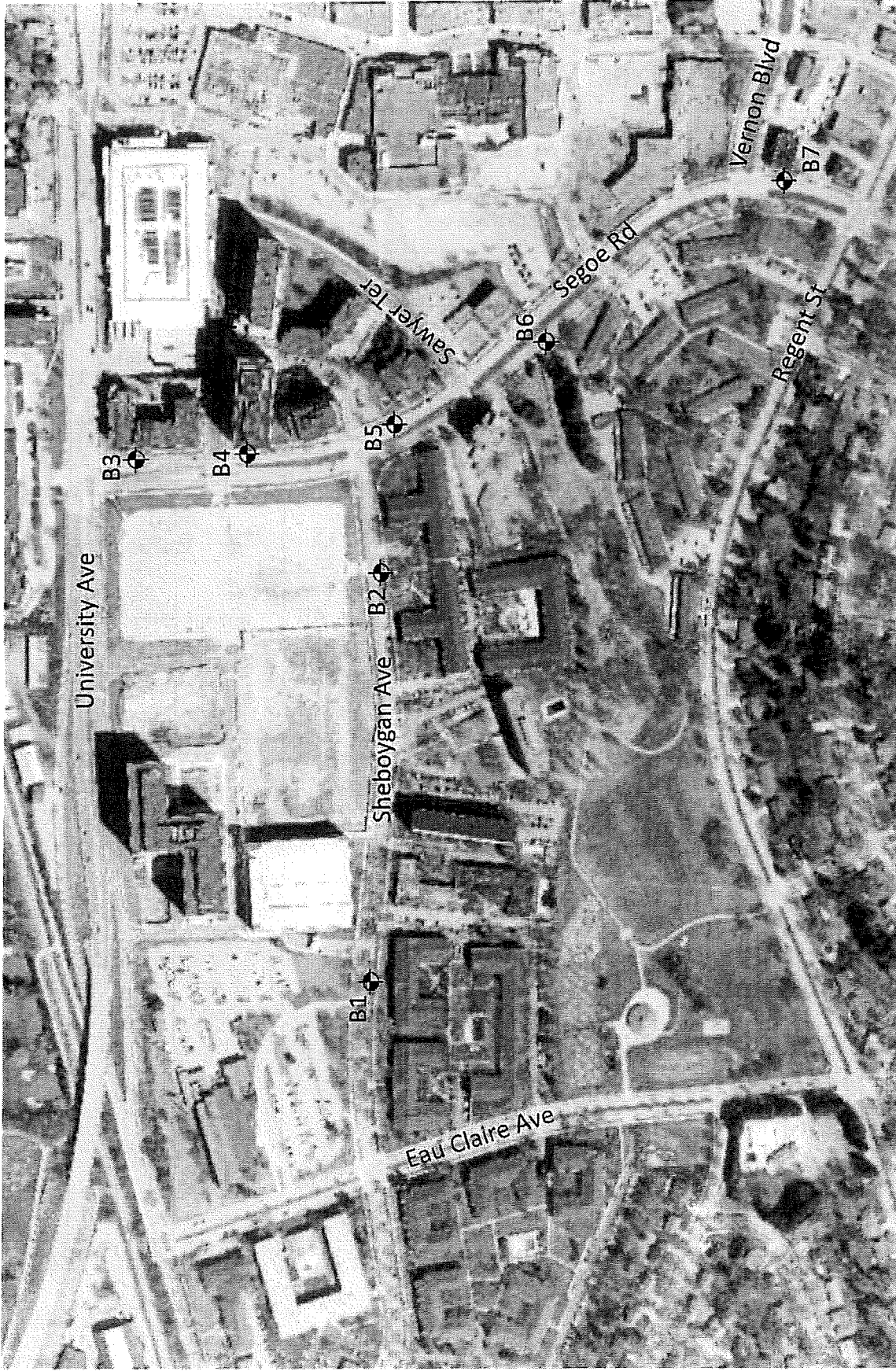
**METHOD OF MEASUREMENT**

Water Quality Treatment Swale Flume shall be measured as each 10' hand formed section and flume installed.

**BASIS OF PAYMENT**

Water Quality Treatment Swale Flume shall be paid for at the contract unit price, which shall be full compensation for all excavation, disposal of removed material, preparation of subgrade, furnishing materials, fill, and for all labor, tools, equipment and incidentals necessary to complete the work.





**Legend**



Denotes Boring Location

**Notes**

1. Soil Borings performed by America's Drilling Co. (B3-B7) in Sept. 2022 or Badger State Drilling (B1 & B2) in May 2017
2. Boring locations are approximate



Scale: Reduced

Date:

10/2022

Job No.

C22051-16



**Soil Boring Location Map**  
**Segoe Road and Sheboygan Avenue**  
**Madison, WI**



# LOG OF TEST BORING

Project Sheboygan Avenue  
535'E of Eau Claire, 15'S of Centerline  
 Location Madison, Wisconsin

Boring No. 1  
 Surface Elevation (ft) 945±  
 Job No. C22051-16  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LOI
					X X	6 in. Asphalt Pavement/7 in. Base Course				
1	10	M	12		/ / / /	Stiff, Brown Lean CLAY (CL)				
				5						
2	8	M	13		. . . .	Medium Dense to Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
				10						
3	16	M	15		. . . .					
				15						
4	18	M	13		. . . .					
				20						
5	4	M	44		. . . .					
				15		End of Boring at 15 ft				
						Borehole backfilled with bentonite chips and asphalt patch				

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> NW      Upon Completion of Drilling _____ Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>5/17/17</u> End <u>5/17/17</u> Driller <u>BSD</u> Chief <u>MC</u> Rig <u>CME-55</u> Logger <u>DB</u> Editor <u>ESF</u> Drill Method <u>2-1/4" HSA; Autohammer</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



## LOG OF TEST BORING

Project Sheboygan Avenue  
325'W of Segoe, 15'S of Centerline  
 Location Madison, Wisconsin

Boring No. 2  
 Surface Elevation (ft) 947±  
 Job No. C22051-16  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LOI
				5	X	5 in. Asphalt Pavement/6 in. Base Course				
1AS	0	M	9	9	■	FILL: Loose, Brown Fine to Medium Sand Mixed with Silt, Gravel and Clay				
2	10	M	8	8	■					
				5	-	Weathered to Competent, Light Tan, Orange and White Probable Sandstone BEDROCK				
3	6	M	21	21	●					
4	12	M	23	23	●					
				10	-	Firm Drilling Noted Beginning Near 12 ft				
5	8	M	68/12'	15	●					
				15	-	End of Boring at 15 ft  Borehole backfilled with bentonite chips and asphalt patch				
				20	-					

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW      Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 5/17/17 End 5/17/17  
 Driller BSD Chief MC Rig CME-55  
 Logger DB Editor ESF  
 Drill Method 2-1/4" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project Segoe Road  
 Location 200'S of University, 35'E of Centerline  
Madison, Wisconsin

Boring No. 3  
 Surface Elevation (ft) 939±  
 Job No. C22051-16  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					X	4 in. Asphalt Pavement/7 in. Base Course				
1		10	M	22		FILL: Medium Dense Brown Sand with Silt, Gravel and Scattered Cobbles				
2		16	M	19						
3		18	M	24						
4		8	M	58/9"		Very Dense/Rough Drilling Near 9 ft (Presumed Large Cobble or Boulder)				
5		16	M	37		Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
6		18	M	37						
					15	End of Boring at 15 ft				
						Borehole backfilled with bentonite chips and asphalt patch				
					20					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> NW      Upon Completion of Drilling _____ Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>9/26/22</u> End <u>9/26/22</u> Driller <u>ADC</u> Chief <u>KD</u> Rig <u>CME-55</u> Logger <u>DB</u> Editor <u>ESF</u> Drill Method <u>2-1/4" HSA; Autohammer</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



## LOG OF TEST BORING

Project Segoe Road  
90'S of Frey, 35'E of Centerline  
 Location Madison, Wisconsin

Boring No. 4  
 Surface Elevation (ft) 948±  
 Job No. C22051-16  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	EDGE Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LOI
					X	4 in. Asphalt Pavement/6 in. Base Course				
1	14	M	20		/	Very Stiff, Brown Lean CLAY, Trace Sand and Gravel (CL - Possible Fill)	(2.5)			
2	10	M	8		/	Loose, Brown Clayey Fine SAND (SC - Possible Fill)				
3	0	-	50/3"		/	Medium Dense to Very Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
4	14	M	12		/					
5	0	-	50/1"		/					
						End of Boring at 11.5 ft due to auger refusal on boulder or possible bedrock				
						Borehole backfilled with bentonite chips and asphalt patch				

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW      Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 9/27/22 End 9/27/22  
 Driller ADC Chief KD Rig CME-55  
 Logger DB Editor ESF  
 Drill Method 2-1/4" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project Segoe Road  
140' SE of Sheboygan, 40' NE of Centerline  
 Location Madison, Wisconsin

Boring No. 5  
 Surface Elevation (ft) 936±  
 Job No. C22051-16  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		q <sub>u</sub> (tsf)	W	LL	PL	LOI
					X	5 in. Asphalt Pavement/5.5 in. Base Course				
1	16	M	14		█	FILL: Medium Dense Brown Sand with Silt, Gravel and Scattered Cobbles				
2	14	M	18		█	Medium Dense to Very Dense, Light Brown Fine to Coarse SAND, Some Gravel, Trace to Little Silt (SP/SP-SM - Possible Fill)				
3	10	M	68/ 10"		█					
4	14	M	37		█	Dense to Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
5	16	M	26		█					
6	18	M	26		█					
					15	End of Boring at 15 ft				
						Borehole backfilled with bentonite chips and asphalt patch				
					20					

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW      Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 9/27/22 End 9/27/22  
 Driller ADC Chief KD Rig CME-55  
 Logger DB Editor ESF  
 Drill Method 2-1/4" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project Segoe Road  
435' SE of Sawyer, 35' SW of Centerline  
 Location Madison, Wisconsin

Boring No. 6  
 Surface Elevation (ft) 917±  
 Job No. C22051-16  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rac (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					5.5 in. Asphalt Pavement/7 in. Base Course					
1		8	M	4	FILL: Medium Stiff to Stiff Brown Clay with Sand and Gravel	(1.0)				
2		10	M	3	Medium Stiff, Brown Lean CLAY (CL - Possible Fill)	(0.75)				
3		12	M	26	Medium Dense, Red and Brown Fine to Coarse SAND and GRAVEL, Some Silt (SM/GM - Possible Fill)					
4		12	M	58/8"	Weathered to Competent, Reddish-Brown, White and Tan Sandstone Bedrock					
5		3	-	50/3"						
6		2	-	50/2"						
					End of Boring at 15 ft					
					Borehole backfilled with bentonite chips and asphalt patch					

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW      Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 9/26/22 End 9/26/22  
 Driller ADC Chief KD Rig CME-55  
 Logger DB Editor ESF  
 Drill Method 2-1/4" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project Segoe Road  
 Location 120'S of Vernon, 35'E of Centerline  
Madison, Wisconsin

Boring No. 7  
 Surface Elevation (ft) 902±  
 Job No. C22051-16  
 Sheet 1 of 1

2921 Ferry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		q <sub>u</sub> (qa) (tsf)	W	LL	PL	LOI
				0	X	6.5 in. Asphalt Pavement/5 in. Base Course				
1	8	M	4	4	Hatched	Stiff to Soft, Brown Lean CLAY (CL)  (Possible Fill to 2 ft)				
2	14	M	5	5	Hatched	(1.5)				
3	14	M	5	5	Hatched	Becoming Sandy Near 6 ft				
4	18	M	10	10	Dotted	(0.5)				
5	8	M	65/ 11"	10	Dotted	Loose to Medium Dense, Brown Fine to Medium SAND, Some Silt, Trace to Little Clay (SM)				
6	8	M	35	15	Dotted	Very Dense to Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
				15		End of Boring at 15 ft  Borehole backfilled with bentonite chips and asphalt patch				
				20						

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW      Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 9/27/22 End 9/27/22  
 Driller ADC Chief KD Rig CME-55  
 Logger DB Editor ESF  
 Drill Method 2-1/4" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



**CGC, Inc.**

**LOG OF TEST BORING**  
*General Notes*

**DESCRIPTIVE SOIL CLASSIFICATION**

Grain Size Terminology

Soil Fraction	Particle Size	U.S. Standard Sieve Size
Boulders .....	Larger than 12" .....	Larger than 12"
Cobbles .....	3" to 12" .....	3" to 12"
Gravel: Coarse.....	¾" to 3" .....	¾" to 3"
Fine .....	4.76 mm to ¾" .....	#4 to ¾"
Sand: Coarse.....	2.00 mm to 4.76 mm.....	#10 to #4
Medium .....	0.42 to mm to 2.00 mm .....	#40 to #10
Fine .....	0.074 mm to 0.42 mm.....	#200 to #40
Silt.....	0.005 mm to 0.074 mm.....	Smaller than #200
Clay.....	Smaller than 0.005 mm.....	Smaller than #200

Plasticity characteristics differentiate between silt and clay.

General Terminology

**Physical Characteristics**  
 Color, moisture, grain shape, fineness, etc.  
**Major Constituents**  
 Clay, silt, sand, gravel  
**Structure**  
 Laminated, varved, fibrous, stratified, cemented, fissured, etc.  
**Geologic Origin**  
 Glacial, alluvial, eolian, residual, etc.

Relative Density

**Term**      **"N" Value**  
 Very Loose..... 0 - 4  
 Loose..... 4 - 10  
 Medium Dense.....10 - 30  
 Dense.....30 - 50  
 Very Dense.....Over 50

Relative Proportions Of Cohesionless Soils

Proportional Term	Defining Range by Percentage of Weight
Trace.....	0% - 5%
Little.....	5% - 12%
Some.....	12% - 35%
And .....	35% - 50%

Consistency

Term	q <sub>u</sub> -tons/sq. ft
Very Soft.....	0.0 to 0.25
Soft.....	0.25 to 0.50
Medium.....	0.50 to 1.0
Stiff.....	1.0 to 2.0
Very Stiff.....	2.0 to 4.0
Hard.....	Over 4.0

Organic Content by Combustion Method

Soil Description	Loss on Ignition
Non Organic.....	Less than 4%
Organic Silt/Clay.....	4 - 12%
Sedimentary Peat.....	12% - 50%
Fibrous and Woody Peat...	More than 50%

Plasticity

Term	Plastic Index
None to Slight.....	0 - 4
Slight.....	5 - 7
Medium.....	8 - 22
High to Very High ..	Over 22

The penetration resistance, N, is the summation of the number of blows required to effect two successive 6" penetrations of the 2" split-barrel sampler. The sampler is driven with a 140 lb. weight falling 30" and is seated to a depth of 6" before commencing the standard penetration test.

**SYMBOLS**

Drilling and Sampling

- CS - Continuous Sampling
- RC - Rock Coring: Size AW, BW, NW, 2"W
- RQD - Rock Quality Designation
- RB - Rock Bit/Roller Bit
- FT - Fish Tail
- DC - Drove Casing
- C - Casing: Size 2 ½", NW, 4", HW
- CW - Clear Water
- DM - Drilling Mud
- HSA - Hollow Stem Auger
- FA - Flight Auger
- HA - Hand Auger
- COA - Clean-Out Auger
- SS - 2" Dia. Split-Barrel Sample
- 2ST - 2" Dia. Thin-Walled Tube Sample
- 3ST - 3" Dia. Thin-Walled Tube Sample
- PT - 3" Dia. Piston Tube Sample
- AS - Auger Sample
- WS - Wash Sample
- PTS - Peat Sample
- PS - Pitcher Sample
- NR - No Recovery
- S - Sounding
- PMT - Borehole Pressuremeter Test
- VS - Vane Shear Test
- WPT - Water Pressure Test

Laboratory Tests

- q<sub>a</sub> - Penetrometer Reading, tons/sq ft
- q<sub>a</sub> - Unconfined Strength, tons/sq ft
- W - Moisture Content, %
- LL - Liquid Limit, %
- PL - Plastic Limit, %
- SL - Shrinkage Limit, %
- LI - Loss on Ignition
- D - Dry Unit Weight, lbs/cu ft
- pH - Measure of Soil Alkalinity or Acidity
- FS - Free Swell, %

Water Level Measurement

- ▽ - Water Level at Time Shown
- NW - No Water Encountered
- WD - While Drilling
- BCR - Before Casing Removal
- ACR - After Casing Removal
- CW - Cave and Wet
- CM - Caved and Moist

Note: Water level measurements shown on the boring logs represent conditions at the time indicated and may not reflect static levels, especially in cohesive soils.

# CGC, Inc.

Madison - Milwaukee

# Unified Soil Classification System





## UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

### COARSE-GRAINED SOILS

(more than 50% of material is larger than No. 200 sieve size)





#### Clean Gravels (Less than 5% fines)

**GRAVELS**  
More than 50% of coarse fraction larger than No. 4 sieve size

	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
	GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
Gravels with fines (More than 12% fines)		
	GM	Silty gravels, gravel-sand-silt mixtures
	GC	Clayey gravels, gravel-sand-clay mixtures








#### Clean Sands (Less than 5% fines)

**SANDS**  
50% or more of coarse fraction smaller than No. 4 sieve size

	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly graded sands, gravelly sands, little or no fines
Sands with fines (More than 12% fines)		
	SM	Silty sands, sand-silt mixtures
	SC	Clayey sands, sand-clay mixtures

### FINE-GRAINED SOILS

(50% or more of material is smaller than No. 200 sieve size.)

<b>SILTS AND CLAYS</b> Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
<b>SILTS AND CLAYS</b> Liquid limit 50% or greater		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
<b>HIGHLY ORGANIC SOILS</b>		PT	Peat and other highly organic soils

## LABORATORY CLASSIFICATION CRITERIA

GW  $C_u = \frac{D_{60}}{D_{10}}$  greater than 4;  $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$  between 1 and 3

GP Not meeting all gradation requirements for GW

GM Atterberg limits below "A" line or P.I. less than 4  
 GC Atterberg limits above "A" line or P.I. greater than 7  
 Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols

SW  $C_u = \frac{D_{60}}{D_{10}}$  greater than 4;  $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$  between 1 and 3

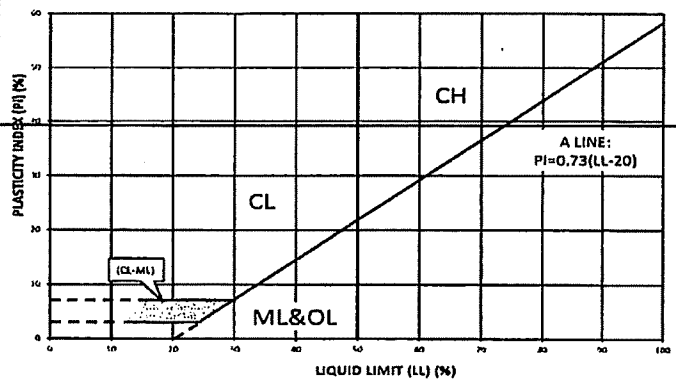
SP Not meeting all gradation requirements for GW

SM Atterberg limits below "A" line or P.I. less than 4  
 SC Atterberg limits above "A" line with P.I. greater than 7  
 Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

Less than 5 percent ..... GW, GP, SW, SP  
 More than 12 percent ..... GM, GC, SM, SC  
 5 to 12 percent ..... Borderline cases requiring dual symbols

### PLASTICITY CHART



**APPENDIX B**

**RECOMMENDED COMPACTED FILL SPECIFICATIONS**

## **APPENDIX B**

### **CGC, INC.**

## **RECOMMENDED COMPACTED FILL SPECIFICATIONS**

### **General Fill Materials**

Proposed fill shall contain no vegetation, roots, topsoil, peat, ash, wood or any other non-soil material which by decomposition might cause settlement. Also, fill shall never be placed while frozen or on frozen surfaces. Rock, stone or broken concrete greater than 6 in. in the largest dimension shall not be placed within 10 ft of the building area. Fill used greater than 10 ft beyond the building limits shall not contain rock, boulders or concrete pieces greater than a 2 sq ft area and shall not be placed within the final 2 ft of finish subgrade or in designated utility construction areas. Fill containing rock, boulders or concrete pieces should include sufficient finer material to fill voids among the larger fragments.

### **Special Fill Materials**

In certain cases, special fill materials may be required for specific purposes, such as stabilizing subgrades, backfilling undercut excavations or filling behind retaining walls. For reference, WisDOT gradation specifications for various types of granular fill are attached in Table 1.

### **Placement Method**

The approved fill shall be placed, spread and leveled in layers generally not exceeding 10 in. in thickness before compaction. The fill shall be placed at moisture content capable of achieving the desired compaction level. For clay soils or granular soils containing an appreciable amount of cohesive fines, moisture conditioning will likely be required.

It is the Contractor's responsibility to provide all necessary compaction equipment and other grading equipment that may be required to attain the specified compaction. Hand-guided vibratory or tamping compactors will be required whenever fill is placed adjacent to walls, footings, columns or in confined areas.

### **Compaction Specifications**

Maximum dry density and optimum moisture content of the fill soil shall be determined in accordance with modified Proctor methods (ASTM D1557). The recommended field compaction as a percentage of the maximum dry density is shown in Table 2. Note that these compaction guidelines would generally not apply to coarse gravel/stone fill. Instead, a method specification would apply (e.g., compact in thin lifts with a vibratory compactor until no further consolidation is evident).

### **Testing Procedures**

Representative samples of proposed fill shall be submitted to CGC, Inc. for optimum moisture-maximum density determination (ASTM D1557) prior to the start of fill placement. The sample size should be approximately 50 lb.

CGC, Inc. shall be retained to perform field density tests to determine the level of compaction being achieved in the fill. The tests shall generally be conducted on each lift at the beginning of fill placement and at a frequency mutually agreed upon by the project team for the remainder of the project.

**Table 1**  
**Gradation of Special Fill Materials**

Material	WisDOT Section 311	WisDOT Section 312	WisDOT Section 305			WisDOT Section 209		WisDOT Section 210
	Breaker Run	Select Crushed Material	3-in. Dense Graded Base	1 1/4-in. Dense Graded Base	3/4-in. Dense Graded Base	Grade 1 Granular Backfill	Grade 2 Granular Backfill	Structure Backfill
Sieve Size	Percent Passing by Weight							
6 in.	100							
5 in.		90-100						
3 in.			90-100					100
1 1/2 in.		20-50	60-85					
1 1/4 in.				95-100				
1 in.					100			
3/4 in.			40-65	70-93	95-100			
3/8 in.				42-80	50-90			
No. 4			15-40	25-63	35-70	100 (2)	100 (2)	25-100
No. 10		0-10	10-30	16-48	15-55			
No. 40			5-20	8-28	10-35	75 (2)		
No. 100						15 (2)	30 (2)	
No. 200			2-12	2-12	5-15	8 (2)	15 (2)	15 (2)

**Notes:**

- Reference: Wisconsin Department of Transportation *Standard Specifications for Highway and Structure Construction*.
- Percentage applies to the material passing the No. 4 sieve, not the entire sample.
- Per WisDOT specifications, both breaker run and select crushed material can include concrete that is 'substantially free of steel, building materials and other deleterious material'.

**Table 2**  
**Compaction Guidelines**

Area	Percent Compaction (1)	
	Clay/Silt	Sand/Gravel
<b><u>Within 10 ft of building lines</u></b>		
Footing bearing soils	93 - 95	95
Under floors, steps and walks		
- Lightly loaded floor slab	90	90
- Heavily loaded floor slab and thicker fill zones	92	95
<b><u>Beyond 10 ft of building lines</u></b>		
Under walks and pavements		
- Less than 2 ft below subgrade	92	95
- Greater than 2 ft below subgrade	90	90
Landscaping	85	90

**Notes:**

- Based on Modified Proctor Dry Density (ASTM D 1557)

**APPENDIX C**

**ROCK EXCAVATION CONSIDERATIONS**

## APPENDIX C

### ROCK EXCAVATION CONSIDERATIONS

In order to minimize probable "rock" excavation expenses during construction, we suggest that project specifications incorporate the following:

- A. It is assumed that all excavations to levels and dimensions required by the Contract Documents are earth excavation. Earth excavation includes removal and disposal of all materials encountered except rock/sound bedrock which is defined as natural materials which:
  - 1. Cannot be excavated with a minimum 3/4 cubic yard capacity backhoe without drilling and blasting;
  - 2. Cannot be economically removed with a one-tooth ripper on a D8 cat (or equivalent);
  - 3. Requires the use of special equipment such as a pneumatic hammer;
  - 4. Requires the use of explosives (after obtaining written permission of the owner).
- B. Examples of material classified as rock are boulders 1/2 cubic yard or more in volume, bedrock, rock in ledges, and rock-hard cementitious aggregate deposits.
- C. Do not proceed with rock excavation work until architect, engineer and/or testing firm (i.e., CGC) has taken the necessary measures to determine quantity of rock excavation required to complete the work. Measurements will be taken after properly stripped of earth by the contractor. Contractor will be paid the difference between the cost of rock and earth excavation based on an agreed upon unit price established prior to starting rock excavation.

A statement should also be included in the specifications to the effect that: "Stated models of earth excavation equipment are merely for purposes of defining the various excavation categories and are not intended to indicate the brand or type of equipment that is to be used."

**APPENDIX D**  
**DOCUMENT QUALIFICATIONS**



## APPENDIX D

### DOCUMENT QUALIFICATIONS

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#### I. GENERAL RECOMMENDATIONS/LIMITATIONS

---

CGC, Inc. should be provided the opportunity for a general review of the final design and specifications to confirm that earthwork and foundation requirements have been properly interpreted in the design and specifications. CGC should be retained to provide soil engineering services during excavation and subgrade preparation. This will allow us to observe that construction proceeds in compliance with the design concepts, specifications and recommendations, and also will allow design changes to be made in the event that subsurface conditions differ from those anticipated prior to the start of construction. CGC does not assume responsibility for compliance with the recommendations in this report unless we are retained to provide construction testing and observation services.

This report has been prepared in accordance with generally accepted soil and foundation engineering practices and no other warranties are expressed or implied. The opinions and recommendations submitted in this report are based on interpretation of the subsurface information revealed by the test borings indicated on the location plan. The report does not reflect potential variations in subsurface conditions between or beyond these borings. Therefore, variations in soil conditions can be expected between the boring locations and fluctuations of groundwater levels may occur with time. The nature and extent of the variations may not become evident until construction.

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#### II. IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL ENGINEERING REPORT

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Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes. While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. *No one except you* should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one - not even you* - should apply the report for any purpose or project except the one originally contemplated.

##### READ THE FULL REPORT

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

##### A GEOTECHNICAL ENGINEERING REPORT IS BASED ON A UNIQUE SET OF PROJECT-SPECIFIC FACTORS

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, *do not rely on a geotechnical engineering report* that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes - even minor ones - and request an assessment of their impact. *CGC cannot accept responsibility or liability for problems that occur because our reports do not consider developments of which we were not informed.*

##### SUBSURFACE CONDITIONS CAN CHANGE

A geotechnical engineering report is based on conditions that existed at the time the geotechnical engineer performed the study. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

##### MOST GEOTECHNICAL FINDINGS ARE PROFESSIONAL OPINION

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgement to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ - sometimes significantly - from those indicated in your report. Retaining the geotechnical engineer who

developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

#### **A REPORT'S RECOMMENDATIONS ARE NOT FINAL**

Do not over-rely on the confirmation-dependent recommendations included in your report. *Those confirmation-dependent recommendations are not final*, because geotechnical engineers develop them principally from judgement and opinion. Geotechnical engineers can finalize their recommendations *only* by observing actual subsurface conditions revealed during construction. *CGC cannot assume responsibility or liability for the report's confirmation-dependent recommendations if we do not perform the geotechnical-construction observation required to confirm the recommendations' applicability.*

#### **A GEOTECHNICAL ENGINEERING REPORT IS SUBJECT TO MISINTERPRETATION**

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Constructors can also misinterpret a geotechnical engineering report. Confront that risk by having CGC participate in prebid and preconstruction conferences, and by providing geotechnical construction observation.

#### **DO NOT REDRAW THE ENGINEER'S LOGS**

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

#### **GIVE CONSTRUCTORS A COMPLETE REPORT AND GUIDANCE**

Some owners and design professionals mistakenly believe they can make constructors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give constructors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise constructors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure constructors have sufficient time to perform additional study.* Only then might you be in a position to give constructors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

#### **READ RESPONSIBILITY PROVISIONS CLOSELY**

Some clients, design professionals, and constructors do not recognize that geotechnical engineering is far less exact than other engineering

disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineer's responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

#### **ENVIRONMENTAL CONCERNS ARE NOT COVERED**

The equipment, techniques, and personnel used to perform an *environmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

#### **OBTAIN PROFESSIONAL ASSISTANCE TO DEAL WITH MOLD**

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, many mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; *none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention.* *Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.*

#### **RELY ON YOUR GEOTECHNICAL ENGINEER FOR ADDITIONAL ASSISTANCE**

Membership in the Geotechnical Business Council (GBC) of Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk confrontation techniques that can be of genuine benefit for everyone involved with a construction project. Confer with CGC, a member of GBC, for more information.

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Geotechnical Business Council  
of the Geoprofessional Business Association  
8811 Colesville Road, Suite G 106  
Silver Spring, MD 20910

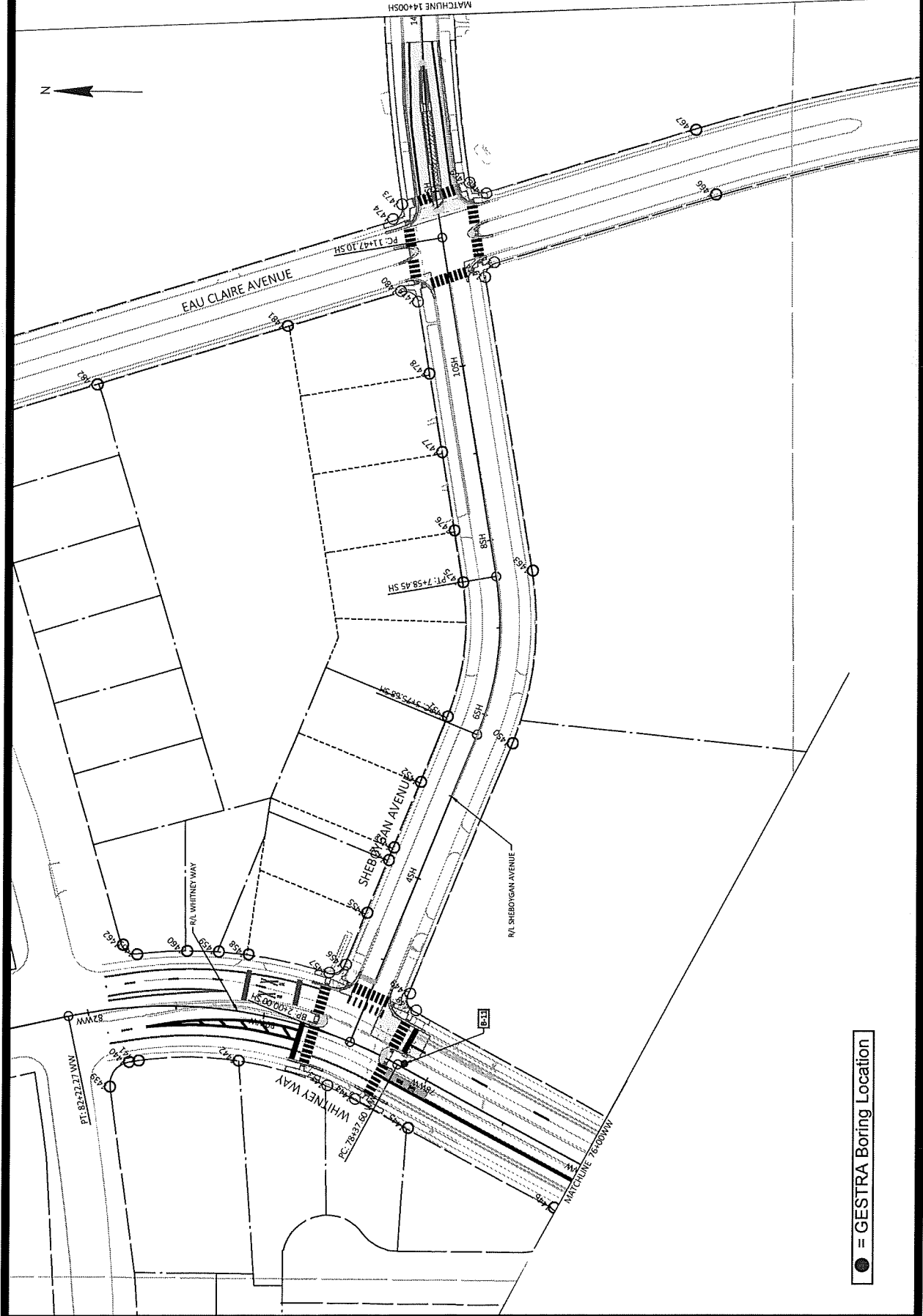
60631225P  
M17-W



CITY OF MADISON  
BUS RAPID TRANSIT  
GEOTECHNICAL BORINGS

CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

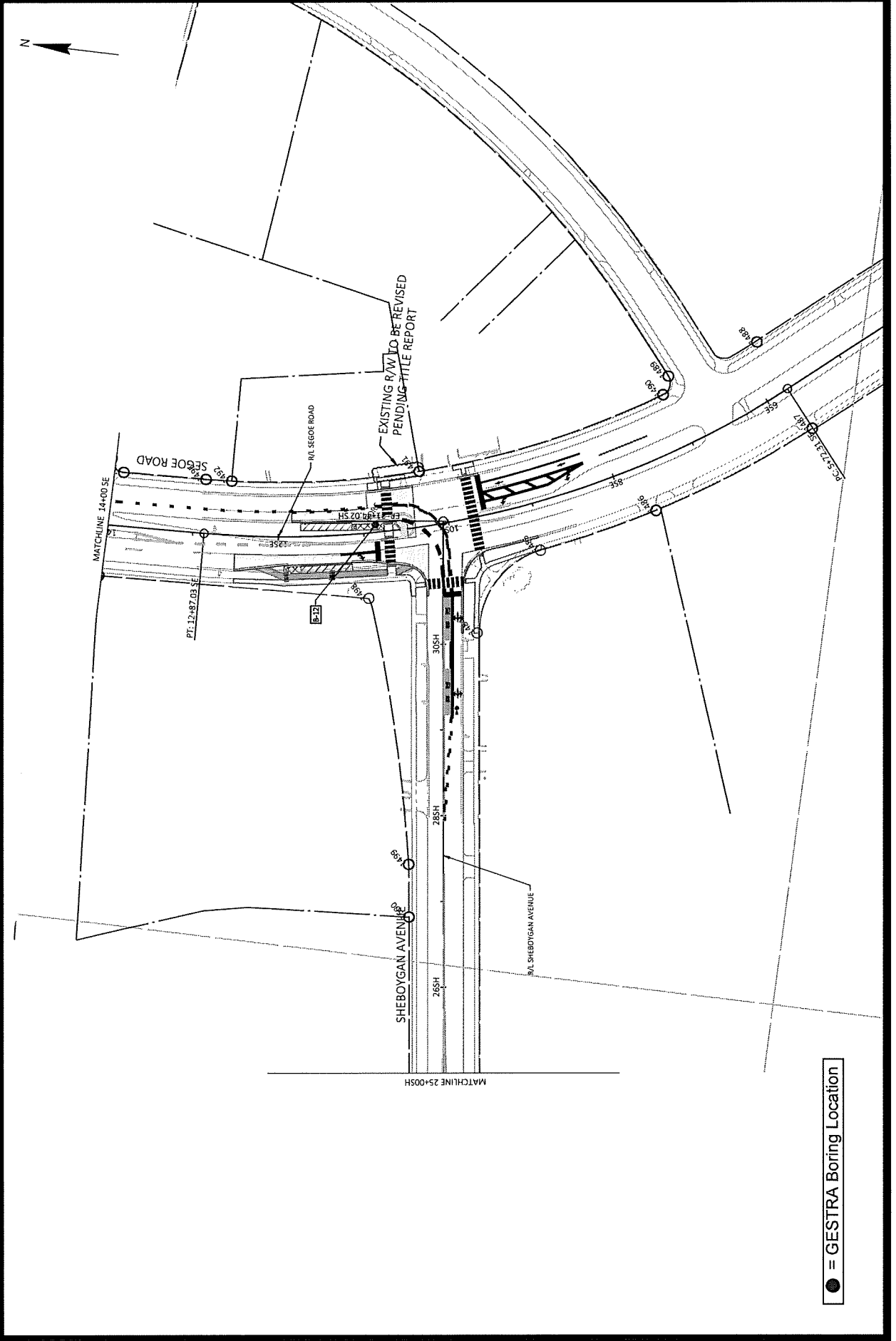
Drawn By: T. BRYAN	Scale: 1"=100 FT
Checked By: J. REBERSON	Date: 07/11/2017
Project No: 60631225P	



● = GEGRA Boring Location



DATE	BY	REVISION



● = GESTRA Boring Location



GESTRA Engineering Inc.  
2223 Industrial Drive  
Monona, WI 53713  
Phone: 608-222-9406, Fax: 608-222-9408

# SOIL BORING LOG

PAGE NUMBER  
1 of 1

PROJECT NAME Madison E-W BRT	DATE DRILLING STARTED 2/2/2022	BORING NUMBER B-11
PROJECT LOCATION Madison, WI	DATE DRILLING ENDED 2/2/2022	PROJECT NUMBER M21068-10
BORING DRILLED BY FIRM: GESTRA CREW CHIEF: D. Harris	FIELD LOG J. Metzinger	NORTHING 482217
	LAB LOG / QC J. Metzinger/D. Dettmers	EASTING 798864
		DRILLING RIG CME 75 (International)
		DRILLING METHOD 3/4" HSA
		SURFACE ELEVATION 941.8 ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q <sub>u</sub> or C <sub>u</sub> ) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	22	9 10 10 10	20		940.0	TOPSOIL (6-inches) 0.5 (941.3) LEAN CLAY WITH SAND, brown and dark brown, moist, trace gravel, trace organics, (FILL) Trace asphalt pieces in sample SS-2							15.7	Estimated frost depth not recorded
	11	5 5 5	10			LEAN CLAY, brown, moist, very stiff to hard, trace sand	CL			4.25			21	
SS - 3	16	3 4 6	10	5		With silt lenses in sample SS-3	CL			2.75			22.7	Sample SS-4 disturbed; Unable to obtain Q <sub>p</sub>
					935.0	6.4 (935.4) SANDY SILTY CLAY, brown, moist, very stiff, trace gravel With 2-inch very moist layer at 7.3 feet	CL-ML				16	4	11.2	
SS - 4	15	2 7 10	17			SILTY SAND, light brown, moist, medium dense 8 (933.8) SILT WITH SAND, brown, moist, medium dense, trace gravel	SM						9.4	
SS - 5	17	3 13 16	29	10		11.4 (930.4) SILTY CLAY, brown, moist, very stiff With 1-inch silty sand layer at 12.2 feet With 2-inch gravel layer at 12.2 feet	CL-ML			3.00			9	
SS - 6	21	3 8 16	24			14.1 (927.7) SILT WITH SAND AND GRAVEL, light brown to brown, moist, medium dense	ML							
SS - 7	10	9 8 13	21	15		16 (925.8) End of Boring at 16.0 ft.								
					925.0									
					20									
					920.0									
					25									
					915.0									

## WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/> WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/> CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/> WATER LEVEL AT COMPLETION: NMR	<input type="checkbox"/> CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/> WATER LEVEL AFTER 0 HOURS: NMR		WET <input type="checkbox"/>
		DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.



GESTRA Engineering Inc.  
2223 Industrial Drive  
Monona, WI 53713  
Phone: 608-222-9408, Fax: 608-222-9408

# SOIL BORING LOG

PAGE NUMBER

1 of 1

PROJECT NAME  
Madison E-W BRT  
PROJECT LOCATION  
Madison, WI

DATE DRILLING STARTED  
2/2/2022  
DATE DRILLING ENDED  
2/2/2022

BORING NUMBER  
B-12  
PROJECT NUMBER  
M21068-10  
DRILLING RIG  
CME 75 (International)

BORING DRILLED BY  
FIRM: GESTRA  
CREW CHIEF: D. Harris

FIELD LOG  
J. Metzinger  
LAB LOG / QC  
J. Metzinger/D. Dettmers

NORTHING  
482309  
EASTING  
801772

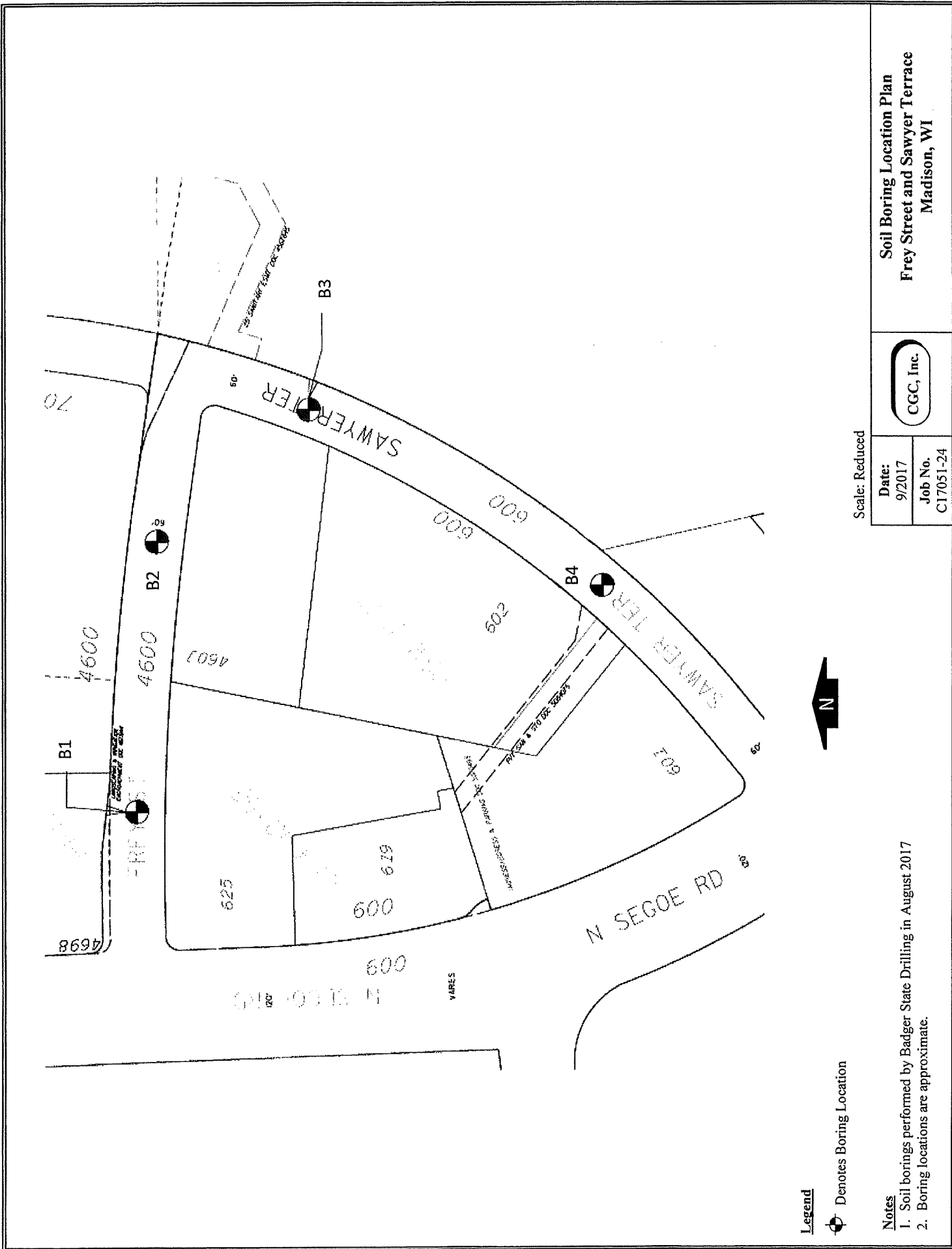
DRILLING METHOD  
3 1/2" HSA  
SURFACE ELEVATION  
942.4 ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (C <sub>u</sub> or C <sub>p</sub> ) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	21	9 12 17 23	29		TOPSOIL (4-inches) 0.4 (942)								Estimated frost depth = 7 inches
				940.0	SILTY SAND, light brown to brown, moist, (FILL) 2.2 (940.2)								
SS - 2	18	4 6 4	10		CLAYEY SAND, brown, moist, with clay pieces (FILL) 4.4 (938)								
				935.0	LEAN CLAY, brown, moist, very stiff 6.3 (936.1)	CL			2.50			24	
SS - 3	15	3 5 3	8		SANDY LEAN CLAY, brown, moist, medium stiff 9.3 (933.1)	CL			0.50			20.9	
SS - 4	8	2 1 2	3		SILTY SAND, brown, moist, loose, trace gravel 9.3 (933.1)							20.3	
SH - 5	23			10									
SS - 6	15	2 3 5	8	930.0	Yellowish brown color at 12.8 feet	SM							
SS - 7	17	10 29 12	41	15	GRAVEL WITH SAND, dark gray, moist, dense 15.5 (926.9)	GP							
SS - 8	0	50/4"	R	20	Fine white powder in tip of split spoon of sample SS-8 19.8 (922.6) End of Boring at 19.8 ft.								Possible bedrock at 19.5 feet
				25									

### WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/> WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/> CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/> WATER LEVEL AT COMPLETION: NMR	<input checked="" type="checkbox"/> CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/> WATER LEVEL AFTER 0 HOURS: NMR		WET <input type="checkbox"/>
		DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



**Legend**

☉ Denotes Boring Location

**Notes**

1. Soil borings performed by Badger State Drilling in August 2017
2. Boring locations are approximate.

Scale: Reduced

<b>Date:</b> 9/2017	<b>CGC, Inc.</b>
<b>Job No.:</b> C17051-24	

**Soil Boring Location Plan**  
**Frey Street and Sawyer Terrace**  
**Madison, WI**



## LOG OF TEST BORING

Project Frey Street and Sawyer Terrace  
Frey: 110'E of Segoe, 5'N of CL  
 Location Madison, WI

Boring No. 1  
 Surface Elevation (ft) 947±  
 Job No. C17051-24  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	q <sub>u</sub> (qa) (tsf)	W	LL	PL
					5.5 in. Asphalt Pavement/9 in. Base Course					
1		14	M	23	Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)					
2		7	M	78/8"	Apparent Weathered to Competent Dolomitic Limestone Bedrock					
					End of Boring at 5.5 ft due to Auger Refusal on Apparent Competent Bedrock or Possible Boulder  Backfilled with Soil Cuttings and Asphalt Patch  (N 43° 04.442', W 89° 27.385')					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> <u>NW</u> Upon Completion of Drilling _____ Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>8/24/17</u> End <u>8/22/17</u> Driller <u>BSD</u> Chief <u>KD</u> Rig <u>CME-55</u> Logger <u>DB/MG</u> Editor <u>ESF</u> Drill Method <u>2.25" HSA; Autohammer</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	





## LOG OF TEST BORING

Project Frey Street and Sawyer Terrace  
Frey: 150'W of Sawyer, 5'N of CL  
 Location Madison, WI

Boring No. 2  
 Surface Elevation (ft) 915±  
 Job No. C17051-24  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					5	5 in. Asphalt Pavement/8 in. Base Course				
1		14	M	24	5	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
2		16	M	29	5					
3A 3B		18	M	34	5	Tan to White Weathered to Competent SANDSTONE BEDROCK				
4		18	M	36	10					
5		15	M	29	15	End of Boring at 15 ft  Backfilled with bentonite chips and asphalt patch  (N 43° 04.449', W 89° 27.290')				
					15					
					20					

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 8/24/17 End 8/22/17  
 Driller BSD Chief KD Rig CME-55  
 Logger DB/MG Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



## LOG OF TEST BORING

Project Frey Street and Sawyer Terrace  
 Sawyer: 300'SW of Frey 8'SE of CL  
 Location Madison, WI

Boring No. 3  
 Surface Elevation (ft) 919±  
 Job No. C17051-24  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL	LI
					5	X	5 in. Asphalt Pavement/8 in. Base Course				
1	█	4	M	20	5	█	Medium Dense to Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM) (Possible Fill to 3ft)				
2	█	18	M	15	5	█					
3	█	12	M	32	5	█					
4	█	16	M	24	10	█					
5	█	18	M	32	15	█					
					15	█	End of Boring at 15 ft  Backfilled with bentonite chips and asphalt patch  (N 43° 04.405', W 89° 27.279')				
					20	█					

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 8/24/17 End 8/22/17  
 Driller BSD Chief KD Rig CME-55  
 Logger DB/MG Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



## LOG OF TEST BORING

Project Frey Street and Sawyer Terrace  
Sawyer, 150'NE of Segoe, 10'E of CL  
 Location Madison, WI

Boring No. 4  
 Surface Elevation (ft) 926±  
 Job No. C17051-24  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
				0	4.5 in. Asphalt Pavement/4 in. Base Course					
1	14	M	17	17	FILL: Medium Dense, Brown to Dark Brown Sand with Some Silt, Gravel and Clay, Occasional Cobbles					
2	0	M	21	21						
3	16	M	16	16	Medium Dense to Very Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)					
4	18	M	38	38						
5	12	M	85	85						
				15	End of Boring at 15 ft  Backfilled with bentonite chips and asphalt patch  (N 43° 04.346', W 89° 27.337')					

### WATER LEVEL OBSERVATIONS

While Drilling  NW Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

### GENERAL NOTES

Start 8/24/17 End 8/22/17  
 Driller BSD Chief KD Rig CME-55  
 Logger DB/MG Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.





Department of Public Works  
**Engineering Division**  
 James M. Wolfe, 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](mailto:engineering@cityofmadison.com)  
[www.cityofmadison.com/engineering](http://www.cityofmadison.com/engineering)

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 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.  
 Andrew J. Zwiag, P.E.

**Financial Manager**  
 Steven B. Danner-Rivers

December 13, 2023

**NOTICE OF ADDENDUM  
 ADDENDUM 1 (2)  
 CONTRACT NO. 8693  
 SHEBOYGAN AVENUE AND SEGOE ROAD ASSESSMENT DISTRICT – 2024**

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

**PROPOSAL:**

Items have been revised in the proposal. Bid item 90010 should be 90009. See Bid Express.

Action	Bid Item	Description
CORRECT	90009	LANE "YIELD TO PEDS" & YIELD LINE

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,

James M. Wolfe, P.E., City Engineer





Department of Public Works  
**Engineering Division**  
James M. Wolfe, P.E., City Engineer

City-County Building, Room 115  
210 Martin Luther King, Jr. Boulevard  
Madison, Wisconsin 53703  
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Janet Schmidt, P.E.

**Principal Engineer 1**  
Mark D. Moder, P.E.  
Andrew J. Zwieg, P.E.

**Financial Manager**  
Steven B. Danner-Rivers

December 12, 2023

**NOTICE OF ADDENDUM  
ADDENDUM 1  
CONTRACT NO. 8693  
SHEBOYGAN AVENUE AND SEGOE ROAD ASSESSMENT DISTRICT – 2024**

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

**SPECIAL PROVISIONS:**

REMOVE AND REPLACE THE SECOND PARAGRAPH UNDER HEADING COORDINATION WITH UTILITIES IN SECTION 105.12 COOPERATION BY THE CONTRACTOR WITH THE FOLLOWING:

City of Madison Traffic Engineering have underground lighting conduit (Sheboygan Avenue), fiber duct (Segoe Road Median), and fiber lines (Intersection of Segoe Road @ Regent Street) within the project limits that may be in conflict and need to be relocated. The Contractor shall contact the following to resolve any potential conflicts:

Lighting Conduit: Chad Veinot, [cveinot@cityofmadison.com](mailto:cveinot@cityofmadison.com)

Fiber Duct: Taletha Skar, [tskar@cityofmadison.com](mailto:tskar@cityofmadison.com)

TE fiber: Jerry Schippa, [jschippa@cityofmadison.com](mailto:jschippa@cityofmadison.com)

REMOVE AND REPLACE THE MCI PARAGRAPH UNDER HEADING COORDINATION WITH UTILITIES IN SECTION 105.12 COOPERATION BY THE CONTRACTOR WITH THE FOLLOWING:

MCI has underground fiber lines within the project limits that may be in conflict and need to be relocated. MCI crosses a proposed storm (approx. 1.5' clearance) and water line (approx. 3' clearance) at the intersection of Sheboygan Avenue and Segoe Road. The Contractor shall contact Randy Cicatello, [randy.cicatello@verizon.com](mailto:randy.cicatello@verizon.com) to resolve potential conflicts.

REMOVE AND REPLACE THE CHARTER COMMUNICATIONS PARAGRAPH UNDER HEADING COORDINATION WITH UTILITIES IN SECTION 105.12 COOPERATION BY THE CONTRACTOR WITH THE FOLLOWING:

Charter Communications has underground lines within the project limits that may be in conflict and need to be relocated. Charter has facilities crossing a new storm sewer on Sheboygan Avenue at STA 29+40. The Contractor shall perform a ULO at this location to identify conflicts. The Contractor shall contact Sean Potter, [Sean.Potter@charter.com](mailto:Sean.Potter@charter.com) to resolve potential conflicts.

REMOVE AND REPLACE THE MG&E GAS PARAGRAPH UNDER HEADING COORDINATION WITH UTILITIES IN SECTION 105.12 COOPERATION BY THE CONTRACTOR WITH THE FOLLOWING:

MG&E has gas facilities within the project limits that may be in conflict and need to be relocated. MG&E shall be completing windows at the following locations as needed: STA 14+40 (proposed storm sewer crossing main), STA 19+20 (proposed storm sewer crossing gas main, and proposed storm structure intersects with gas lateral), STA 21+00 (proposed storm structures intersect with gas main), STA 113+10 (proposed storm sewer crossing gas main), and STA 122+25 (proposed storm sewer crossing gas main). The Contractor shall perform ULOs at the aforementioned locations to identify conflicts. The Contractor shall contact Roger Ahles, [rahles@mge.com](mailto:rahles@mge.com) to resolve potential conflicts.

REMOVE AND REPLACE THE ELECTRIC GAS PARAGRAPH UNDER HEADING COORDINATION WITH UTILITIES IN SECTION 105.12 COOPERATION BY THE CONTRACTOR WITH THE FOLLOWING:

MG&E electric has overhead lines and underground electric facilities within the project limits that may be in conflict and need to be relocated. The underground facilities are located from Frey St to University Avenue, and crossing Segoe at Sawyer Terrace. These facilities at STA 120+00 cross proposed storm and water mains. Contractor will perform ULO's at this location and as necessary to identify conflicts. No MG&E overhead poles need be disturbed in this project. The Contractor shall contact Tony Sanfratello, [asanfratello@mge.com](mailto:asanfratello@mge.com) to coordinate any relocation work.

REMOVE AND REPLACE THE SEGOE REGENT TRAFFIC CONTROL PARAGRAPH (4<sup>TH</sup> FROM TOP) IN SECTION 107.7 MAINTENANCE OF TRAFFIC WITH THE FOLLOWING:

When the sanitary sewer is installed in the Segoe Avenue/Regent Street intersection, the Contractor may partly close the intersection for a maximum of 5 calendar days. Contractor shall always allow right turns from Northbound Segoe onto Eastbound Regent St and always allow left turns and right turns onto Segoe Rd as shown in attached Traffic Control plan. Eastbound Regent shall turn right onto Southbound Segoe. Contractor shall place suitable signing and temporary traffic control where necessary and install a temporary stop sign and stop bar at the Waukesha Street/Segoe Road intersection to help guide traffic safely. For more information, please see traffic control plans. Please place message boards 10 days prior to traffic changes and notify traffic engineering and metro at [metronotice@cityofmadison.com](mailto:metronotice@cityofmadison.com) at least 10 days in advanced of traffic and route changes.

ADD THE FOLLOWING BID ITEM SPECIFICATION AFTER BID ITEM 90008:

**BID ITEM 90009 – LANE “YIELD TO PEDS” & YIELD LINE;**

**DESCRIPTION:**

This item includes all materials, equipment, labor, and incidentals necessary to install the Lane “Yield to Peds” & Yield line pavement marking. All aspects of Wisconsin Department of Transportation 2023 standard specifications Part 6 Section 646 shall apply, including description, epoxy material, construction, measurement and payment. Stencil will be provided by City of Madison Traffic Engineering.

**METHOD OF MEASUREMENT:**

The Lane “Yield to Peds” & Yield line shall be measured per each specific instance as identified in the field.

**BASIS OF PAYMENT:**

The Lane “Yield to Peds” & Yield line shall be paid for at the contract unit price, which shall be full compensation for all material, equipment, labor, and incidentals necessary to complete the work.



**PROPOSAL:**

Items have been revised in the proposal. See Bid Express.

Action	Bid Item	Description
REVISE	20101	EXCAVATION CUT
REVISE	20323	REMOVE CONCRETE SIDEWALK & DRIVE
REVISE	30301	5-INCH CONCRETE SIDEWALK
REVISE	30302	7-INCH CONCRETE SIDEWALK AND DRIVE
REMOVE	40202	HMA PAVEMENT 4 LT 58-28 S
ADD	40203	HMA PAVEMENT 3 MT 58-28 S
ADD	40205	HMA PAVEMENT 4 MT 58-28 S
REVISE	90006	SIDEWALK CURB
REVISE	60894	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, BIKE LANE GREEN - S.F
ADD	60940	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4- INCH
ADD	60941	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, DOUBLE LINE, 4-INCH
ADD	60975	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, LINE, 24-INCH
ADD	70052	FURNISH AND INSTALL 2 INCH SERVICE LATERALS
REVISE	70058	RECONNECT 2-INCH SERVICE LATERAL
ADD	90009	LANE "YIELD TO PEDS" & YIELD LINE

**PLANS:**

Title Sheet: Updated *Index of Sheets* with new traffic control sheets. Corrected excavation cut quantities.

All P-Sheets except P-3: New sidewalk replacements to encompass planned sidewalk replacement program repairs.

P-6: Bus Pad and Shelter removal.

P-7C: New Bus Pad + Bus shelter pad SE side of Segoe/Regent intersection and mountable center median note.

P-8B: Bump-out geometric change to match opposite side of Heather Crest.

P-8C: Mountable center median note.

P-9C: Mountable center median note.

P-10A: Mountable center median note.

P-10B: New floating bus stop on east side of Segoe and mountable center median note.

P-11: New bus pad on west side of Segoe.

U-8: Visual changes to reflect geometry changes.

W-1: Changed the water main layout at the intersection of Vernon Boulevard and N Segoe Road so that the water main crossed the storm box perpendicularly. This also added 2-8" fittings. The profile was also updated.

W-2: Replaced WN2 with WN9 at STA 110+84

W-6: Changed the water main layout at the intersection of Vernon Boulevard and N Segoe Road so that the water main crossed the storm box perpendicularly. This also added 2-8" fittings. The profile was also updated

W-8: Visual changes due to layout changes.

W-9: Visual changes due to layout changes.

W-12: Remove one "reconnect 2-in service" and added one "furnish and install 2-in service."

M-8, M-10: New markings for floating bus stop.

TC-1, TC-2: New Traffic Control Plans for work at the Regent intersection

X-31, X-32: Updated for floating bus stop

MN-1: Added bus pads to maintenance plan

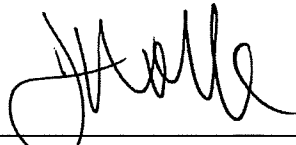
Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

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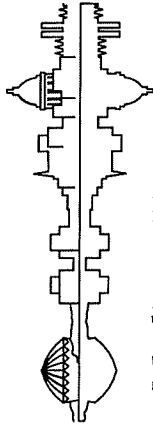
Sincerely,



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James M. Wolfe, P.E., City Engineer

JMW:mfg



Madison, Wisconsin

**INDEX OF SHEETS**

NOTES AND DETAILS	
SHEET NO. D1-D3	EROSION CONTROL PLANS
SHEET NO. EC1-EC11	STREET PLAN & PROFILES
SHEET NO. G1-G2	SWALE PLANS
SHEET NO. U1-U11	UTILITY PLAN & PROFILES
SHEET NO. U12-U13	SANITARY SEWER SCHEDULE
SHEET NO. U14-U17	STORM SEWER SCHEDULE
SHEET NO. W1-W7	WATER MAIN PLAN & PROFILES
SHEET NO. W8-W11	WATER IMPACT PLAN
SHEET NO. W12	WATER ESTIMATE OF MATERIALS
SHEET NO. E1-E15	ELECTRICAL PLANS
SHEET NO. M1-M14	PAVEMENT MARKING PLANS
SHEET NO. TC1-TC2	TRAFFIC CONTROL PLANS
SHEET NO. X1-X34	CROSS SECTIONS
SHEET NO. MN-1	MAINTENANCE PLAN (CITY USE ONLY)

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SN —
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%.

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

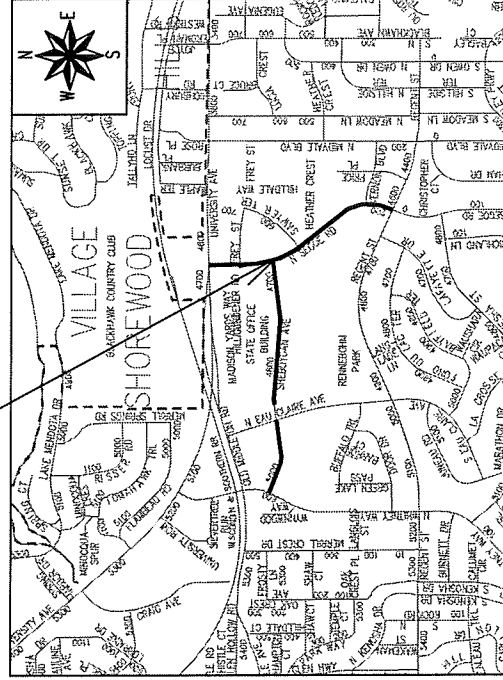
#### PLAN OF PROPOSED IMPROVEMENT

##### SHEBOYGAN AVENUE AND SEGOE ROAD ASSESSMENT DISTRICT - 2024

ADDENDUM #1- 12/8/2023  
 REVISED THE FOLLOWING:  
 TITLE SHEET  
 SHEETS P1-P2, P4-P11  
 SHEET U8  
 SHEETS W1, W2, W6, W8, W9, W12  
 SHEETS M8, M10  
 SHEETS X31-X32  
 SHEET MN1  
 ADDED THE FOLLOWING:  
 SHEETS TC1-TC2

CITY PROJECT NO. 14215  
 CONTRACT NO. 8693

### PROJECT LOCATION



**EARTHWORK SUMMARY:**  
 EXCAVATION CUT (MEASURED PLAN QUANTITY)..... 14,900 CY  
 ESTIMATED UNDISTRIBUTED UNDERCUT..... 2,500 CY  
 TOTAL UNCLASSIFIED EXCAVATION CUT..... 17,400 CY

PUBLIC IMPROVEMENT PROJECT APPROVED OCTOBER 17, 2023 BY THE COMMON COUNCIL OF MADISON, WISCONSIN	PUBLIC IMPROVEMENT DESIGN APPROVED BY: <i>Chris Patsykowski</i> City Engineer 12/01/2023 Date	STREET DESIGNED BY:  Dec 1, 2023	SANITARY SEWER DESIGNED BY:  Dec 1, 2023
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TRAFFIC SIGNALS/STREET LIGHTING DESIGNED BY:  Dec 1, 2023	STORM SEWER DESIGNED BY:  Dec 1, 2023	WATER DESIGNED BY:  Dec 1, 2023	PAVEMENT MARKING DESIGNED BY:  Dec 1, 2023
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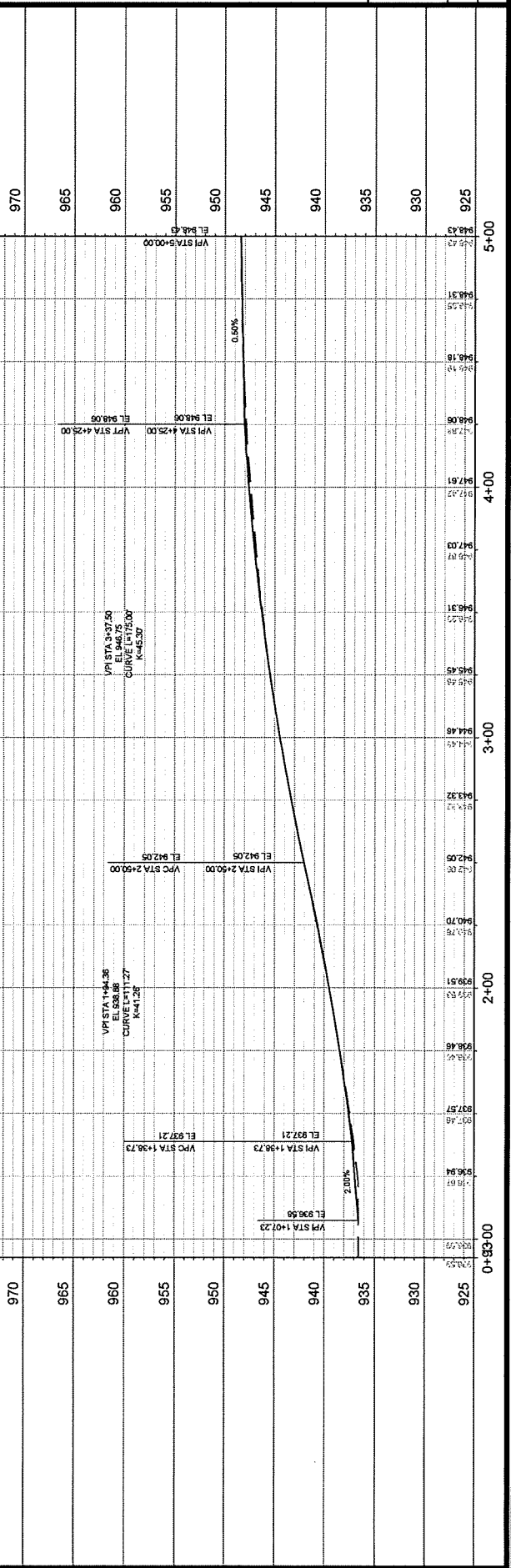
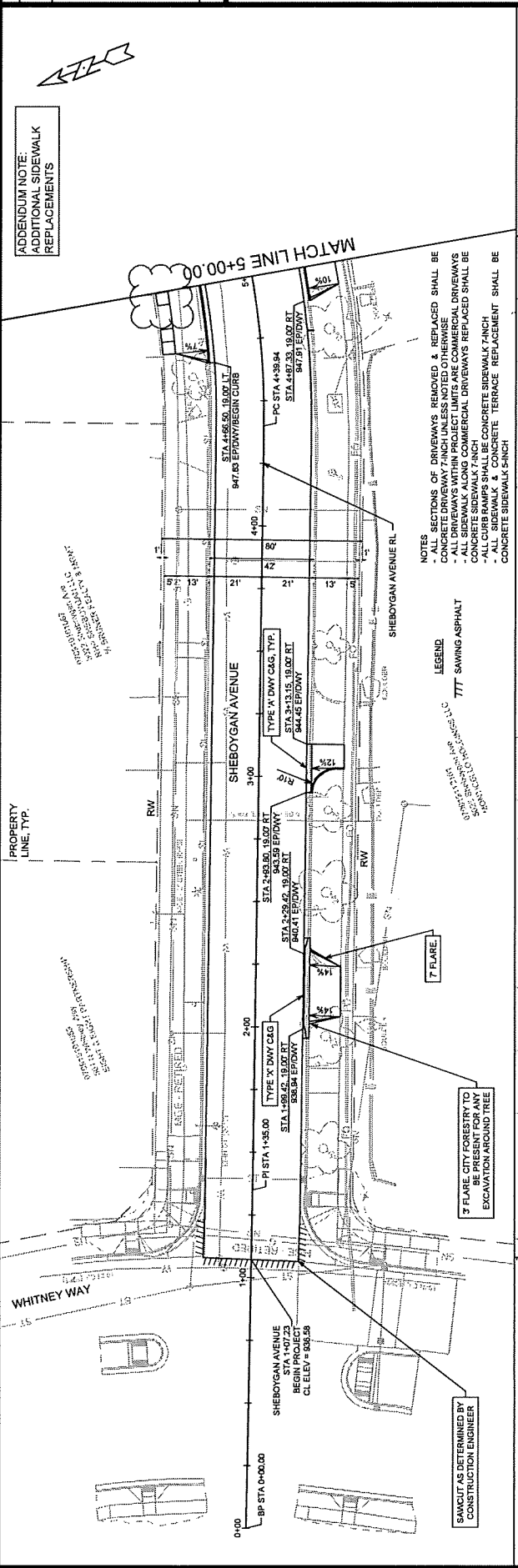
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10	11/11/11	ISSUED FOR PERMIT

14215  
 14215  
 8693  
 CONTRACT NO:  
 MADISON, WI

PLAN & PROFILE SHEBOYGAN AVENUE  
 SHEBOYGAN SEGOE RESURFACING WITH UTILITIES  
 MADISON PROJECT #14215CAD/Sheoeb14215ENR.dwg



14215  
 P-1



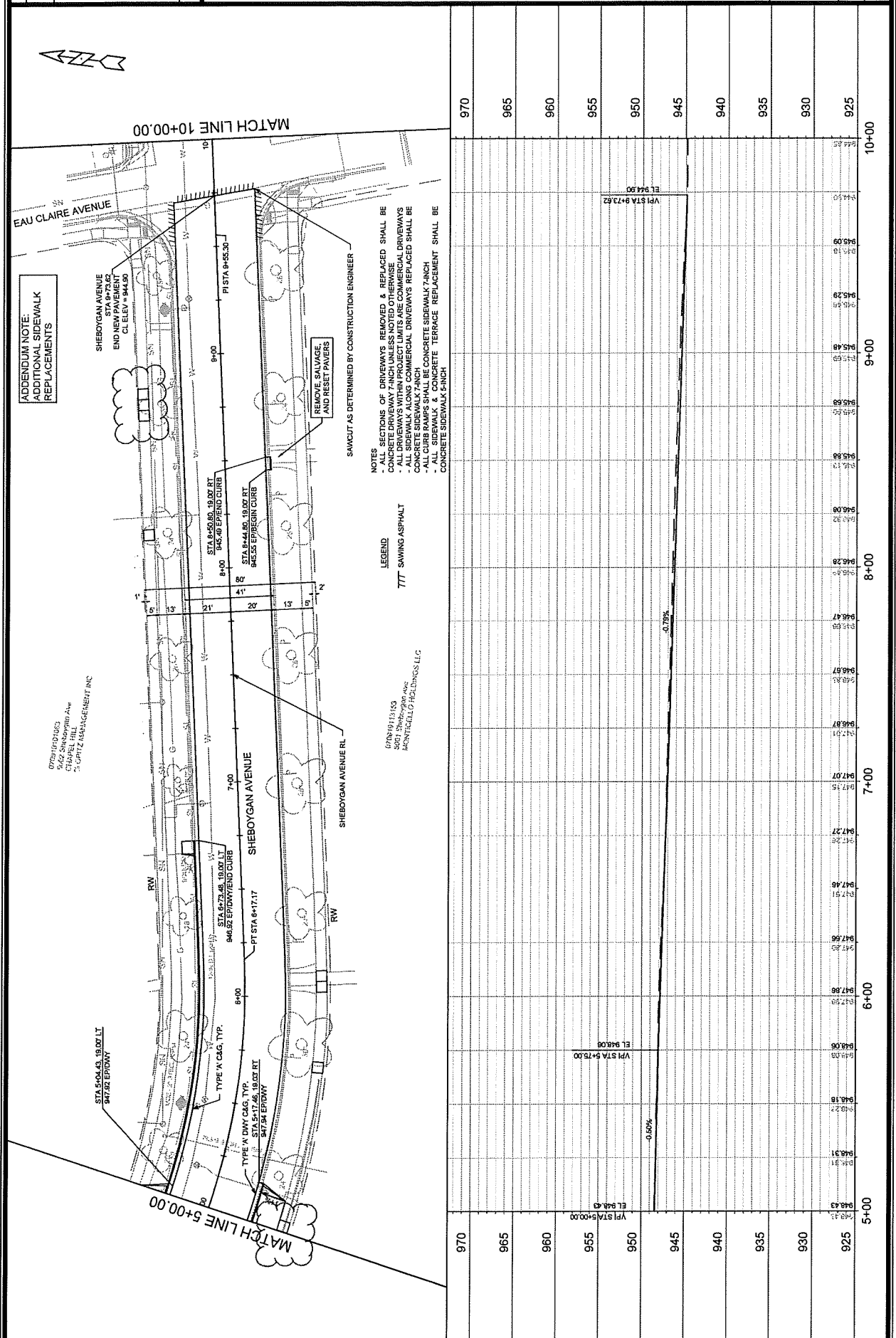
ADDITIONAL SIDEWALK REPLACEMENTS

- NOTES
- ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE SIDEWALK 7-INCH CONCRETE SIDEWALK 7-INCH CONCRETE SIDEWALK 5-INCH
  - ALL DRIVEWAYS WITHIN PROJECT LIMITS ARE COMMERCIAL DRIVEWAYS
  - ALL SIDEWALK ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE SIDEWALK 7-INCH CONCRETE SIDEWALK 7-INCH
  - ALL SIDEWALK & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 5-INCH

LEGEND

- TTTT SAWING ASPHALT

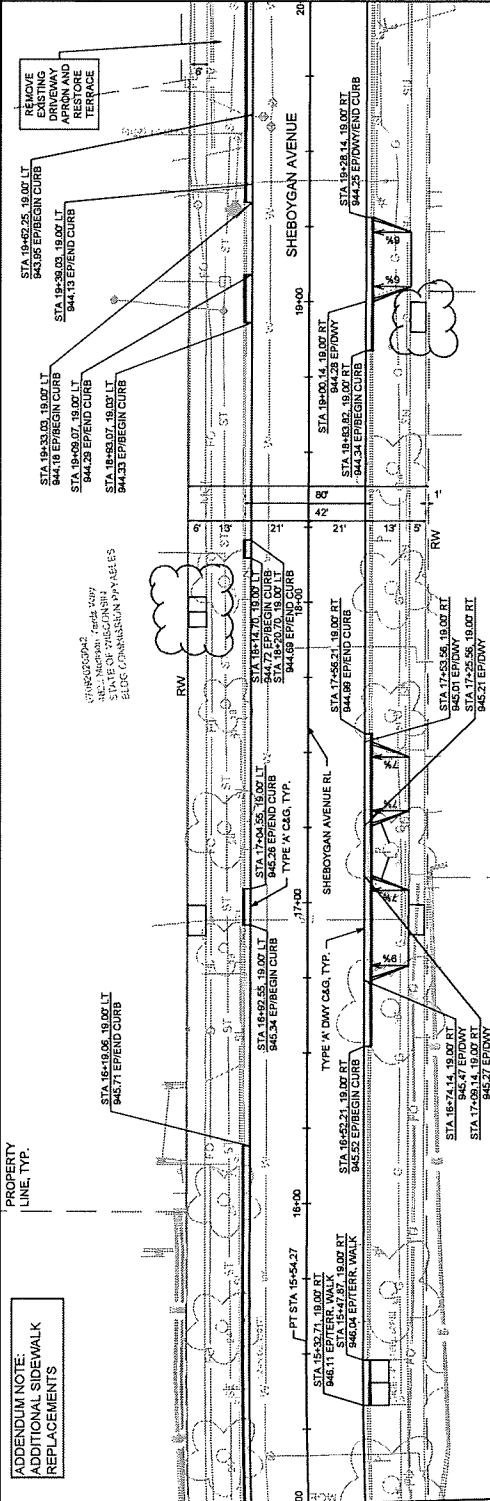




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PROPERTY LINE, TYP.

ADDITIONAL NOTE:  
ADDITIONAL SIDEWALK REPLACEMENTS



NOTES  
- ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE SIDEWALK 7 INCH  
- ALL DRIVEWAYS WITHIN PROJECT LIMITS ARE COMMERCIAL DRIVEWAYS  
- ALL DRIVEWAYS ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE SIDEWALK 7 INCH  
- ALL SIDEWALK & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 7 INCH

LEGEND  
777 SAWING ASPHALT

970	965	960	955	950	945	940	935	930	925
15+00	15+10	15+20	15+30	15+40	15+50	15+60	15+70	15+80	15+90
16+00	16+10	16+20	16+30	16+40	16+50	16+60	16+70	16+80	16+90
17+00	17+10	17+20	17+30	17+40	17+50	17+60	17+70	17+80	17+90
18+00	18+10	18+20	18+30	18+40	18+50	18+60	18+70	18+80	18+90
19+00	19+10	19+20	19+30	19+40	19+50	19+60	19+70	19+80	19+90
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14215  
P-5

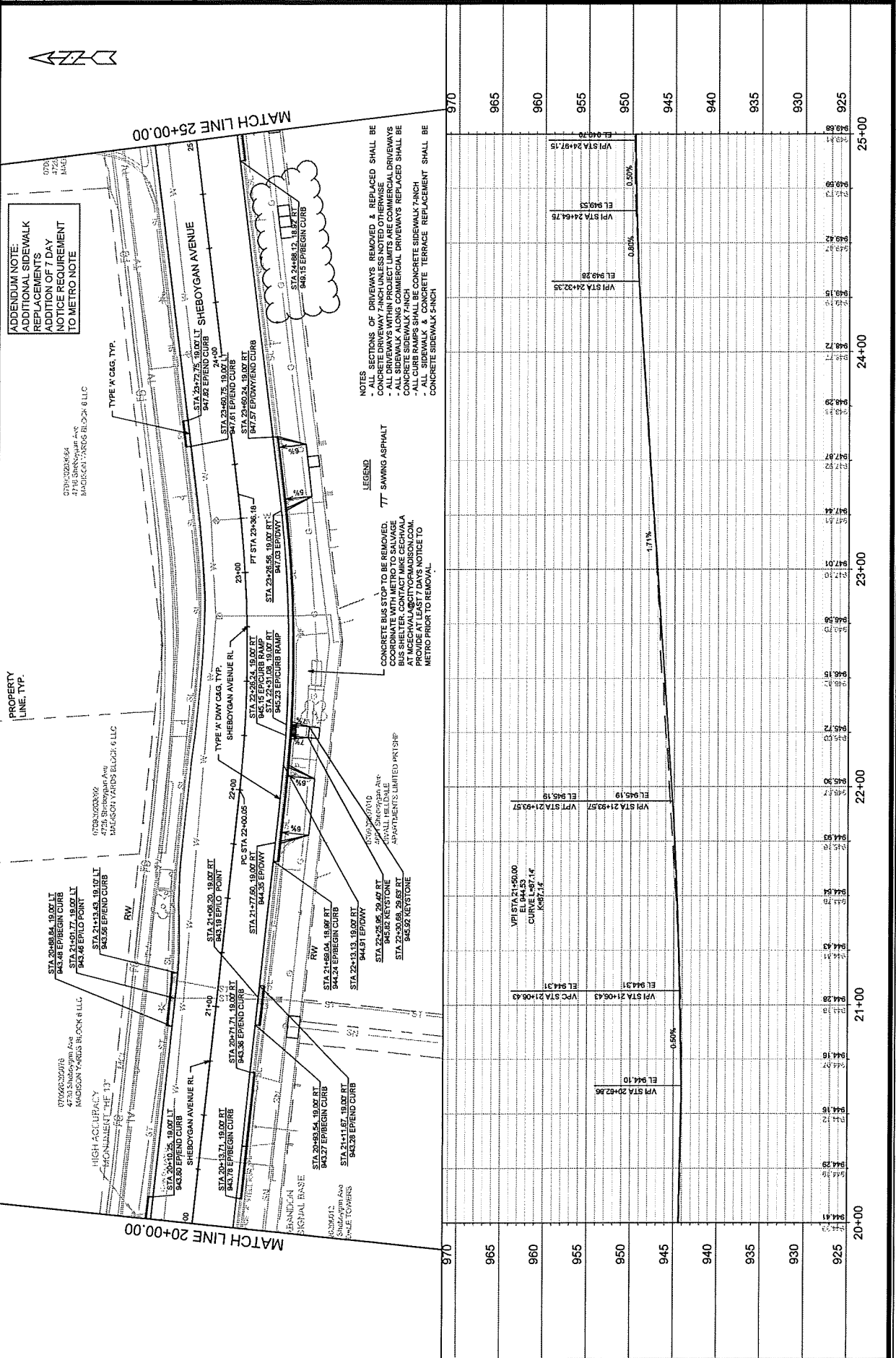
PLAN & PROFILE SHEBOYGAN AVENUE

SHEBOGAN SEGOE RESURFACING WITH UTILITIES

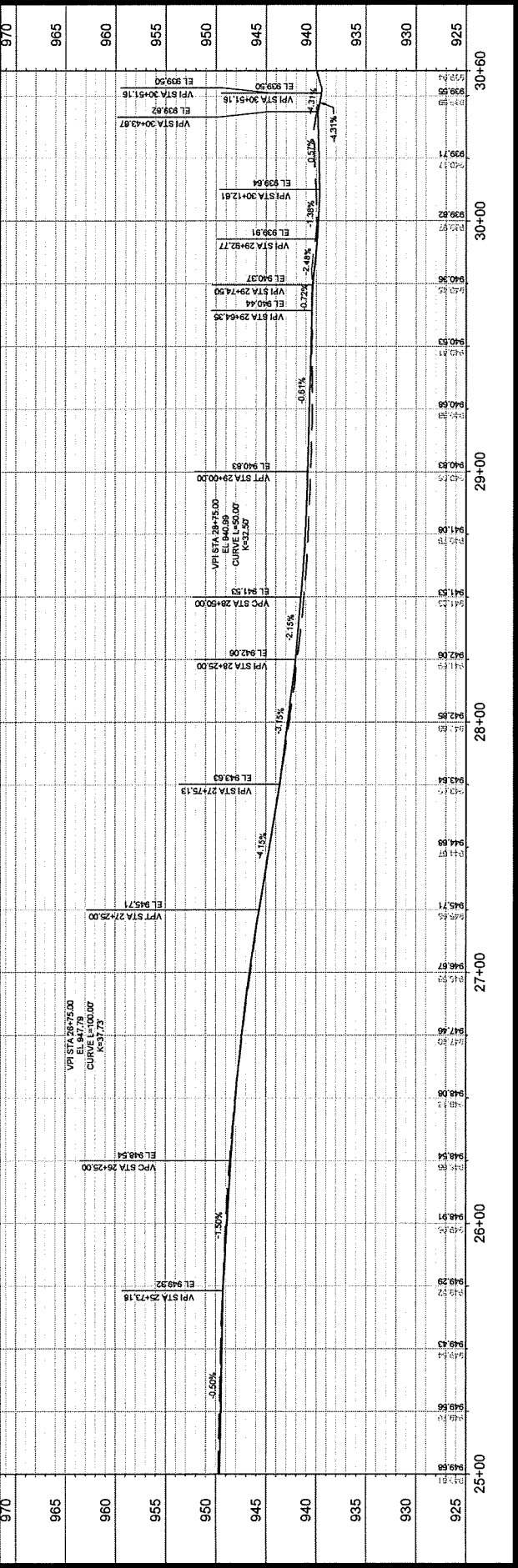
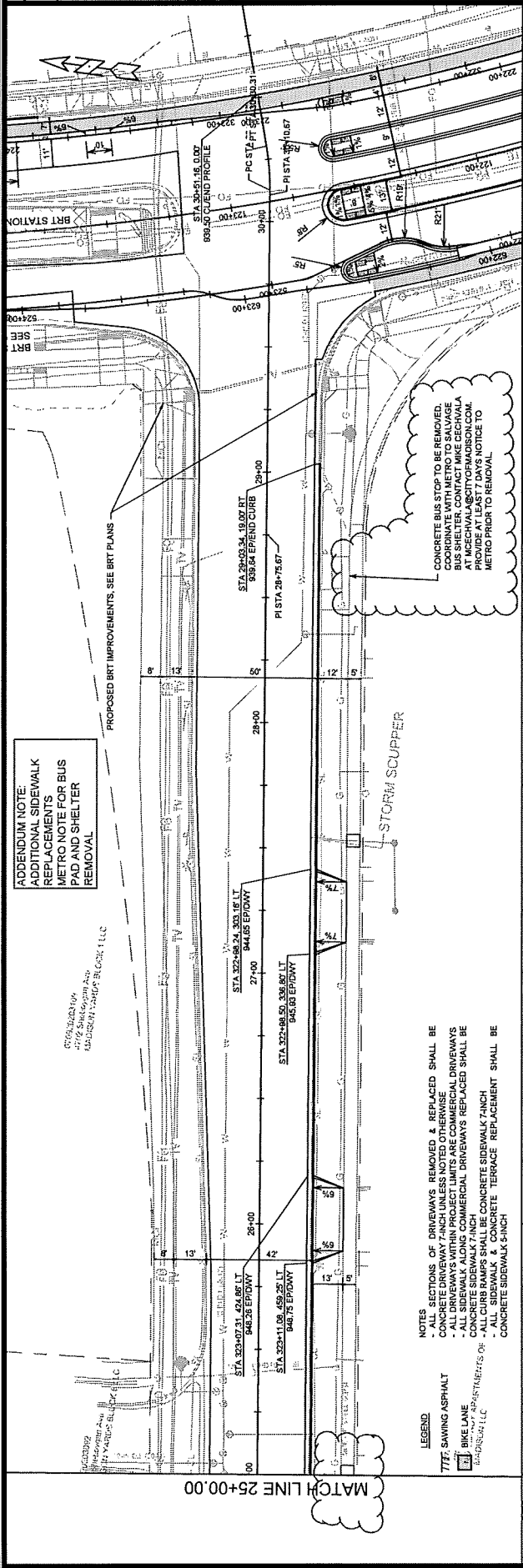
MADISON, WI

14215

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ADDITIONAL NOTE:  
 ADDITIONAL SIDEWALK REPLACEMENTS  
 ADDITION OF 7 DAY NOTICE REQUIREMENT TO METRO NOTE









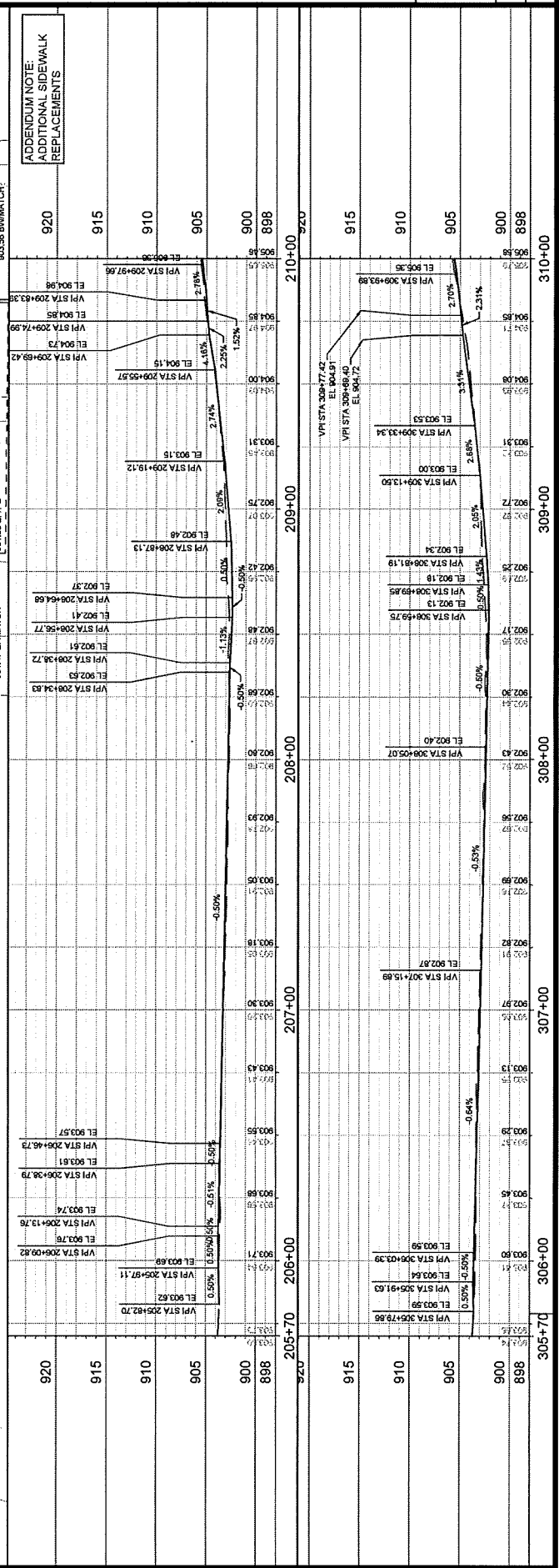
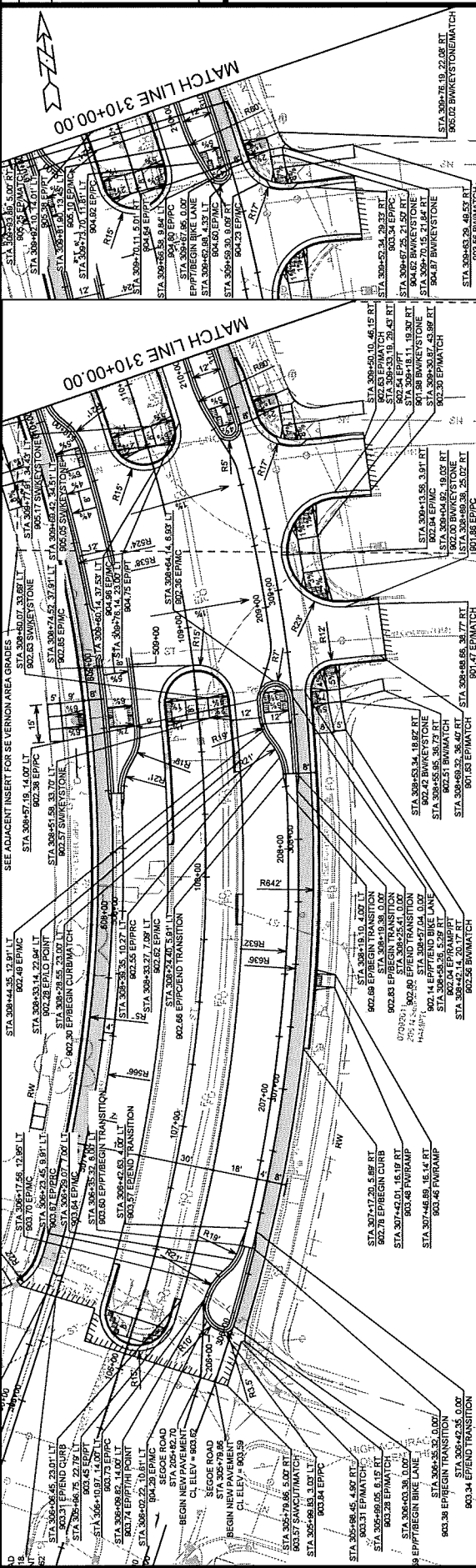
14215  
P-7B

PLAN & PROFILE SEGOE RD NORTHBOUND GRADES  
SHEBOGAN SEGOE RESURFACING WITH UTILITIES

CONTRACT NO: 8693

MADISON, WI  
14215

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ADDITIONAL NOTE:  
ADDITIONAL SIDEWALK  
REPLACEMENTS





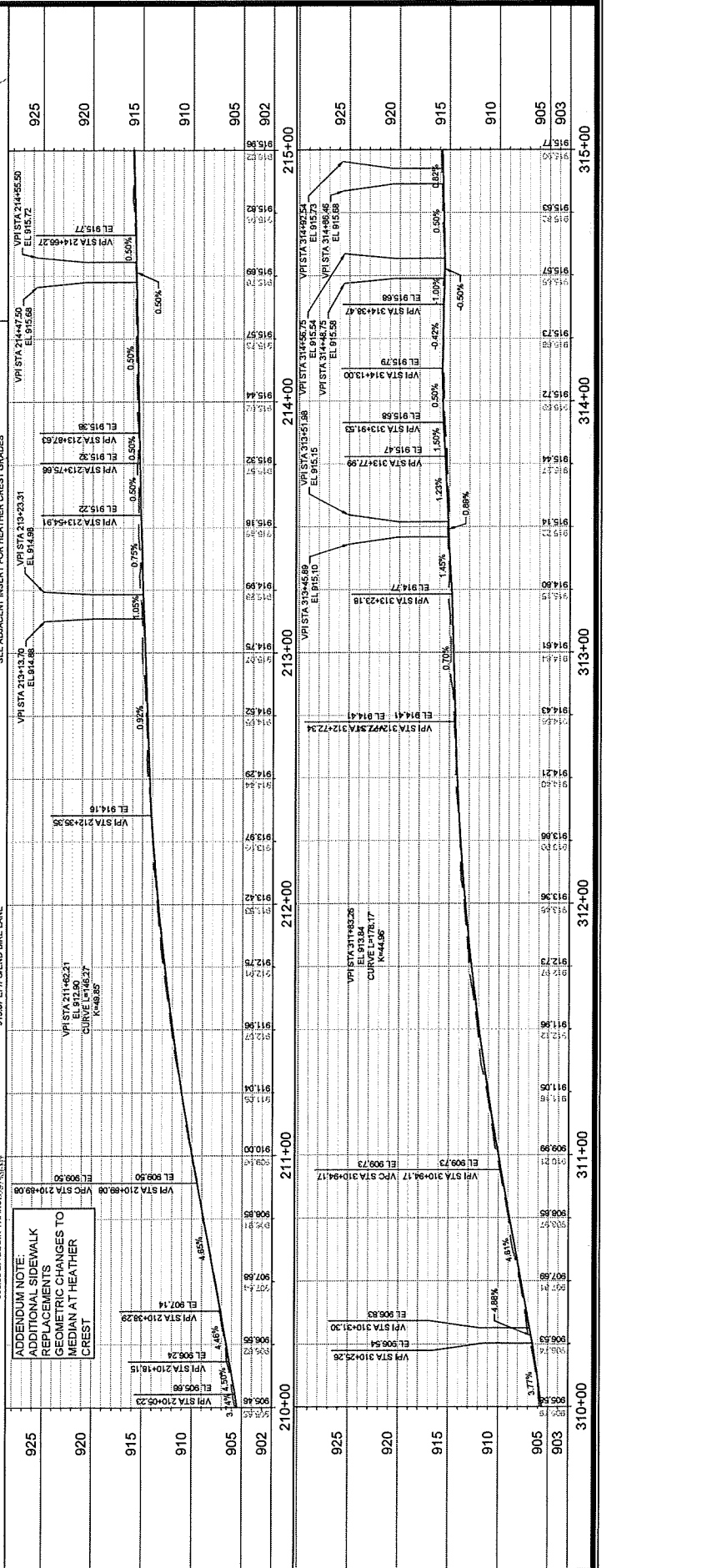
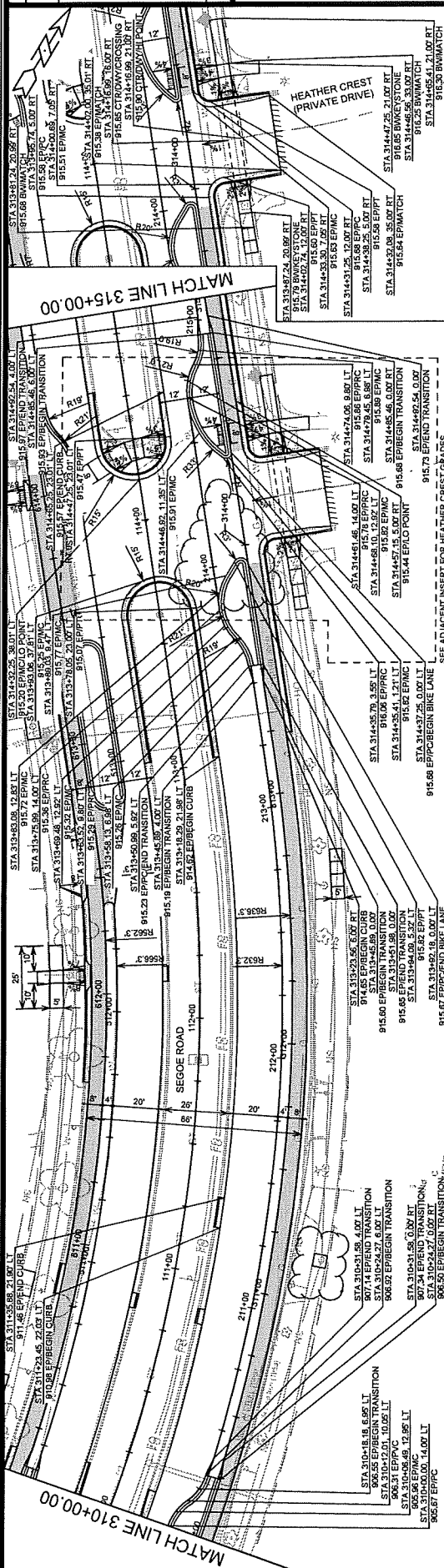


14215  
P-8B

PLAN & PROFILE SEGOE RD NORTHBOUND GRADES  
SHEBOYGAN SEGOE RESURFACING WITH UTILITIES

CONTRACT NO: 8693  
MADISON, WI

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ADDITIONAL NOTE:  
ADDITIONAL SIDEWALK  
REPLACEMENTS  
GEOMETRIC CHANGES TO  
MEDIAN AT HEATHER  
CREST





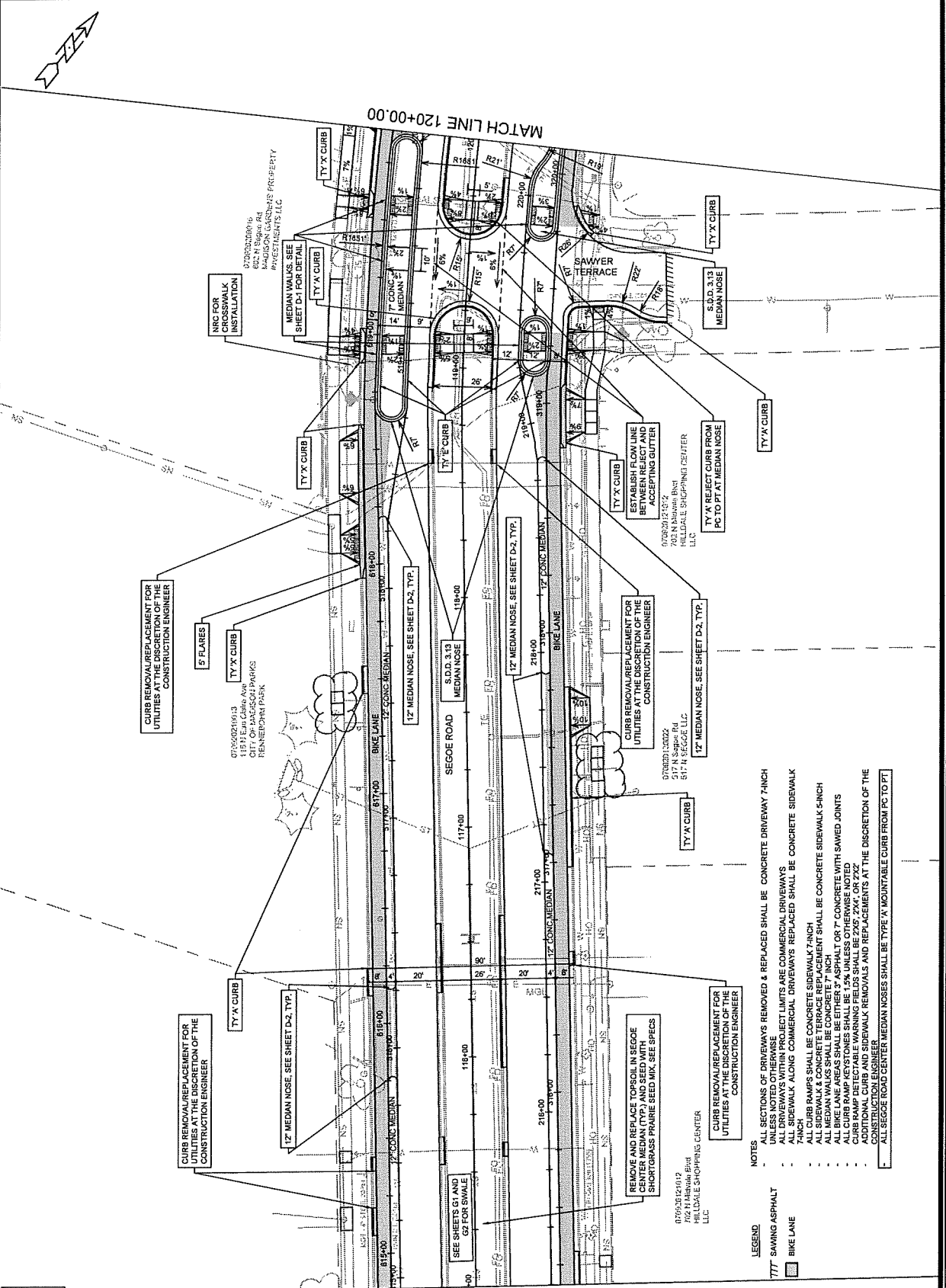




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DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY	CHKD	DATE

CONTRACT NO: 8893  
 MADISON, WI  
 14215

PLAN SEGOE RD  
 SHEBOGAN SEGOE RESURFACING WITH UTILITIES  
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ADDENDUM NOTE:  
 ADDITIONAL SIDEWALK  
 REPLACEMENTS  
 SEGOE CENTER MEDIAN  
 MOUNTABLE CURB NOTE

MATCH LINE 115+00.00

MATCH LINE 120+00.00

- NOTES
- ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH
  - ALL DRIVEWAYS WITHIN PROJECT LIMITS ARE COMMERCIAL DRIVEWAYS
  - ALL SIDEWALKS ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE SIDEWALK 7-INCH
  - ALL SIDEWALKS ALONG RESIDENTIAL DRIVEWAYS SHALL BE CONCRETE SIDEWALK 5-INCH
  - ALL SIDEWALKS SHALL BE CONCRETE SIDEWALK 5-INCH
  - ALL DRIVEWAY & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 5-INCH
  - ALL MEDIAN WALKS SHALL BE CONCRETE 7-INCH
  - ALL BIKE LANE AREAS SHALL BE EITHER 3" ASPHALT OR 7" CONCRETE WITH SAWED JOINTS
  - ALL DRIVEWAY & CONCRETE TERRACE REPLACEMENT SHALL BE 1.5% UNLESS OTHERWISE NOTED
  - CURB AND SIDEWALK REPLACEMENT SHALL BE 1.5% UNLESS OTHERWISE NOTED
  - ADDITIONAL CURB AND SIDEWALK REMOVALS AND REPLACEMENTS AT THE DISCRETION OF THE CONSTRUCTION ENGINEER
  - ALL SEGOE ROAD CENTER MEDIAN NOSES SHALL BE TYPE 'X' MOUNTABLE CURB FROM PC TO PT

- LEGEND
- 7/77 SAWING ASPHALT
  - BIKE LANE

REMOVE AND REPLACE TOPSOIL IN SEGOE CENTER MEDIAN (TYP.) AND SEED WITH SHORTGRASS PRAIRIE SEED MIX. SEE SPECS

CURB REMOVAL/REPLACEMENT FOR UTILITIES AT THE DISCRETION OF THE CONSTRUCTION ENGINEER

12' MOUNTABLE CURB FROM PC TO PT

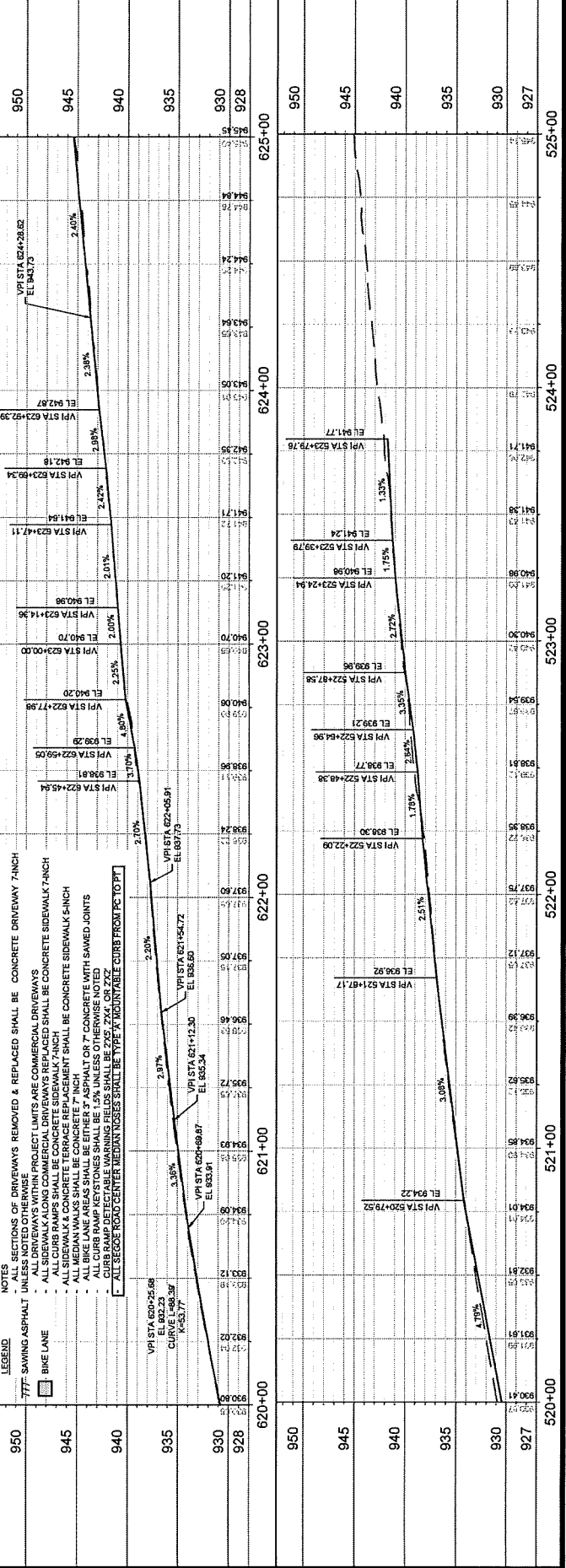
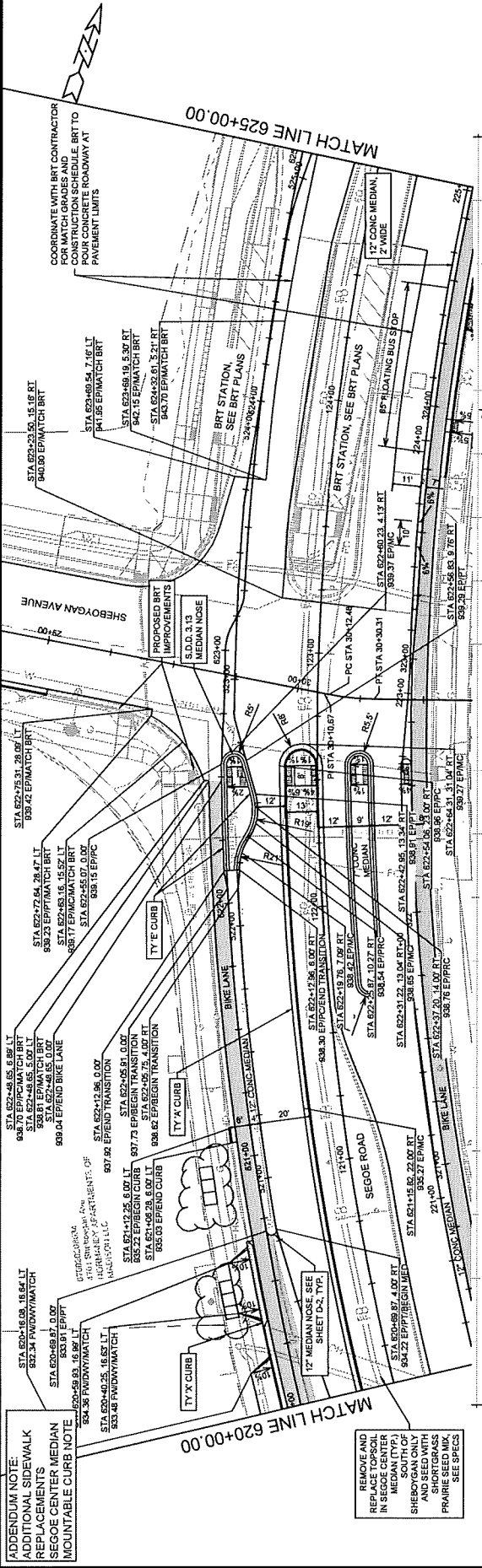
12' MOUNTABLE CURB FROM PC TO PT

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12' MOUNTABLE CURB FROM PC TO PT



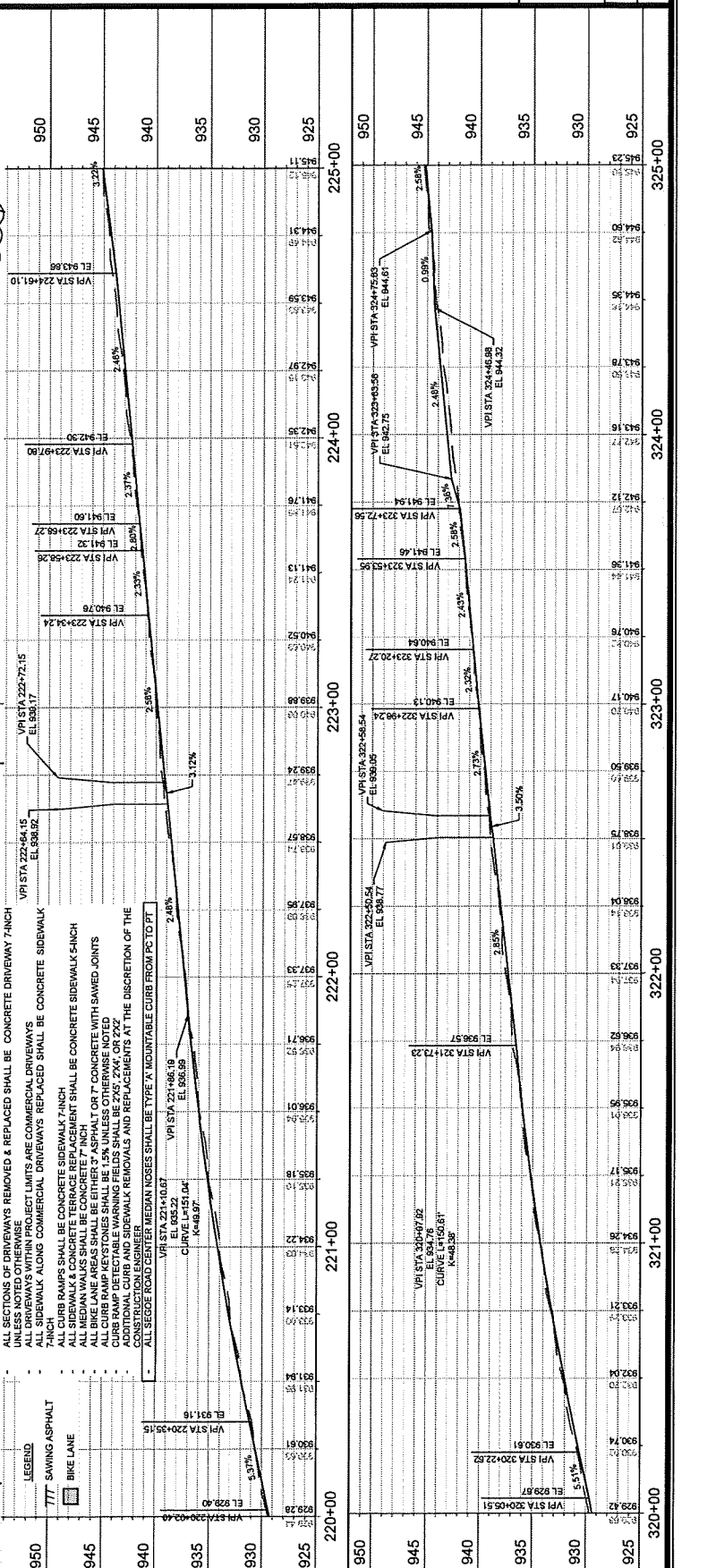
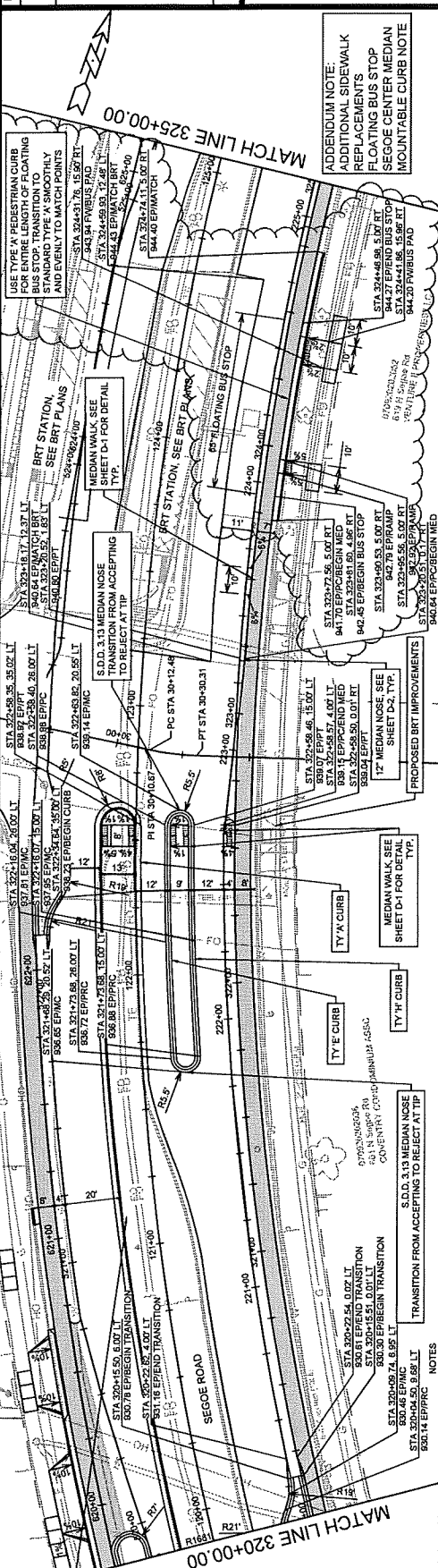


14215  
P-10B

PLAN & PROFILE SEGOE RD NORTHBOUND  
SHEBOYGAN SEGEOE RESURFACING WITH UTILITIES

CONTRACT NO: 8693  
MADISON, WI

14215  
P-10B



REVISION

14215  
P-10B

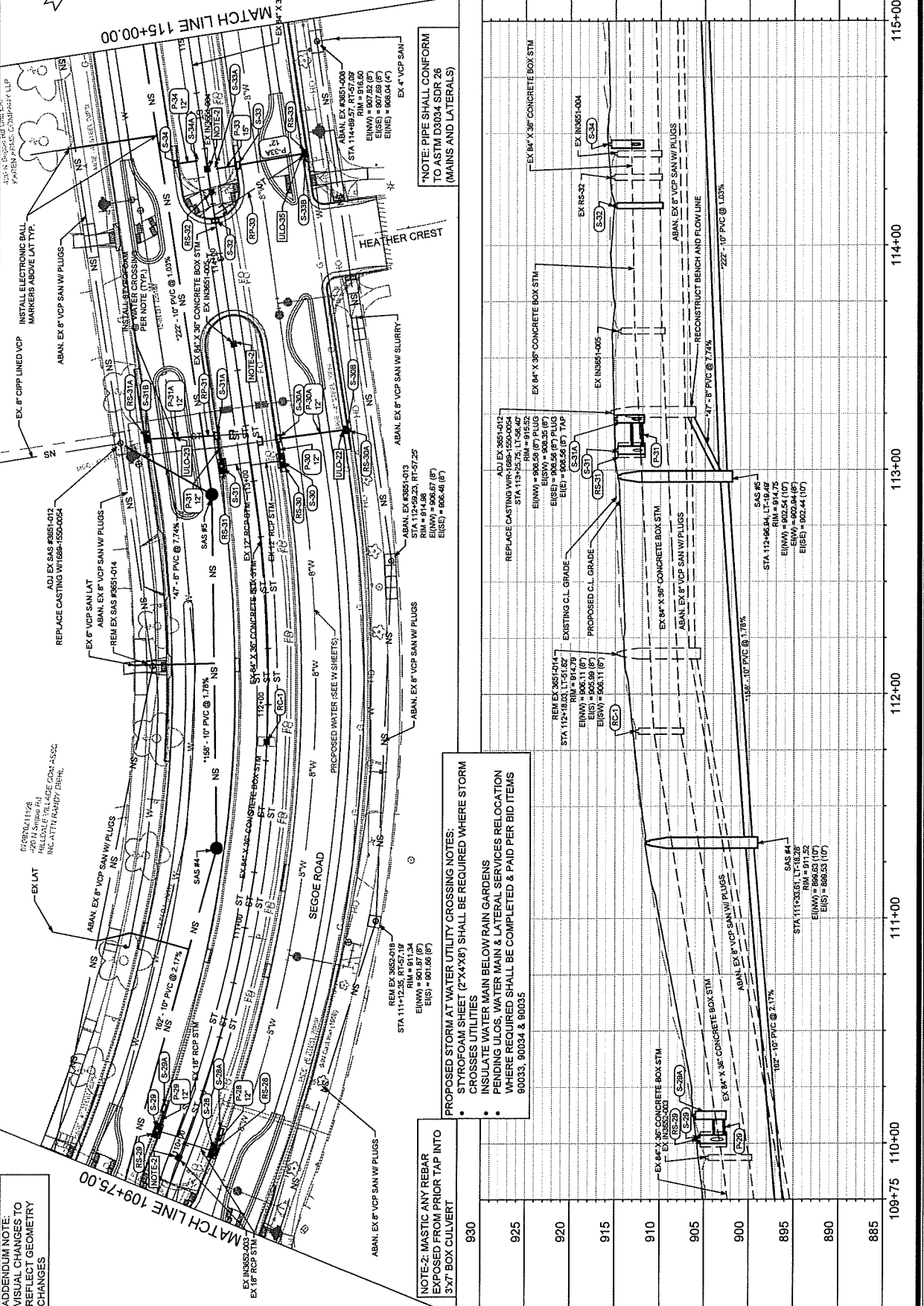
CONTRACT NO: 8693  
MADISON, WI

14215  
P-10B





UTILITY PLAN & PROFILE - SEGOE ROAD



ADDENDUM NOTE:  
VISUAL CHANGES TO  
REFLECT GEOMETRY  
CHANGES

NOTE-2: MASTIC ANY REBAR  
EXPOSED FROM PRIOR TAP INTO  
3'X7' BOX CULVERT

PROPOSED STORM AT WATER UTILITY CROSSING NOTES:  
 • STYROFOAM SHEET (2'X4'X8) SHALL BE REQUIRED WHERE STORM  
 CROSSES UTILITIES  
 • INSULATE WATER MAIN BELOW RAIN GARDENS  
 • PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION  
 • WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS  
 90033, 90034 & 90035

\*NOTE: PIPE SHALL CONFORM  
TO ASTM D3034 SDR 26  
(MAINS AND LATERALS)

REPLACE CASTING W/ 1888-1550-0054  
 STA 113+25.75, LT=56.40'  
 E(INW) = 906.59 (6') PLUG  
 E(ISO) = 908.35 (6')  
 E(ET) = 906.59 (6') TAP  
 E(S) = 906.59 (6')

REPLACE CASTING W/ 1888-1550-0054  
 STA 112+59.23, RT=57.25'  
 RIM = 914.08  
 E(INW) = 907.87 (6')  
 E(ISO) = 906.46 (6')

REPLACE CASTING W/ 1888-1550-0054  
 STA 112+99.23, RT=57.25'  
 RIM = 914.08  
 E(INW) = 907.87 (6')  
 E(ISO) = 906.46 (6')

REPLACE CASTING W/ 1888-1550-0054  
 STA 112+46.54, LT=16.28'  
 RIM = 914.25  
 E(INW) = 902.54 (10')  
 E(ISO) = 900.94 (6')  
 E(S) = 902.44 (10')

REPLACE CASTING W/ 1888-1550-0054  
 STA 112+12.35, RT=57.19'  
 RIM = 911.24  
 E(INW) = 901.56 (6')  
 E(S) = 901.56 (6')

REPLACE CASTING W/ 1888-1550-0054  
 STA 111+12.35, RT=57.19'  
 RIM = 911.24  
 E(INW) = 901.56 (6')  
 E(S) = 901.56 (6')

REPLACE CASTING W/ 1888-1550-0054  
 STA 111+32.67, LT=16.28'  
 RIM = 911.25  
 E(INW) = 902.54 (10')  
 E(ISO) = 900.94 (6')  
 E(S) = 902.44 (10')

REPLACE CASTING W/ 1888-1550-0054  
 STA 112+12.35, RT=57.19'  
 RIM = 911.24  
 E(INW) = 901.56 (6')  
 E(S) = 901.56 (6')

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 STA 112+46.54, LT=16.28'  
 RIM = 914.25  
 E(INW) = 902.54 (10')  
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 STA 112+59.23, RT=57.25'  
 RIM = 914.08  
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 E(ISO) = 906.46 (6')

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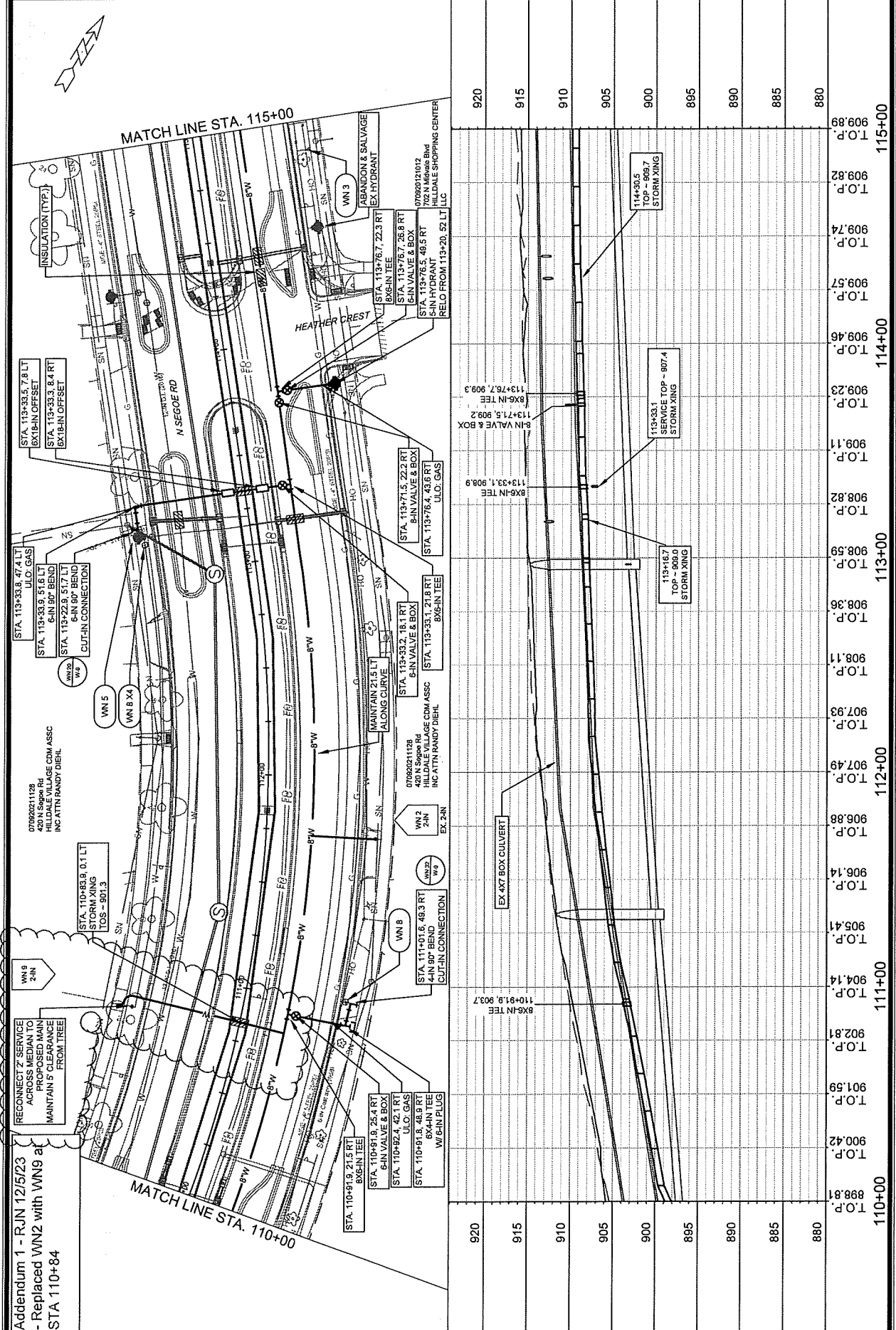
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 STA 113+25.75, LT=56.40'  
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 E(ISO) = 908.35 (6')  
 E(ET) = 906.59 (6') TAP  
 E(S) = 906.59 (6')

930	925	920	915	910	905	900	895	890	885	109+75	110+00	111+00	112+00	113+00	114+00	115+00
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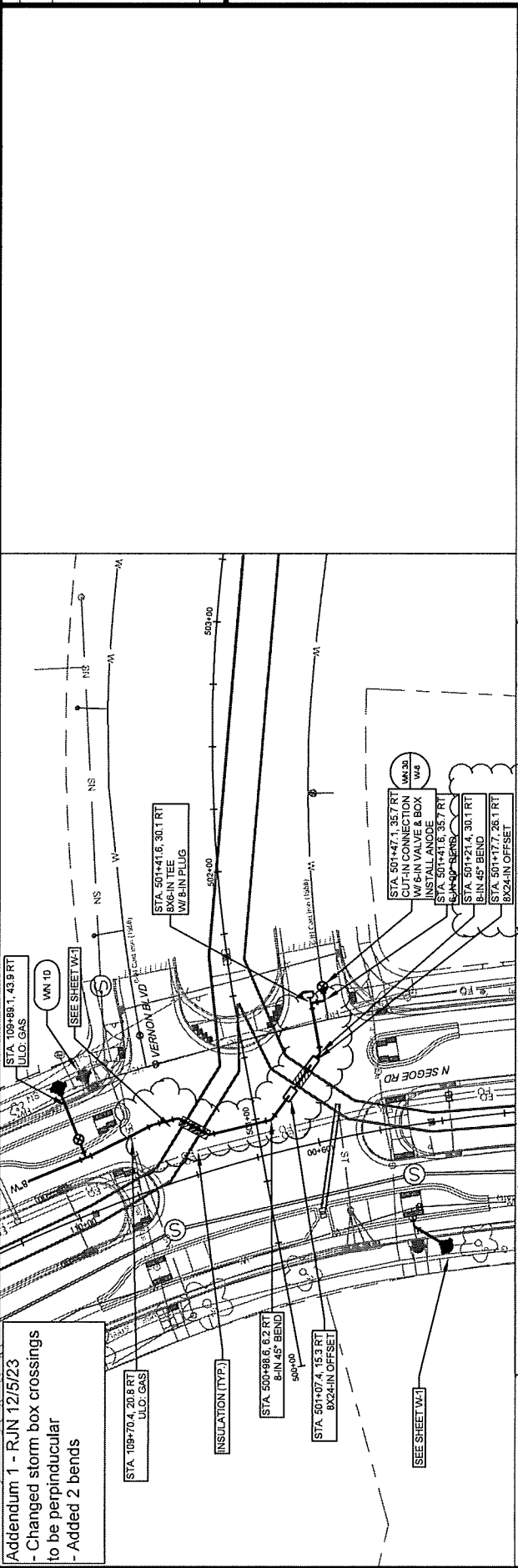
DATE	REVISION

14215  
 8693  
 CONTRACT NO:  
 MADISON, WI  
 14215

MADISON PROJECT 14215CADWAM14215-Water-Segoe Ave.dwg  
 SHEBOYGAN SEGOE RESURFACING WITH UTILITIES  
 VERNON BLVD - WATER PLAN AND PROFILE



14215  
 W-6



915	915	910	905	900	895	890	885	880	875
T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.
500+00	501+00	502+00	503+00	503+00	503+00	503+00	503+00	503+00	503+00

Addendum 1 - RJN 12/5/23  
 - Changed storm box crossings to be perpendicular  
 - Added 2 bends



DATE	BY	SCALE	PROJECT NO.
12/11/23	RJN	AS SHOWN	14215

CONTRACT NO: 8693  
MADISON, WI  
14215

WATER IMPACT PLAN  
SHEBOGAN SEGOE RESURFACING WITH UTILITIES  
M:\ESKIN\proj\14215\CAD\DWG\14215 WU ImpactPlan.dwg



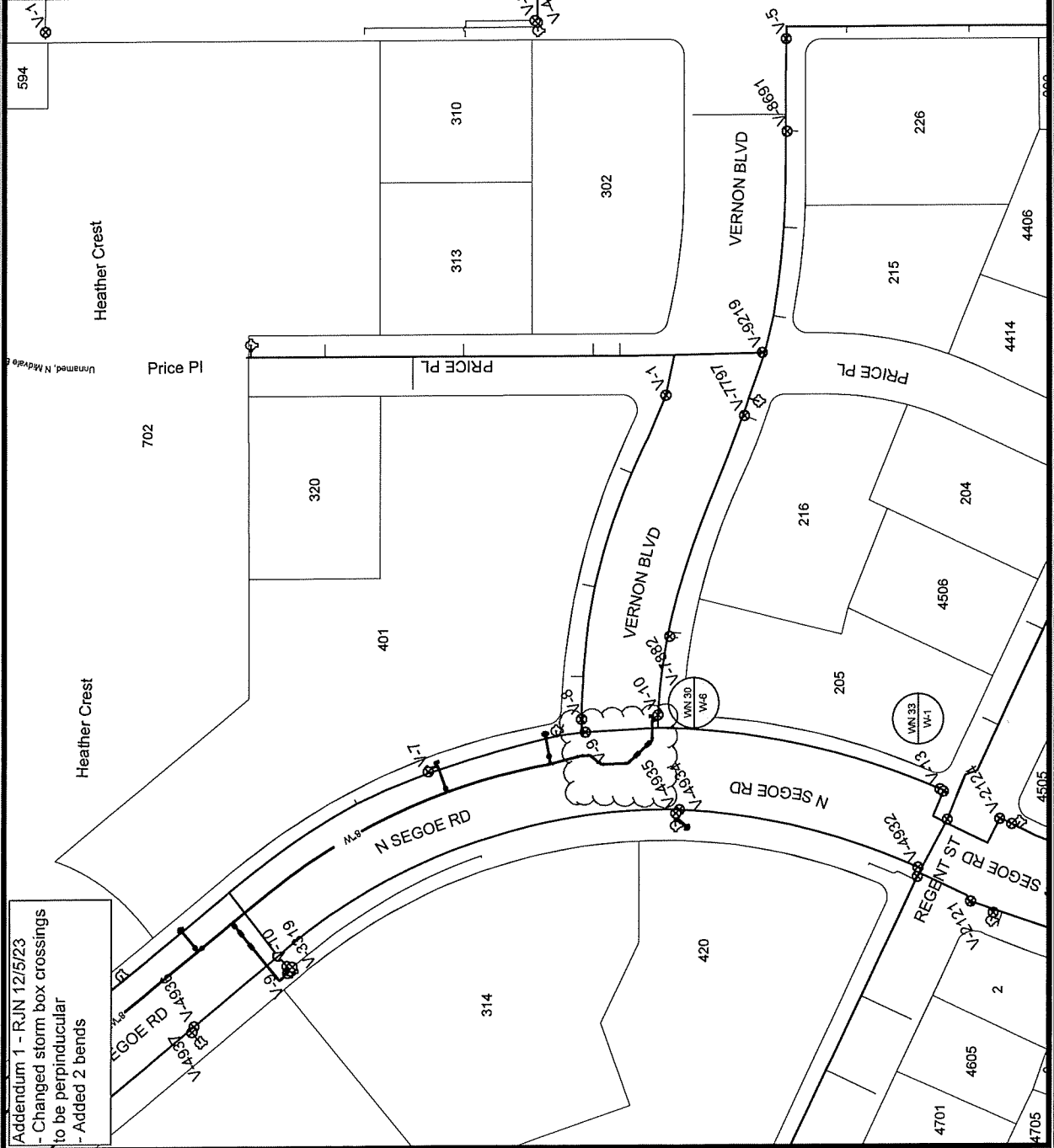
14215  
W-8



1" = 100'

- WN 30: CUT-IN CONNECTION; CUT & CAP MAIN NORTH & SOUTH OF TEE.  
ISOLATION VALVES:
- V-2 (VERNON BLVD & PRICE PL)
  - V-5 (VERNON BLVD & MIDVALE BLVD)
  - V-9 (SEGOE RD & VERNON BLVD)
- PROVIDE NOTICE:
- 205 N SEGOE RD
  - 215, 216 PRICE PL
  - 226 N MIDVALE BLVD
- WN 33: CUT & CAP EX 6" MAIN.  
ISOLATION VALVES:
- V-9 (SEGOE RD & VERNON BLVD)
  - V-10 (SEGOE RD & VERNON BLVD)
  - V-2123 (SEGOE RD & REGENT ST)
- PROVIDE NOTICE:
- NONE

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.



Addendum 1 - RJN 12/5/23  
- Changed storm box crossings to be perpendicular  
- Added 2 bends

REVISION



Addendum 1 - RJN 12/15/23  
 - Remove one "reconnect 2-in service"  
 - Added one "furnish and install 2-in service"

CONSTRUCTION NOTES:

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

\*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

DESCRIPTION	QUANTITY	UNIT
FURNISH AND INSTALL 4 INCH PIPE & FITTINGS	360	LNFT
FURNISH AND INSTALL 6 INCH PIPE & FITTINGS	1200	LNFT
FURNISH AND INSTALL 12 INCH PIPE & FITTINGS	1220	LNFT
FURNISH AND INSTALL 2 INCH WATER VALVE	8	EACH
FURNISH AND INSTALL 4 INCH WATER VALVE	3	EACH
FURNISH AND INSTALL 12 INCH WATER VALVE	5	EACH
FURNISH, INSTALL AND SALVAGE HYDRANT	1	EACH
FURNISH AND INSTALL 2 INCH SERVICE LATERALS	1	EACH
FURNISH AND INSTALL 4 INCH SERVICE LATERAL	3	EACH
FURNISH AND INSTALL 12 INCH SERVICE LATERAL	34	EACH
CUT OFF EXISTING WATER MAIN	1	EACH
ABANDON WATER VALVE BOX	20	EACH
ADJUST WATER VALVE BOX	50	EACH
6-IN MI PLUG	3	EACH
12-IN SOLID SLEEVE	2	EACH
4-IN 90° BEND	2	EACH
6-IN 90° BEND	11	EACH
8-IN 90° BEND	1	EACH
6-IN 45° BEND	1	EACH
8-IN 45° BEND	6	EACH
12-IN 45° BEND	2	EACH
12X8-IN REDUCER	1	EACH
6X4-IN TEE	2	EACH
8X6-IN TEE	6	EACH
12X6-IN TEE	5	EACH
12X12-IN TEE	2	EACH
6X18-IN OFFSET	2	EACH
12X24-IN OFFSET	2	EACH
INSTALL ANODE	3	EACH

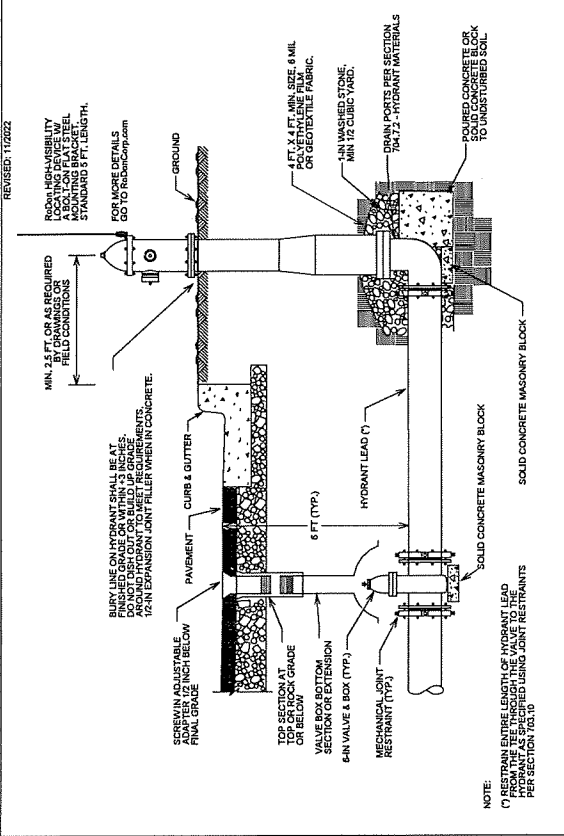
\*ESTIMATE OF MATERIALS SALVAGED & REUSED:

5-IN HYDRANT	2	RELOCATE
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.		

- WN-1 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.

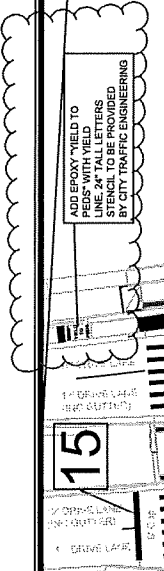
PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04  
REVISED: 11/2022



TYPICAL HYDRANT INSTALLATION  
NOT TO SCALE  
CITY OF MADISON  
WATER UTILITY

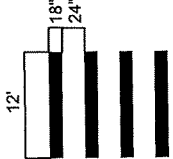
APPENDIX #1  
NEW MARKINGS FOR  
FLOATING BUS STOP



ADD EPOXY YIELD TO  
PEDS' WITH YIELD  
LINE, 24" TALL LETTERS  
BY CITY TRAFFIC ENGINEERING

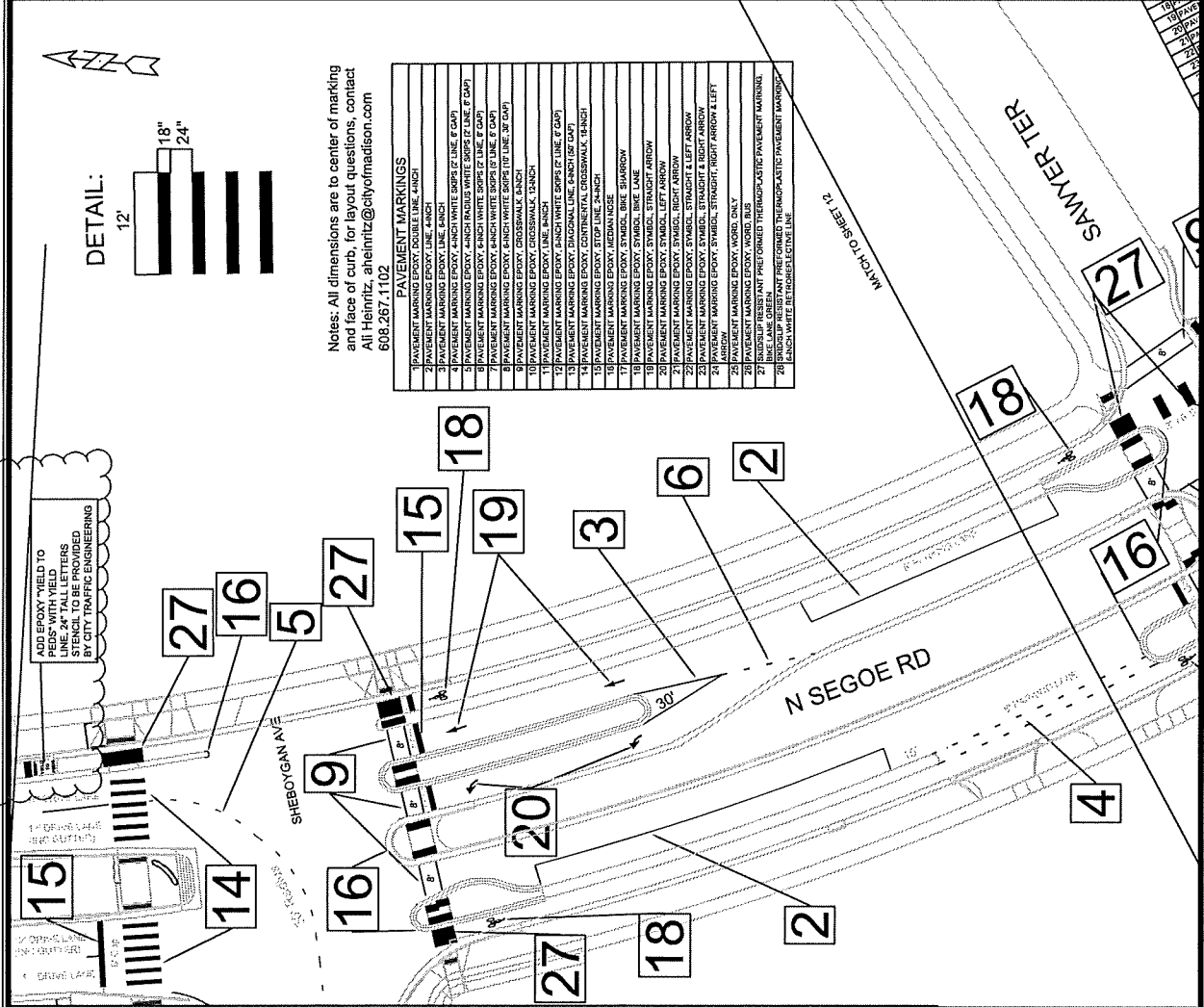


DETAIL:



Notes: All dimensions are to center of marking  
and face of curb, for layout questions, contact  
All Heinritz: aheinritz@cityofmadison.com  
608.267.1102

PAVEMENT MARKINGS	
1	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
2	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
3	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
4	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
5	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
6	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
7	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
8	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
9	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
10	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
11	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
12	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
13	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
14	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
15	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
16	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
17	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
18	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
19	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
20	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
21	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
22	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
23	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
24	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
25	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
26	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
27	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH
28	PAVEMENT MARKING EPOXY, 4-INCH WIDE, 4-INCH



ML-(7)



REVISION

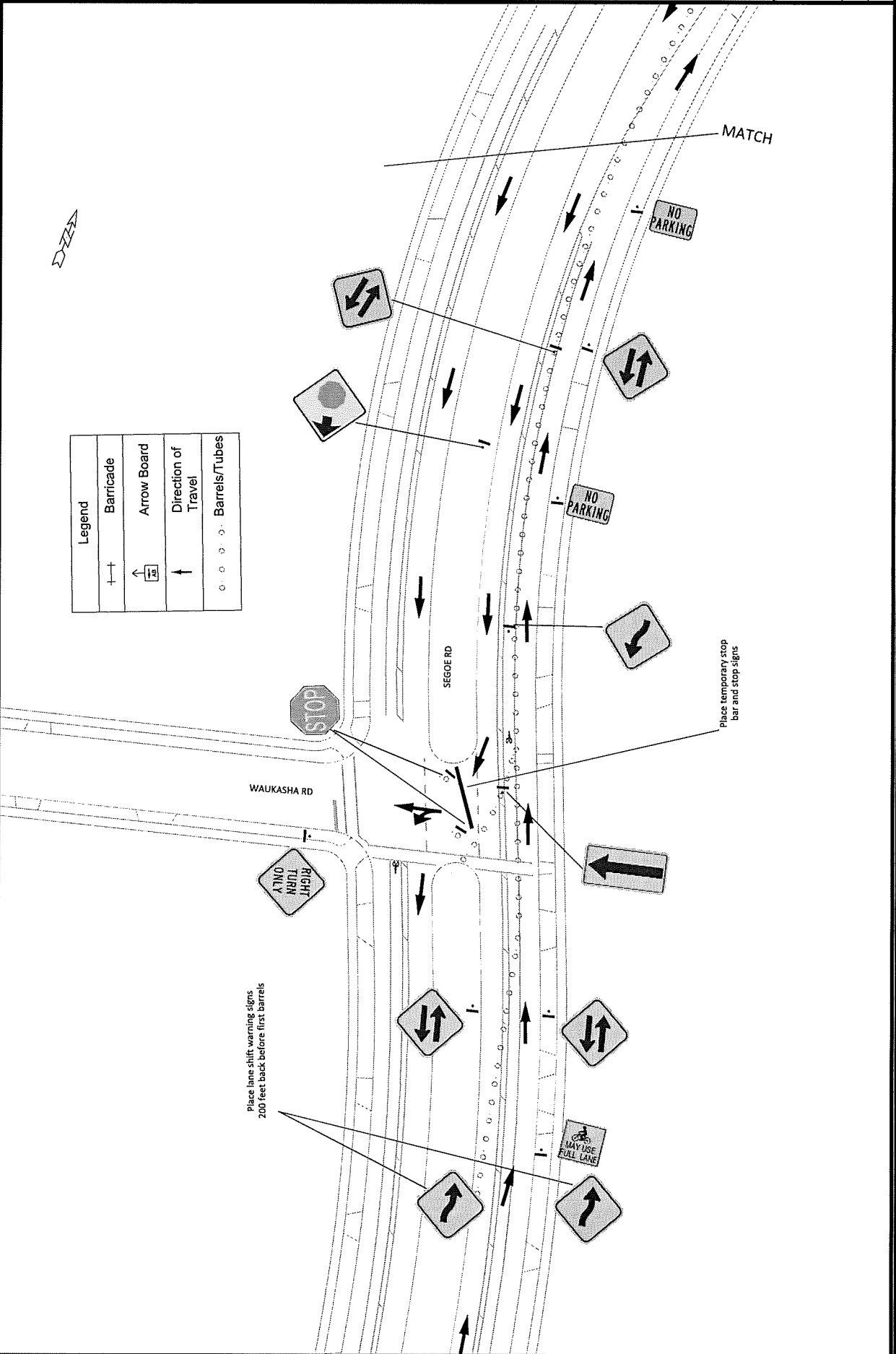
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3			
4			
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6			
7			
8			
9			
10			

14215  
 CONTRACT NO: 8693  
 SHEBOYGAN SEGOE RESURFACING & UTILITIES  
 MADISON, WI  
 14215

M:\DESIGN\Projects\14215\CAD\Traffic\14215TE-Traffic Control.dwg  
 TRAFFIC CONTROL PLANS



14215  
 TC-1



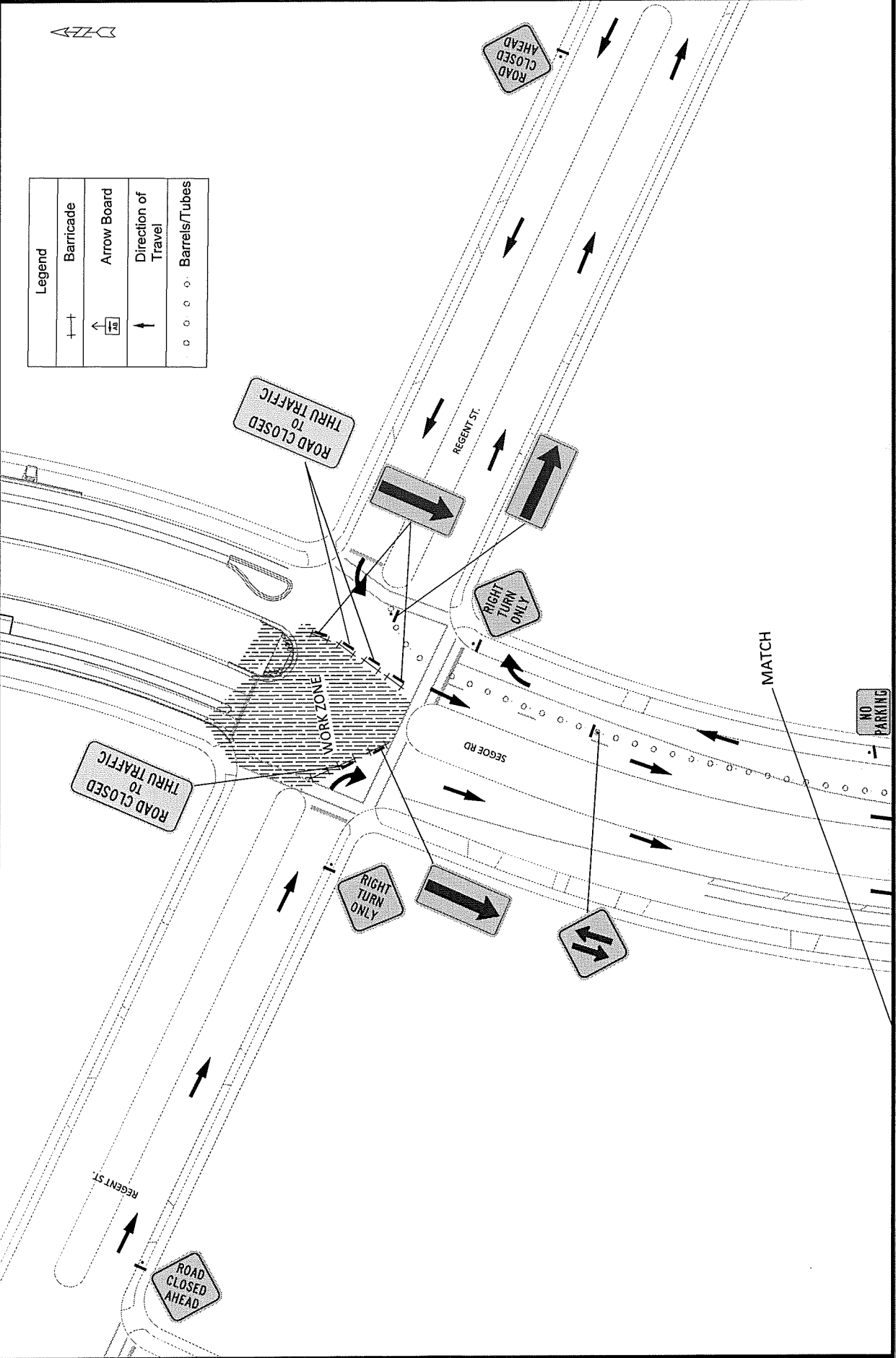
REVISION

DATE	BY	DESCRIPTION
12/20/2023	211 PM	REVISION

14215  
 CONTRACT NO: 8693  
 SHEBOYGAN SEGOE RESURFACING & UTILITIES  
 MADISON, WI  
 14215



14215  
 TC-2



Legend	
Barricade	+
Arrow Board	→
Direction of Travel	↑
Barrels/Tubes	○ ○ ○ ○



14215  
X-31

SEGOE RD - CROSS SECTIONS

SHEBOYGAN SEGOE RESURFACING WITH UTILITIES

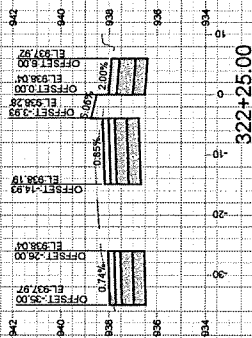
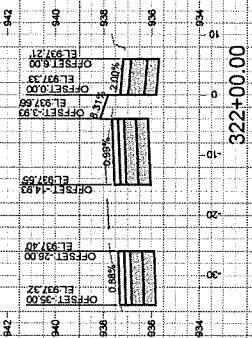
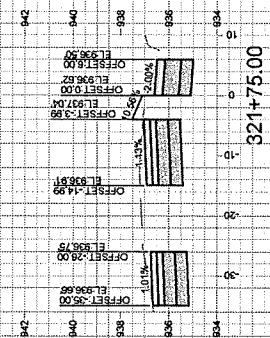
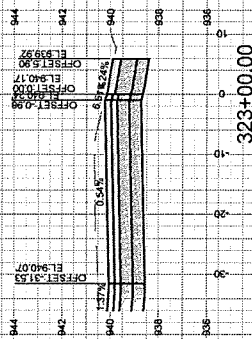
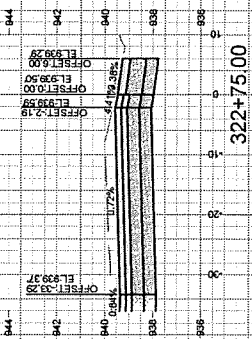
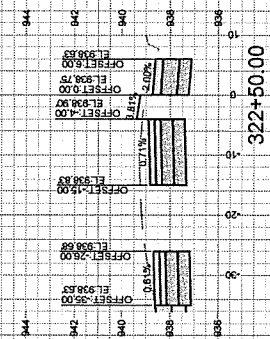
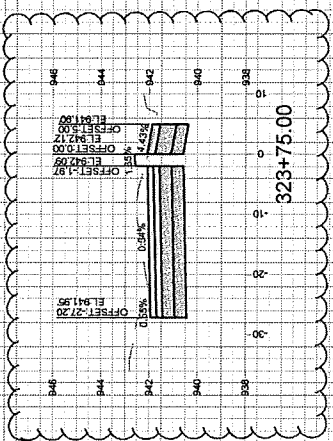
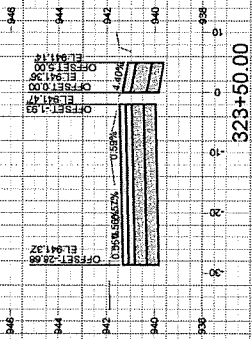
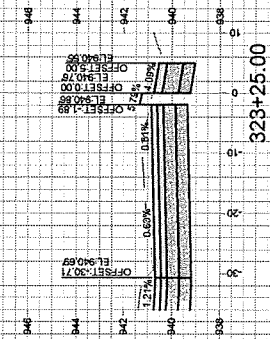
CONTRACT NO: 8693

14215  
MADISON, WI

MARK	REVISION	DATE	BY

Drawn by MFC Date: 12/22/23 2:05 PM Scale: 1" = 20'

14215  
X-31







14215  
X-32

SEGOE RD - CROSS SECTIONS

SHEBOYGAN SEGOE RESURFACING WITH UTILITIES

CONTRACT NO: 8693

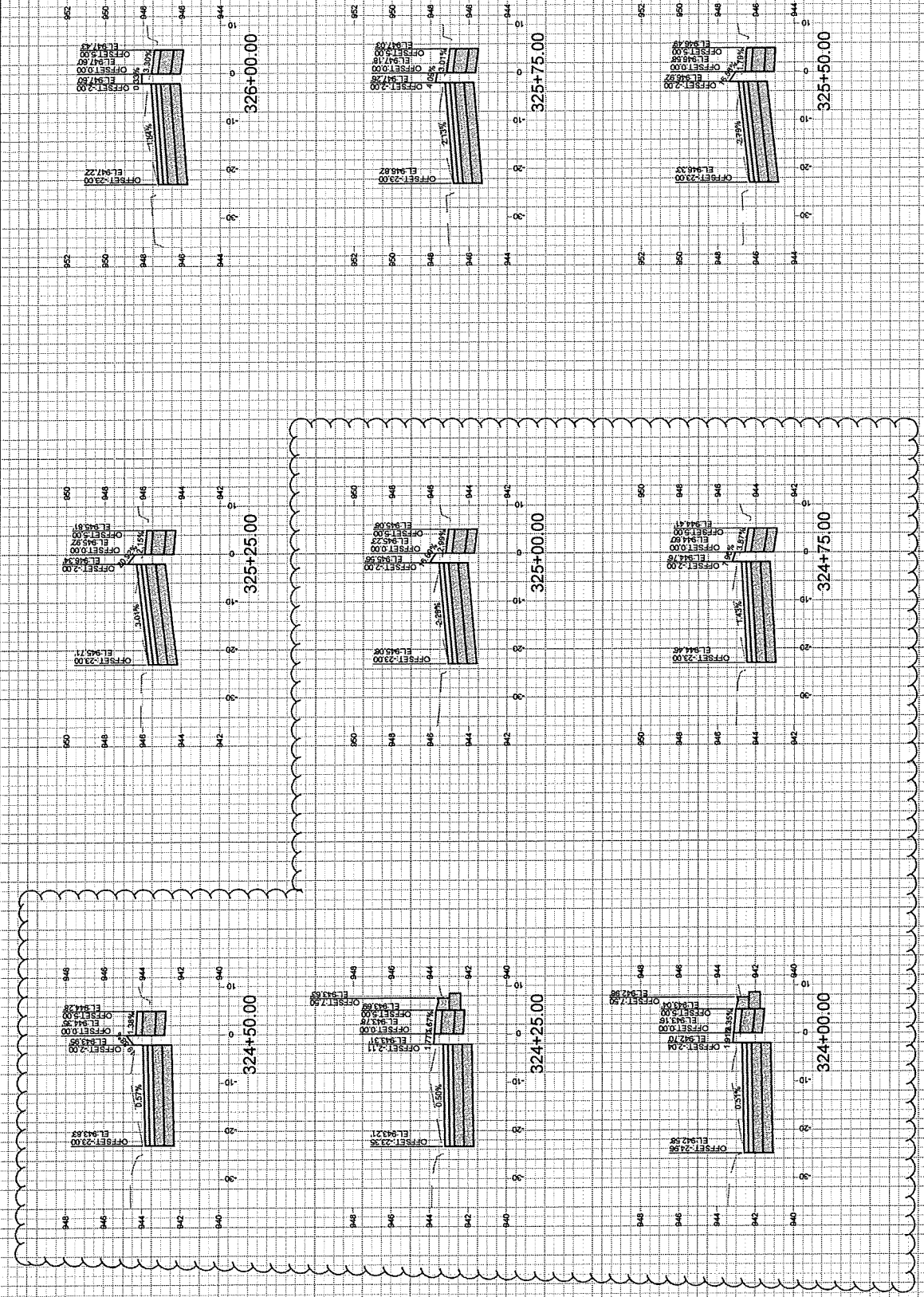
MADISON, WI

14215

DATE	BY	REVISION






14215  
 Drawn By: JFC Date: 12/22/23 2:05 PM  
 Scale: 1" = 20'

REVISION





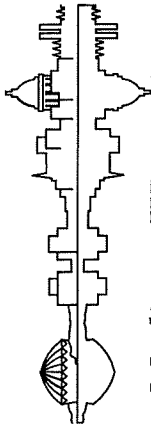
**MAINTENANCE LEGEND:**

-  = TERRACE REQUIRE PRAIRIE GRASS CONTRACT COMPLETE
-  = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
-  = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
-  = CROSSWALK ISLAND OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY
-  = PUBLIC CITY PARK PROPERTY

**AT&T**

**NOT FOR CONSTRUCTION -  
CITY RECORDS ONLY**

**SCALE 1"=250'**



# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

#### PLAN OF PROPOSED IMPROVEMENT

##### SHEBOYGAN AVENUE AND SEGOE ROAD ASSESSMENT DISTRICT - 2024

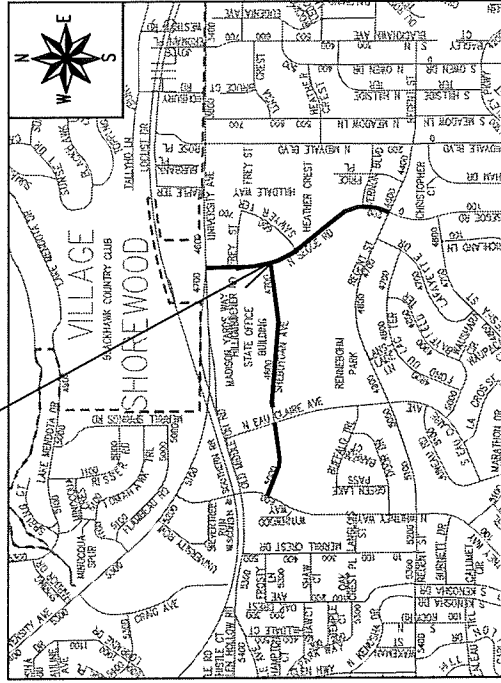
Madison, Wisconsin

#### INDEX OF SHEETS

SHEET NO.	DI-D3	NOTES AND DETAILS
SHEET NO. ECI-E11		EROSION CONTROL PLANS
SHEET NO. P1-P11		STREET PLAN & PROFILES
SHEET NO. G1-G2		SWALE PLANS
SHEET NO. U1-U11		UTILITY PLAN & PROFILES
SHEET NO. U12-U13		SANITARY SEWER SCHEDULE
SHEET NO. U14-U17		STORM SEWER SCHEDULE
SHEET NO. W1-W7		WATER MAIN PLAN & PROFILES
SHEET NO. W8-W11		WATER IMPACT PLAN
SHEET NO. W12		WATER ESTIMATE OF MATERIALS
SHEET NO. E1-E15		ELECTRICAL PLANS
SHEET NO. M1-M14		PAVEMENT MARKING PLANS
SHEET NO. X1-X34		CROSS SECTIONS
SHEET NO. MN-1		MAINTENANCE PLAN (CITY USE ONLY)

CITY PROJECT NO. 14215  
CONTRACT NO. 8693

#### PROJECT LOCATION



EARTHWORK SUMMARY:  
EXCAVATION CUT (MEASURED PLAN QUANTITY)..... 14,700 CY  
ESTIMATED UNDISTRIBUTED UNDERCUT..... 2,900 CY  
TOTAL UNCLASSIFIED EXCAVATION CUT..... 17,600 CY

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SN —
WATER	— W —
BURIED ELECTRIC	— E —
OVERHEAD ELECTRIC	— OH —
POWER POLE	— □ —
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	— [Symbol] —
COMBUSTIBLE FLUIDS	— [Symbol] —

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 OCTOBER 17, 2023 BY THE COMMON COUNCIL OF MADISON, WISCONSIN PUBLIC IMPROVEMENT DESIGN APPROVED BY: <i>Chris Pitzkowski</i> City Engineer Date 12/01/2023	STREET DESIGNED BY:  Dec 1, 2023
	SANITARY SEWER DESIGNED BY:  Dec 1, 2023
TRAFFIC SIGNALS/STREET LIGHTING DESIGNED BY:  Dec 1, 2023	WATER DESIGNED BY:  Dec 1, 2023
STORM SEWER DESIGNED BY:  Dec 1, 2023	PAVEMENT MARKING DESIGNED BY:  Dec 1, 2023

DRG 14215

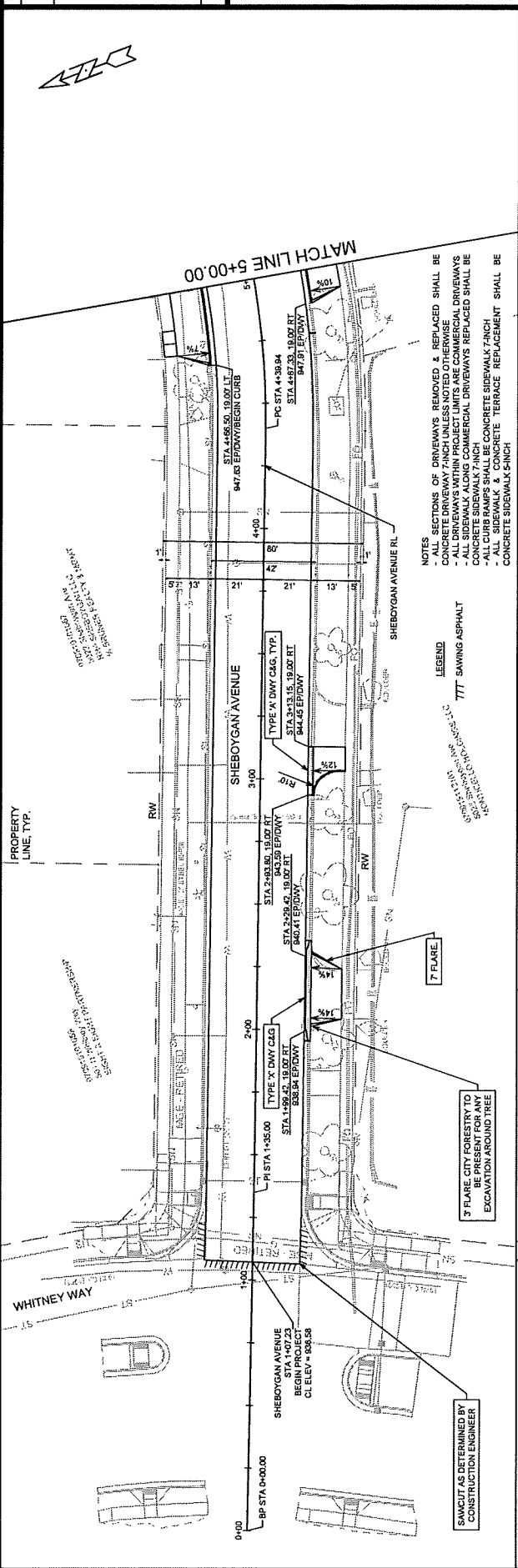
REV	DATE	REVISION

CONTRACT NO: 86933  
 MADISON, WI  
 14215

SHEBOYGAN SEGGE RESURFACING WITH UTILITIES  
 PLAN & PROFILE SHEBOYGAN AVENUE



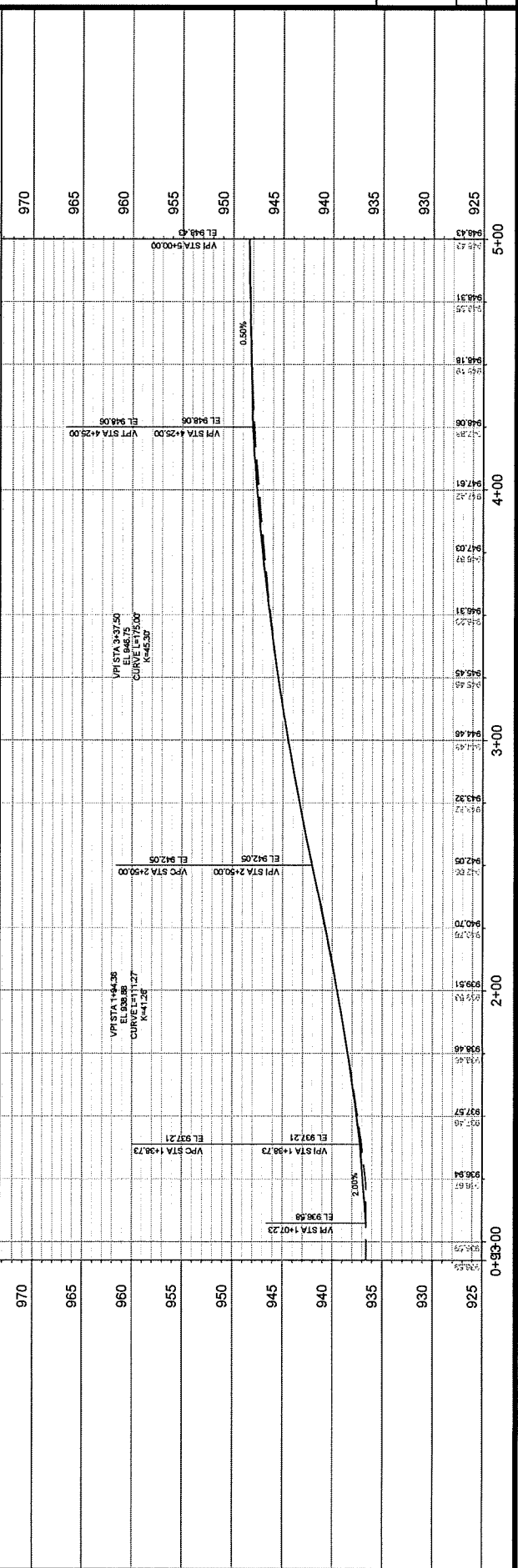
14215  
 P-1



- NOTES
- ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE SIDEWALK 7-INCH TERRAZZO OR OTHERWISE SPECIFIED DRIVEWAYS WITHIN PRAIRIE TOWN COMMERCIAL DRIVEWAYS
  - ALL SIDEWALK ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE SIDEWALK 7-INCH
  - ALL CURB RAMPS SHALL BE CONCRETE SIDEWALK 7-INCH
  - ALL CURB RAMPS SHALL BE CONCRETE TERRAZZO REPLACEMENT SHALL BE CONCRETE SIDEWALK SINCH

LEGEND

TTT SAWING ASPHALT



ORIGINAL

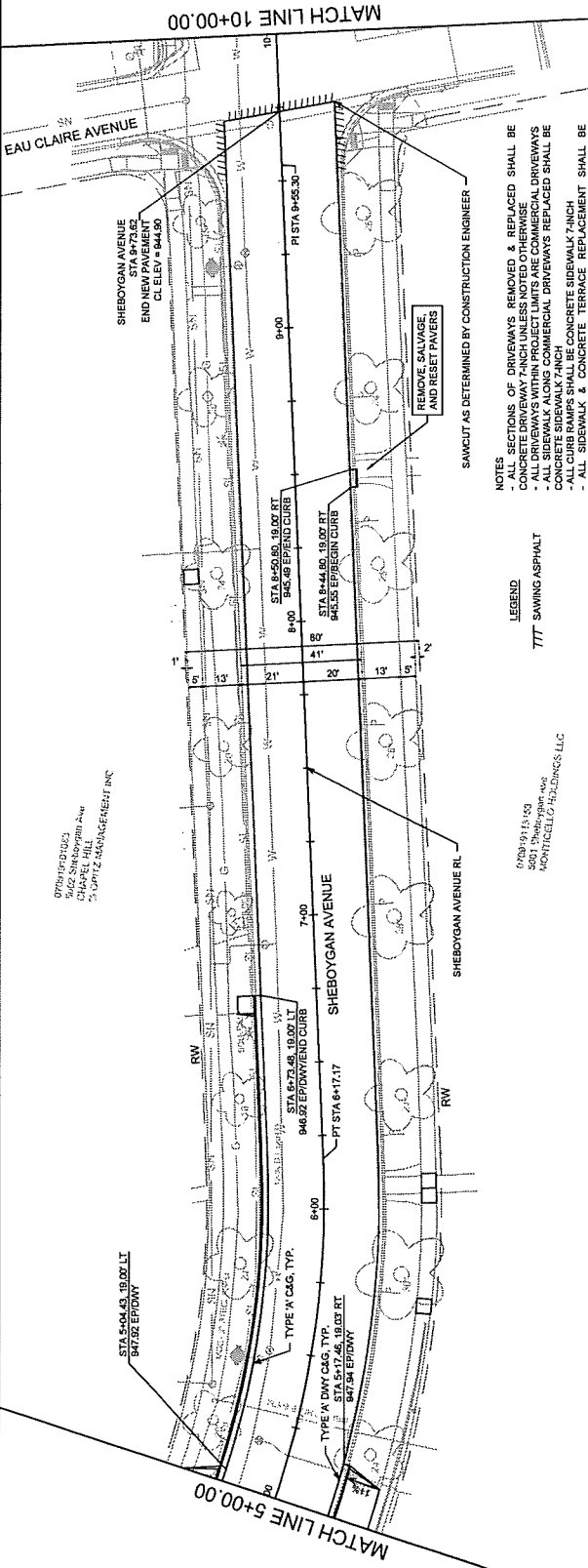
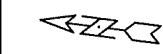
MARK	DATE	BY	REVISION

CONTRACT NO: 8693  
 MADISON, WI  
 14215

SHEBOYGAN SEGOE RESURFACING WITH UTILITIES  
 14215  
 SHEBOYGAN AVENUE



14215  
 P-2



NOTES  
 - ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH UNLESS NOTED OTHERWISE  
 - ALL DRIVEWAYS ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH  
 - ALL CURB RAMPS SHALL BE CONCRETE DRIVEWAY 7-INCH  
 - ALL DRIVEWAY TERRACE REPLACEMENT SHALL BE CONCRETE DRIVEWAY 5-INCH

LEGEND  
 TTT SAWING ASPHALT

DATE: 9/15/03  
 BY: [Signature]  
 MONTELEONE HOLDINGS, LLC

Station	Elevation	Station	Elevation
970	948.43	970	948.43
965	948.31	965	948.31
960	948.20	960	948.20
955	948.08	955	948.08
950	947.96	950	947.96
945	947.84	945	947.84
940	947.72	940	947.72
935	947.60	935	947.60
930	947.48	930	947.48
925	947.36	925	947.36
		920	947.24
		915	947.12
		910	947.00
		905	946.88
		900	946.76
		895	946.64
		890	946.52
		885	946.40
		880	946.28
		875	946.16
		870	946.04
		865	945.92
		860	945.80
		855	945.68
		850	945.56
		845	945.44
		840	945.32
		835	945.20
		830	945.08
		825	944.96
		820	944.84
		815	944.72
		810	944.60
		805	944.48
		800	944.36
		795	944.24
		790	944.12
		785	944.00
		780	943.88
		775	943.76
		770	943.64
		765	943.52
		760	943.40
		755	943.28
		750	943.16
		745	943.04
		740	942.92
		735	942.80
		730	942.68
		725	942.56
		720	942.44
		715	942.32
		710	942.20
		705	942.08
		700	941.96
		695	941.84
		690	941.72
		685	941.60
		680	941.48
		675	941.36
		670	941.24
		665	941.12
		660	941.00
		655	940.88
		650	940.76
		645	940.64
		640	940.52
		635	940.40
		630	940.28
		625	940.16
		620	940.04
		615	939.92
		610	939.80
		605	939.68
		600	939.56
		595	939.44
		590	939.32
		585	939.20
		580	939.08
		575	938.96
		570	938.84
		565	938.72
		560	938.60
		555	938.48
		550	938.36
		545	938.24
		540	938.12
		535	938.00
		530	937.88
		525	937.76
		520	937.64
		515	937.52
		510	937.40
		505	937.28
		500	937.16
		495	937.04
		490	936.92
		485	936.80
		480	936.68
		475	936.56
		470	936.44
		465	936.32
		460	936.20
		455	936.08
		450	935.96
		445	935.84
		440	935.72
		435	935.60
		430	935.48
		425	935.36
		420	935.24
		415	935.12
		410	935.00
		405	934.88
		400	934.76
		395	934.64
		390	934.52
		385	934.40
		380	934.28
		375	934.16
		370	934.04
		365	933.92
		360	933.80
		355	933.68
		350	933.56
		345	933.44
		340	933.32
		335	933.20
		330	933.08
		325	932.96
		320	932.84
		315	932.72
		310	932.60
		305	932.48
		300	932.36
		295	932.24
		290	932.12
		285	932.00
		280	931.88
		275	931.76
		270	931.64
		265	931.52
		260	931.40
		255	931.28
		250	931.16
		245	931.04
		240	930.92
		235	930.80
		230	930.68
		225	930.56
		220	930.44
		215	930.32
		210	930.20
		205	930.08
		200	929.96
		195	929.84
		190	929.72
		185	929.60
		180	929.48
		175	929.36
		170	929.24
		165	929.12
		160	929.00
		155	928.88
		150	928.76
		145	928.64
		140	928.52
		135	928.40
		130	928.28
		125	928.16
		120	928.04
		115	927.92
		110	927.80
		105	927.68
		100	927.56
		995	927.44
		990	927.32
		985	927.20
		980	927.08
		975	926.96
		970	926.84

MATCH LINE 5+00.00  
 MATCH LINE 10+00.00



ORIGINAL

NO.	DATE	REVISION
1	11/11/2023	3.24 PM
2	11/11/2023	3.24 PM
3	11/11/2023	3.24 PM
4	11/11/2023	3.24 PM
5	11/11/2023	3.24 PM
6	11/11/2023	3.24 PM
7	11/11/2023	3.24 PM
8	11/11/2023	3.24 PM
9	11/11/2023	3.24 PM
10	11/11/2023	3.24 PM

14215

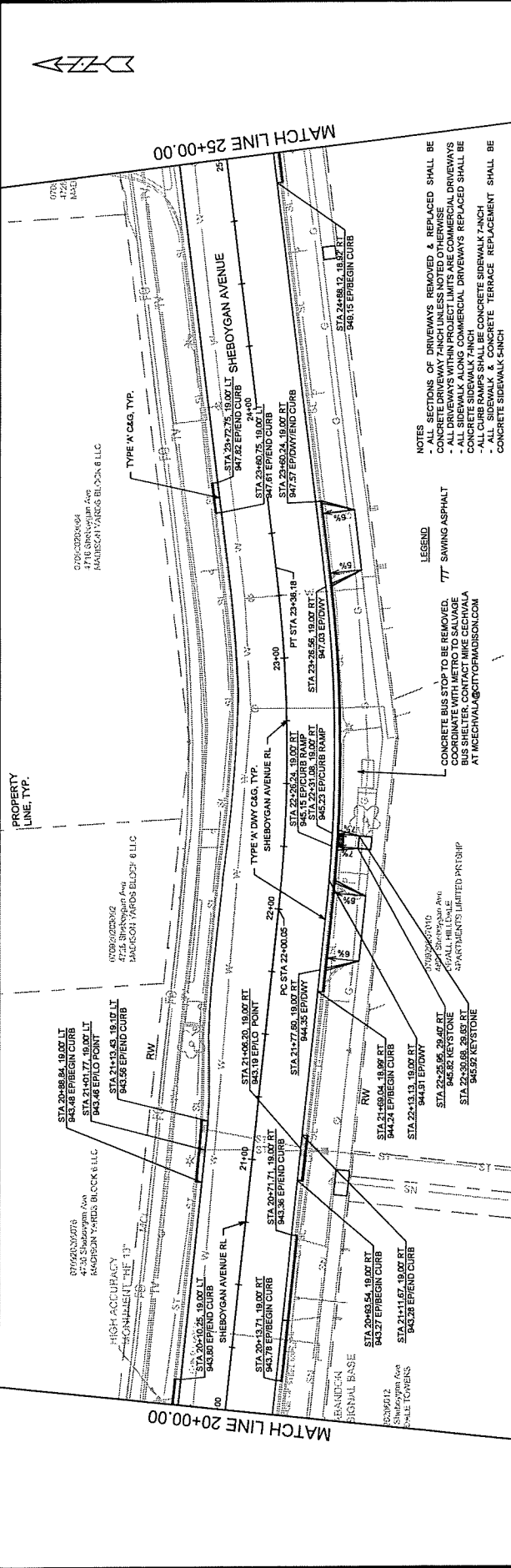
CONTRACT NO: 8693

SHEBOYGAN SEGE RESURFACING WITH UTILITIES



14215

P-5



Station	Vertical Curve Data	Grade (%)
970		
965		
960		
955		
950	VPI STA 24+32.35 VPI STA 24+64.75 VPI STA 24+97.15	0.80% 0.80% 0.80%
945		
940		
935		
930		
925		
25+00		
24+00		
23+00		
22+00	VPI STA 21+93.57 VPI STA 21+93.57 VPI STA 21+93.57	1.71% 1.71% 1.71%
21+00		
970		
965		
960	VPI STA 21+50.00 VPI STA 21+50.00 VPI STA 21+50.00	0.50% 0.50% 0.50%
955		
950		
945		
940		
935		
930		
925		
21+00		

NOTES

- SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE DRIVEWAY 7 INCH UNLESS NOTED OTHERWISE
- ALL DRIVEWAYS WITHIN PROJECT LIMITS ARE COMMERCIAL DRIVEWAYS
- ALL SIDEWALKS ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE SIDEWALK 7 INCH
- ALL CURB RAMPS SHALL BE CONCRETE SIDEWALK 7 INCH
- ALL SIDEWALK & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 5 INCH

LEGEND

- 7" SAVING ASPHALT

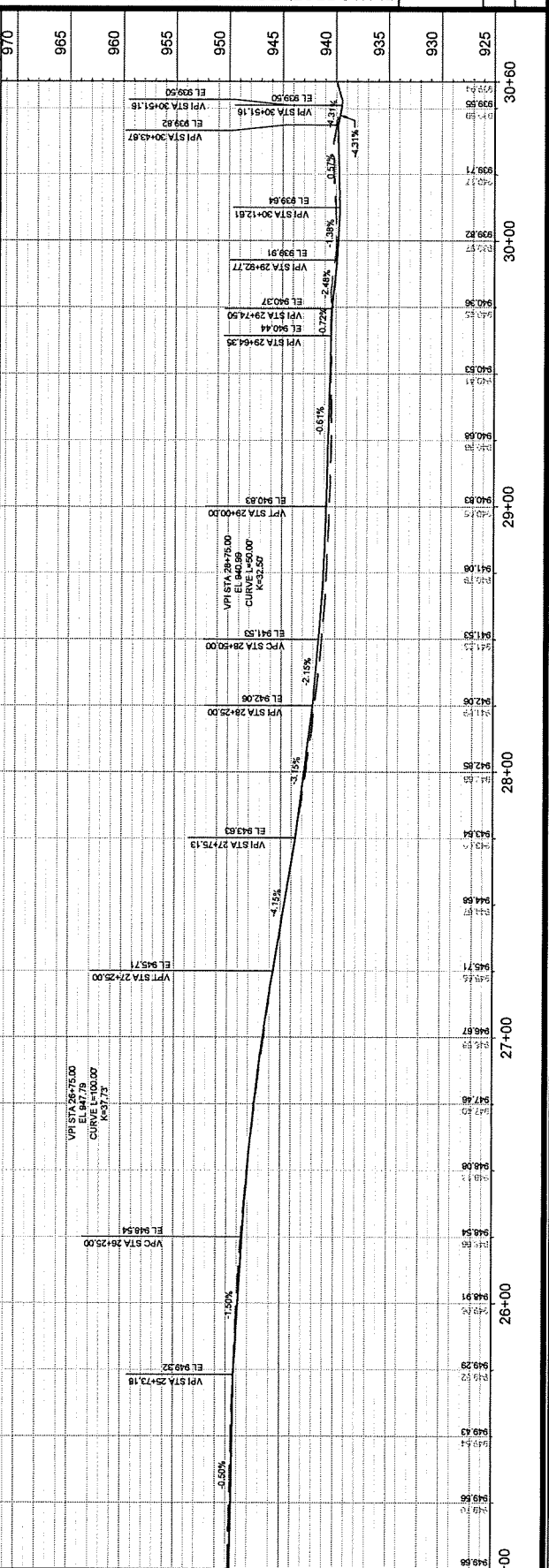
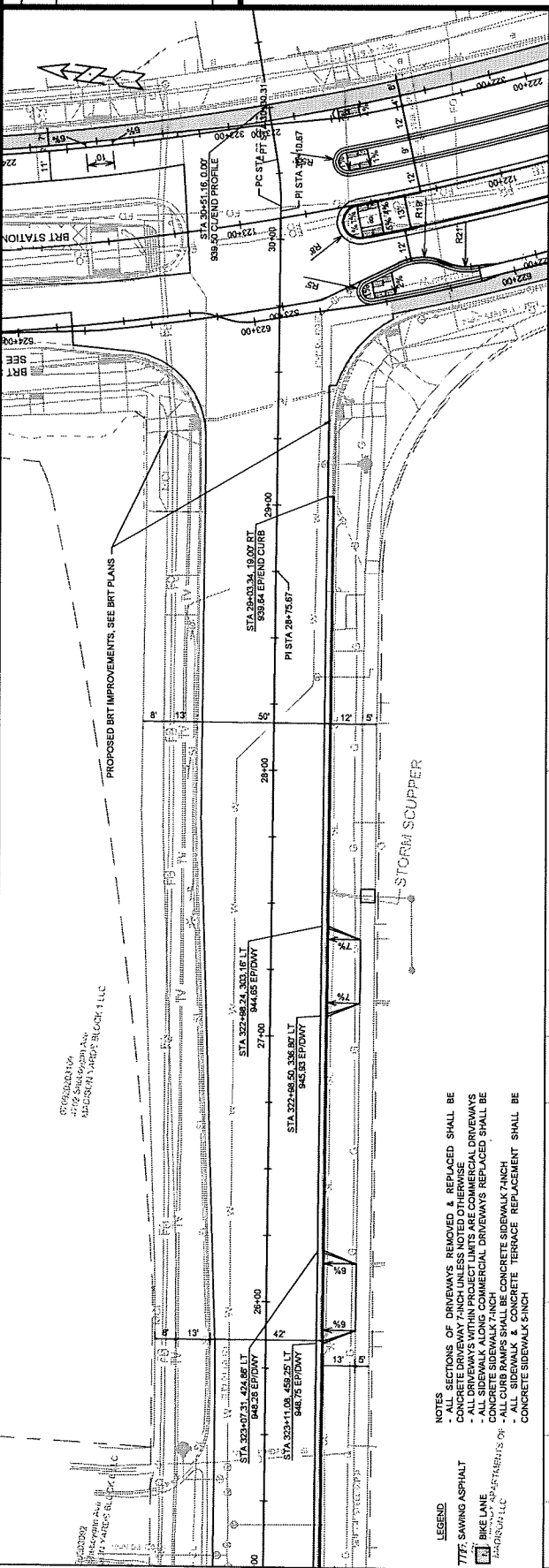
CONCRETE BUS STOP TO BE REMOVED  
COORDINATE WITH METRO TO SALVAGE  
BUS SHELTER, CONTACT MIKE CECHEVALA  
AT MCECHVALA@CITYOFMADISON.COM

C:\D:\032023\04  
1716 SHANNON AVE  
MADISON YARDS BLOCK 6 LLC

C:\D:\032023\04  
1716 SHANNON AVE  
MADISON YARDS BLOCK 6 LLC

C:\D:\032023\04  
1716 SHANNON AVE  
MADISON YARDS BLOCK 6 LLC

C:\D:\032023\04  
1716 SHANNON AVE  
MADISON YARDS BLOCK 6 LLC



- LEGEND**
- 7/7F SAWING ASPHALT
  - BIKE LANE
  - CONCRETE DRIVEWAY
  - CONCRETE SIDEWALK
  - CONCRETE TERRACE
- NOTES**
- ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH UNLESS NOTED OTHERWISE
  - ALL SIDEWALKS ALONG COMMERCIAL DRIVEWAYS SHALL BE CONCRETE SIDEWALK 7-INCH
  - ALL CURB RAMPS SHALL BE CONCRETE SIDEWALK 7-INCH
  - ALL CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 5-INCH





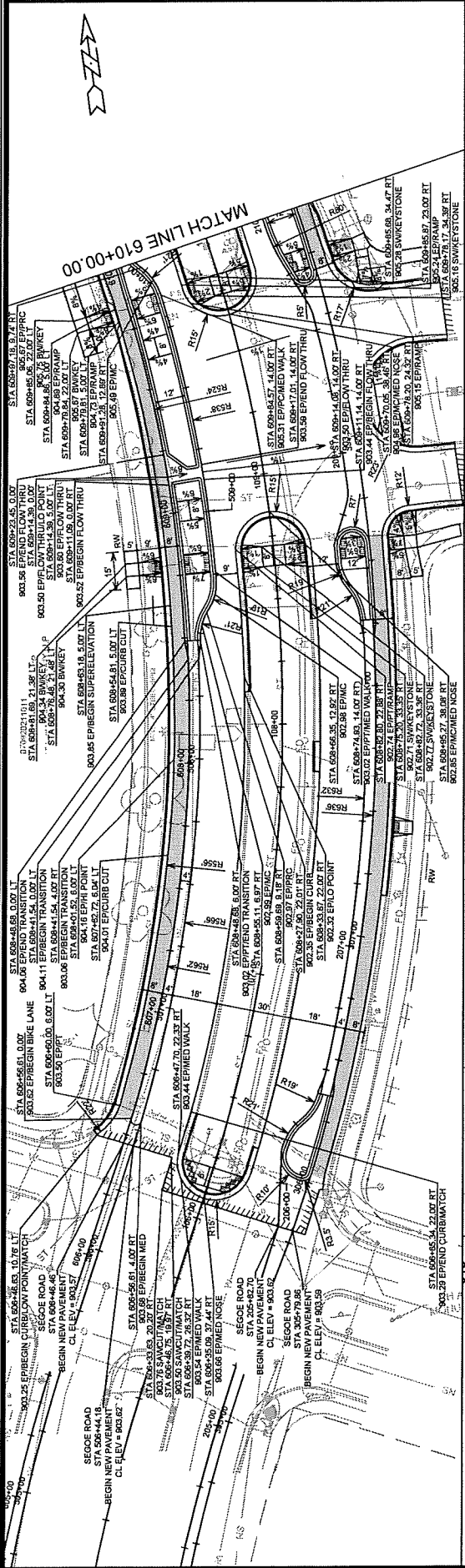
14215  
P-7A

PLAN & PROFILE SEGOE RD SOUTHBOUND GRADES  
SHEBOYGAN SEGOE RESURFACING WITH UTILITIES

CONTRACT NO: 8693

MADISON, WI  
14215

DATE	REVISION
11/11/11	
11/11/11	
11/11/11	
11/11/11	
11/11/11	



Station	Elevation	Notes
910	EL 903.62	VPI STA 606+44.18
905	EL 903.62	VPI STA 606+53.81
900	EL 903.62	VPI STA 606+63.46
895	EL 903.62	VPI STA 606+73.11
920	EL 903.62	VPI STA 606+82.76
915	EL 903.62	VPI STA 606+92.41
910	EL 903.62	VPI STA 606+102.06
905	EL 903.62	VPI STA 606+111.71
900	EL 903.62	VPI STA 606+121.36
895	EL 903.62	VPI STA 606+131.01
910	EL 903.62	VPI STA 606+140.66
905	EL 903.62	VPI STA 606+150.31
900	EL 903.62	VPI STA 606+159.96
895	EL 903.62	VPI STA 606+169.61
910	EL 903.62	VPI STA 606+179.26
905	EL 903.62	VPI STA 606+188.91
900	EL 903.62	VPI STA 606+198.56
895	EL 903.62	VPI STA 606+208.21
910	EL 903.62	VPI STA 606+217.86
905	EL 903.62	VPI STA 606+227.51
900	EL 903.62	VPI STA 606+237.16
895	EL 903.62	VPI STA 606+246.81
910	EL 903.62	VPI STA 606+256.46
905	EL 903.62	VPI STA 606+266.11
900	EL 903.62	VPI STA 606+275.76
895	EL 903.62	VPI STA 606+285.41
910	EL 903.62	VPI STA 606+295.06
905	EL 903.62	VPI STA 606+304.71
900	EL 903.62	VPI STA 606+314.36
895	EL 903.62	VPI STA 606+324.01
910	EL 903.62	VPI STA 606+333.66
905	EL 903.62	VPI STA 606+343.31
900	EL 903.62	VPI STA 606+352.96
895	EL 903.62	VPI STA 606+362.61
910	EL 903.62	VPI STA 606+372.26
905	EL 903.62	VPI STA 606+381.91
900	EL 903.62	VPI STA 606+391.56
895	EL 903.62	VPI STA 606+401.21
910	EL 903.62	VPI STA 606+410.86
905	EL 903.62	VPI STA 606+420.51
900	EL 903.62	VPI STA 606+430.16
895	EL 903.62	VPI STA 606+439.81
910	EL 903.62	VPI STA 606+449.46
905	EL 903.62	VPI STA 606+459.11
900	EL 903.62	VPI STA 606+468.76
895	EL 903.62	VPI STA 606+478.41
910	EL 903.62	VPI STA 606+488.06
905	EL 903.62	VPI STA 606+497.71
900	EL 903.62	VPI STA 606+507.36
895	EL 903.62	VPI STA 606+517.01
910	EL 903.62	VPI STA 606+526.66
905	EL 903.62	VPI STA 606+536.31
900	EL 903.62	VPI STA 606+545.96
895	EL 903.62	VPI STA 606+555.61
910	EL 903.62	VPI STA 606+565.26
905	EL 903.62	VPI STA 606+574.91
900	EL 903.62	VPI STA 606+584.56
895	EL 903.62	VPI STA 606+594.21
910	EL 903.62	VPI STA 606+603.86
905	EL 903.62	VPI STA 606+613.51
900	EL 903.62	VPI STA 606+623.16
895	EL 903.62	VPI STA 606+632.81
910	EL 903.62	VPI STA 606+642.46
905	EL 903.62	VPI STA 606+652.11
900	EL 903.62	VPI STA 606+661.76
895	EL 903.62	VPI STA 606+671.41
910	EL 903.62	VPI STA 606+681.06
905	EL 903.62	VPI STA 606+690.71
900	EL 903.62	VPI STA 606+700.36
895	EL 903.62	VPI STA 606+710.01
910	EL 903.62	VPI STA 606+719.66
905	EL 903.62	VPI STA 606+729.31
900	EL 903.62	VPI STA 606+738.96
895	EL 903.62	VPI STA 606+748.61
910	EL 903.62	VPI STA 606+758.26
905	EL 903.62	VPI STA 606+767.91
900	EL 903.62	VPI STA 606+777.56
895	EL 903.62	VPI STA 606+787.21
910	EL 903.62	VPI STA 606+796.86
905	EL 903.62	VPI STA 606+806.51
900	EL 903.62	VPI STA 606+816.16
895	EL 903.62	VPI STA 606+825.81
910	EL 903.62	VPI STA 606+835.46
905	EL 903.62	VPI STA 606+845.11
900	EL 903.62	VPI STA 606+854.76
895	EL 903.62	VPI STA 606+864.41
910	EL 903.62	VPI STA 606+874.06
905	EL 903.62	VPI STA 606+883.71
900	EL 903.62	VPI STA 606+893.36
895	EL 903.62	VPI STA 606+903.01
910	EL 903.62	VPI STA 606+912.66
905	EL 903.62	VPI STA 606+922.31
900	EL 903.62	VPI STA 606+931.96
895	EL 903.62	VPI STA 606+941.61
910	EL 903.62	VPI STA 606+951.26
905	EL 903.62	VPI STA 606+960.91
900	EL 903.62	VPI STA 606+970.56
895	EL 903.62	VPI STA 606+980.21
910	EL 903.62	VPI STA 606+989.86
905	EL 903.62	VPI STA 606+999.51
900	EL 903.62	VPI STA 607+09.16
895	EL 903.62	VPI STA 607+18.81
910	EL 903.62	VPI STA 607+28.46
905	EL 903.62	VPI STA 607+38.11
900	EL 903.62	VPI STA 607+47.76
895	EL 903.62	VPI STA 607+57.41
910	EL 903.62	VPI STA 607+67.06
905	EL 903.62	VPI STA 607+76.71
900	EL 903.62	VPI STA 607+86.36
895	EL 903.62	VPI STA 607+96.01
910	EL 903.62	VPI STA 608+05.66
905	EL 903.62	VPI STA 608+15.31
900	EL 903.62	VPI STA 608+24.96
895	EL 903.62	VPI STA 608+34.61
910	EL 903.62	VPI STA 608+44.26
905	EL 903.62	VPI STA 608+53.91
900	EL 903.62	VPI STA 608+63.56
895	EL 903.62	VPI STA 608+73.21
910	EL 903.62	VPI STA 608+82.86
905	EL 903.62	VPI STA 608+92.51
900	EL 903.62	VPI STA 609+02.16
895	EL 903.62	VPI STA 609+11.81
910	EL 903.62	VPI STA 609+21.46
905	EL 903.62	VPI STA 609+31.11
900	EL 903.62	VPI STA 609+40.76
895	EL 903.62	VPI STA 609+50.41
910	EL 903.62	VPI STA 609+60.06
905	EL 903.62	VPI STA 609+69.71
900	EL 903.62	VPI STA 609+79.36
895	EL 903.62	VPI STA 609+89.01
910	EL 903.62	VPI STA 609+98.66
905	EL 903.62	VPI STA 610+08.31









14215  
P-8B

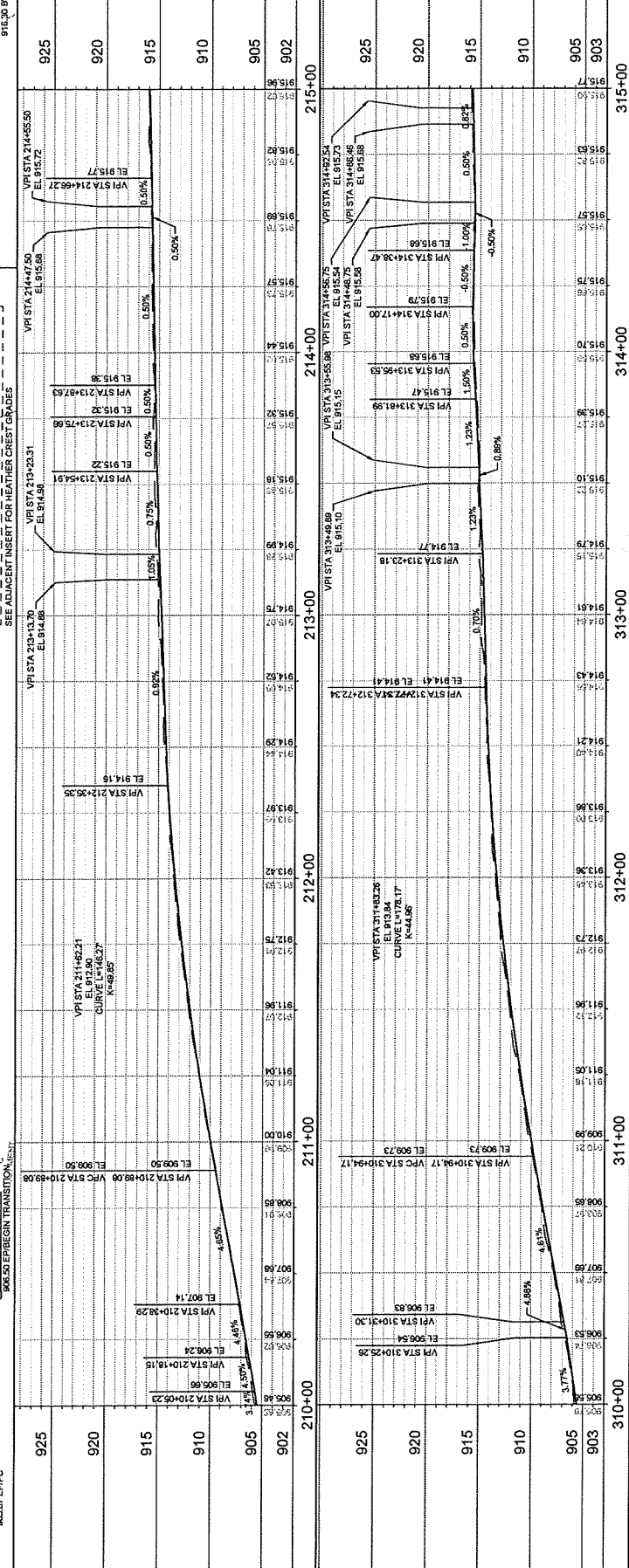
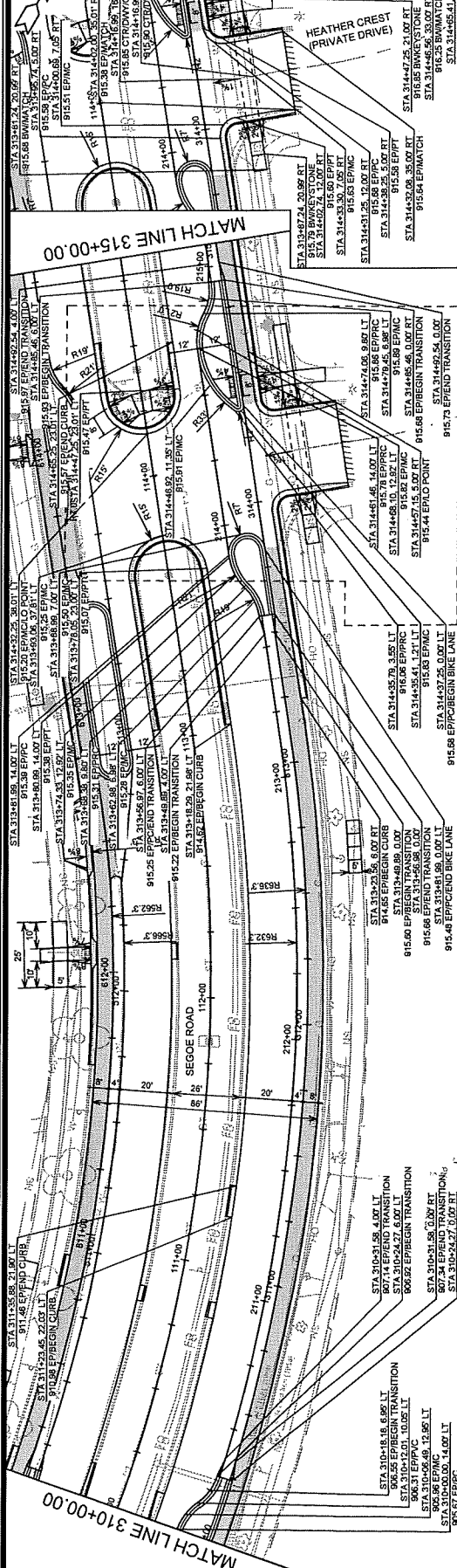
PLAN & PROFILE SEGOE RD NORTHBOUND GRADES

SHEBOGAN SEGOE RESURFACING WITH UTILITIES

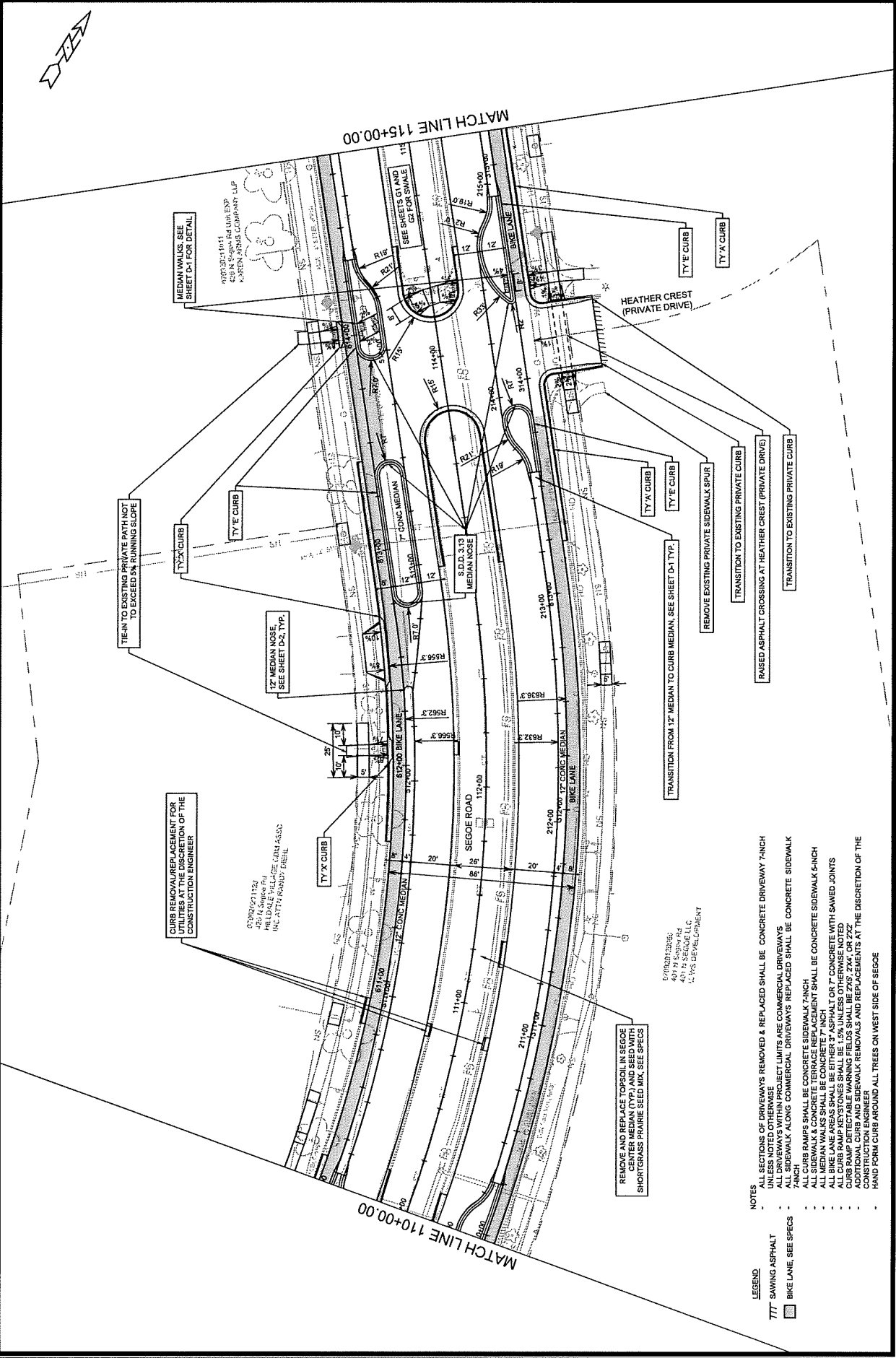
CONTRACT NO: 8693

MADISON, WI  
14215

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SEE ADJACENT INSERT FOR HEATHER CREST GRADES



**NOTES**  
 - ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH UNLESS NOTED OTHERWISE  
 - ALL DRIVEWAYS WITHIN PROJECT LIMITS ARE COMMERCIAL DRIVEWAYS  
 - ALL DRIVEWAYS ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE SIDEWALK 7-INCH  
 - ALL CURB RAMPS SHALL BE CONCRETE SIDEWALK 7-INCH  
 - ALL SIDEWALK & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 6-INCH  
 - ALL SIDEWALK & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE WITH SAWED JOINTS  
 - ALL BIKE LANE AREAS SHALL BE EITHER 3" ASPHALT OR 7" CONCRETE WITH SAWED JOINTS  
 - ALL CURB RAMP KEYSTONES SHALL BE 1.5% UNLESS OTHERWISE NOTED  
 - CURB RAMP DETECTABLE WARNING FIELDS SHALL BE 2'0" x 2'0" OR 2'2" x 2'2" UNLESS OTHERWISE NOTED  
 - ALL SIDEWALK REMOVALS AND REPLACEMENTS AT THE DISCRETION OF THE CONSTRUCTION ENGINEER  
 - HAND FORM CURB AROUND ALL TREES ON WEST SIDE OF SEGOE

**LEGEND**  
 7777 SAWING ASPHALT  
 BIKE LANE, SEE SPECS

REMOVE AND REPLACE TOPSOIL IN SEGOE CENTER MEDIAN (TYP.) AND SEED WITH SHORTGRASS PRairie SEED MIX, SEE SPECS

REMOVE EXISTING PRIVATE SIDEWALK SPUR  
 TRANSITION TO EXISTING PRIVATE CURB  
 RAISED ASPHALT CROSSING AT HEATHER CREST (PRIVATE DRIVE)  
 TRANSITION TO EXISTING PRIVATE CURB

TRANSITION FROM 12" MEDIAN TO CURB MEDIAN, SEE SHEET D-1 TYP.  
 TRANSITION TO EXISTING PRIVATE CURB

TIE-IN TO EXISTING PRIVATE PATH NOT TO EXCEED 5% RUNNING SLOPE  
 TY'E CURB

12" MEDIAN NOSE  
 SEE SHEET D-2, TYP.  
 TY'E CURB

CURB REMOVAL/REPLACEMENT FOR UTILITIES AT THE DISCRETION OF THE CONSTRUCTION ENGINEER  
 TY'E CURB

MEDIAN WALKS, SEE SHEET D-1 FOR DETAIL  
 SEE SHEETS G1 AND G2 FOR SWALE 115

6700210280  
 401179 Segrave Rd  
 401179 Segrave Rd  
 L. W. SEGUE LLC  
 L. W. SEGUE LLC

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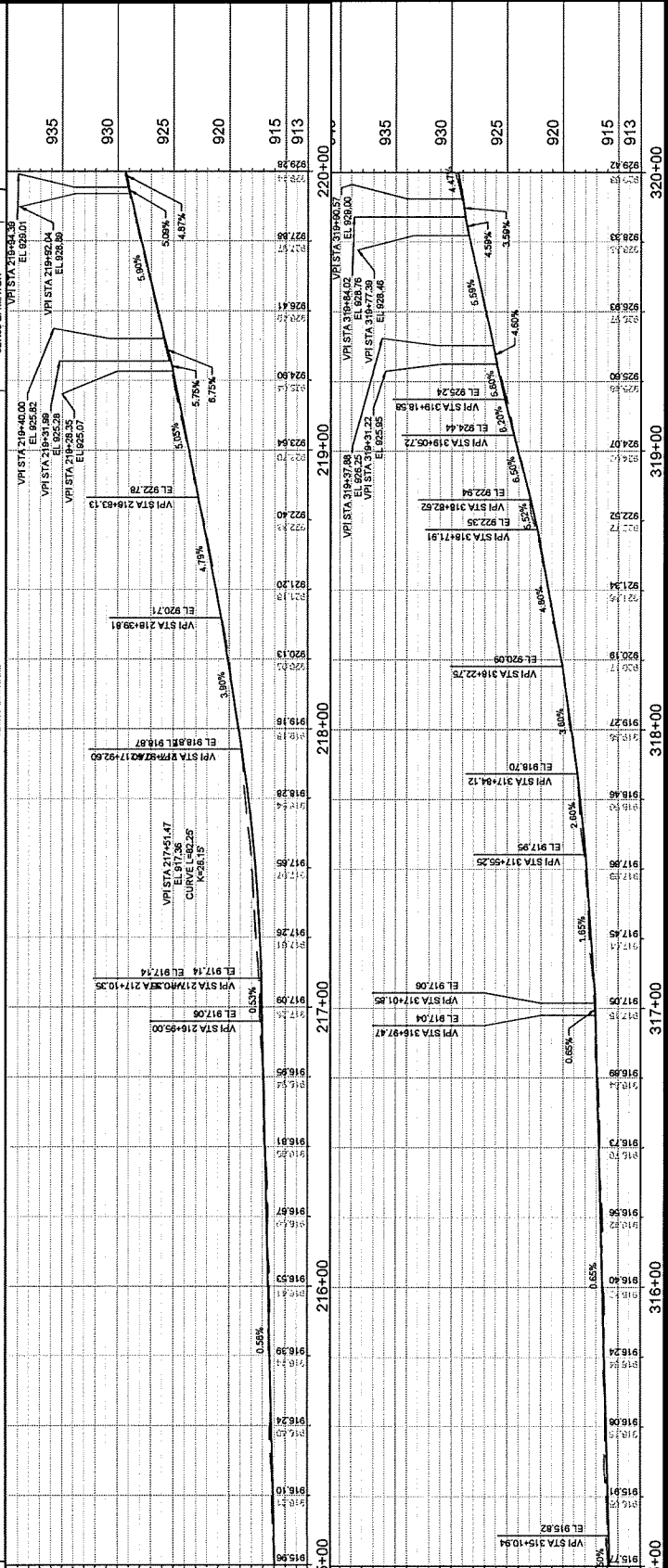
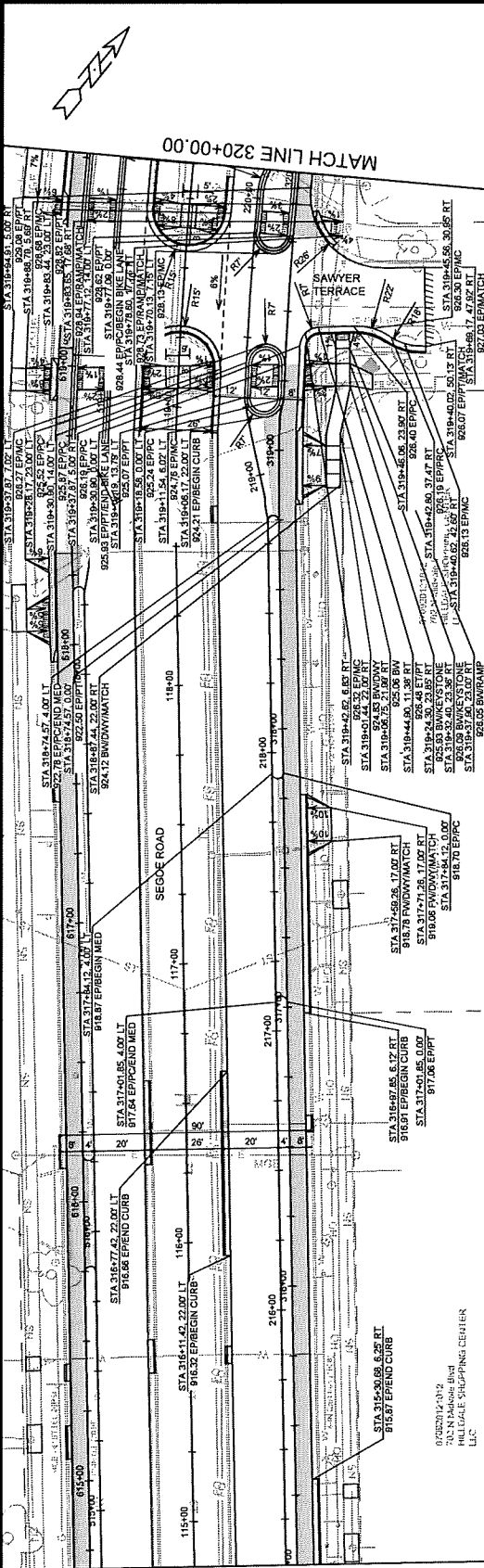


PLAN & PROFILE SEGGE RD NORTHBOUND GRADES  
MADISON, WI  
14215

CONTRACT NO: 8693

14215  
14215

NO.	DATE	REVISION
1	11/11/11	ISSUED FOR PERMITS
2	11/11/11	ISSUED FOR PERMITS
3	11/11/11	ISSUED FOR PERMITS
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MATCH LINE 315+00.00

04/20/14 14:12  
HILLDALE SHOPPING CENTER  
LLC

MATCH LINE 320+00.00

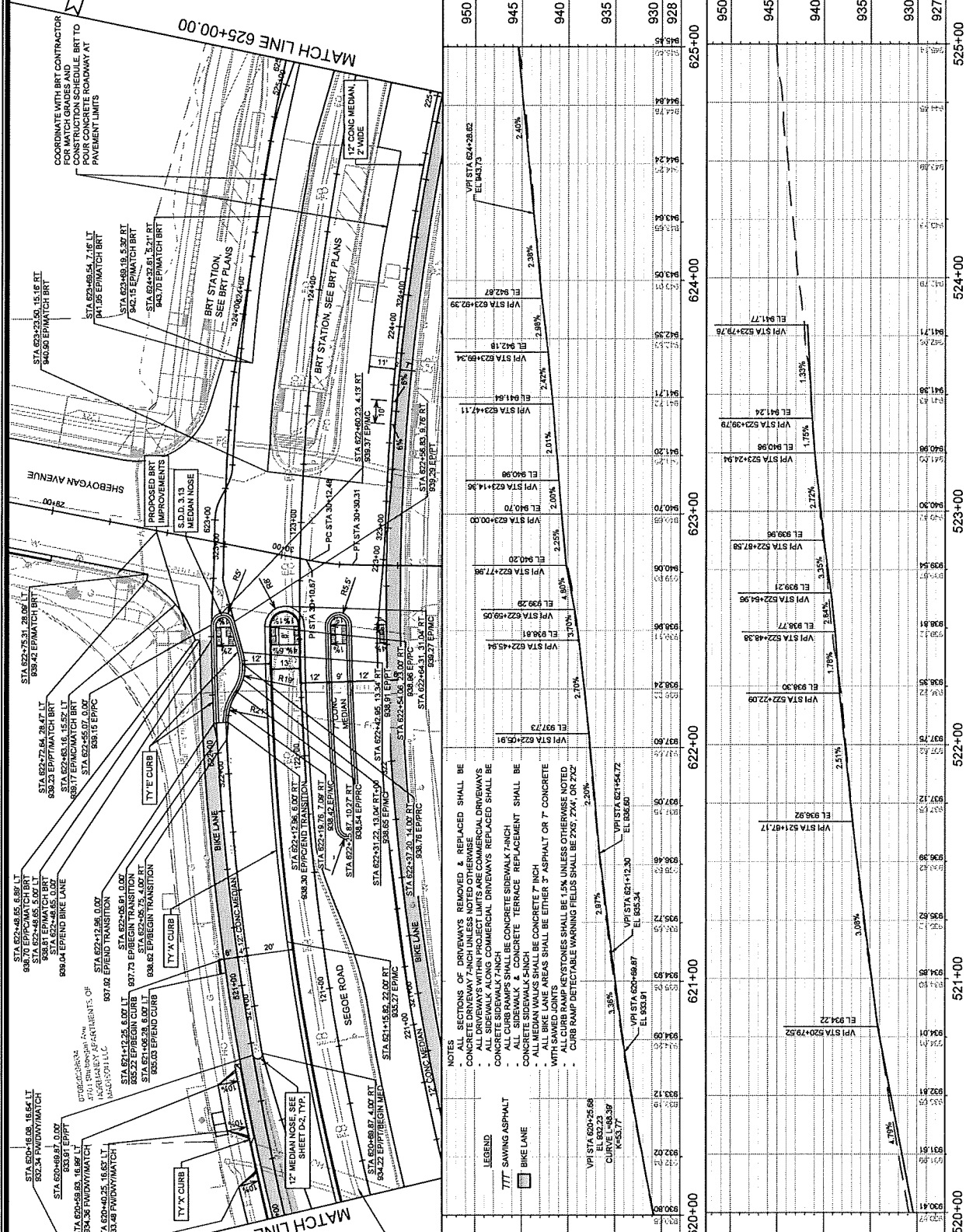
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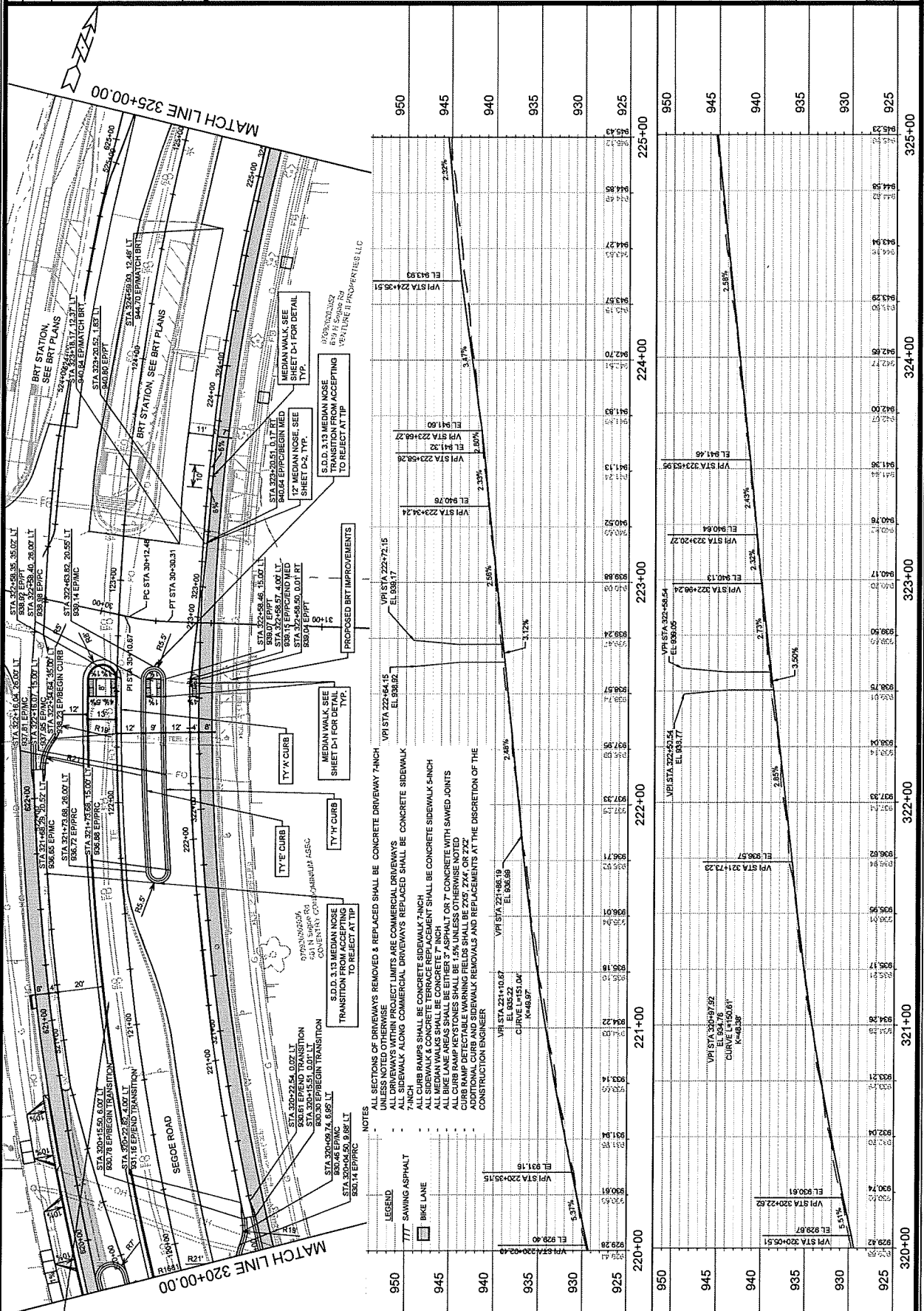


**PLAN & PROFILE SEGOE RD SOUTHBOUND**  
**SHEBOYGAN SEGOE RESURFACING WITH UTILITIES**





14215 P-10B



REMOVE AND REPLACE TOPSOIL IN SEGOE CENTER MEDIAN (TYP.) SOIL TO BE SHEBOYGAN AND SEED WITH SHORTGRASS PRAIRIE SEED MIX. SEE SPECS.

LEGEND  
 TYP SAWING ASPHALT  
 BIKE LANE  
 S.D.D. 3.13 MEDIAN NOSE TRANSITION FROM ACCEPTING TO REFLECT AT TIP  
 PROPOSED BRT IMPROVEMENTS  
 TY' H CURB  
 TY' E CURB  
 MEDIAN WALK SEE SHEET D-1 FOR DETAIL TYP.  
 S.D.D. 3.13 MEDIAN NOSE TRANSITION FROM ACCEPTING TO REFLECT AT TIP  
 50' N SIDEWAY CONVENTION CONSTRUCTION

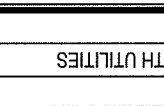
NOTES  
 ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH UNLESS NOTED OTHERWISE  
 ALL DRIVEWAYS WITHIN PROJECT LIMITS ARE COMMERCIAL DRIVEWAYS  
 ALL DRIVEWAYS ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH UNLESS NOTED OTHERWISE  
 ALL CURB RAMP SHALL BE CONCRETE SIDEWALK 7-INCH  
 ALL SIDEWALK & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 5-INCH  
 ALL BIKE LANE SHALL BE CONCRETE 7-INCH UNLESS NOTED OTHERWISE  
 ALL BIKE LANE AREAS SHALL BE CONCRETE 7-INCH UNLESS NOTED OTHERWISE  
 ALL CURB RAMP DETECTABLE WARNING FIELDS SHALL BE 2'X6', 2'X4', OR 2'X2'  
 CONSTRUCTION CURB AND SIDEWALK REMOVALS AND REPLACEMENTS AT THE DISCRETION OF THE CONSULTING ENGINEER

Station	Elevation	Grade
320+00	929.82	5.51%
320+10	929.81	
320+20	929.81	
320+30	929.81	
320+40	929.81	
320+50	929.81	
320+60	929.81	
320+70	929.81	
320+80	929.81	
320+90	929.81	
321+00	929.81	
321+10	929.81	
321+20	929.81	
321+30	929.81	
321+40	929.81	
321+50	929.81	
321+60	929.81	
321+70	929.81	
321+80	929.81	
321+90	929.81	
322+00	929.81	
322+10	929.81	
322+20	929.81	
322+30	929.81	
322+40	929.81	
322+50	929.81	
322+60	929.81	
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323+80	929.81	
323+90	929.81	
324+00	929.81	
324+10	929.81	
324+20	929.81	
324+30	929.81	
324+40	929.81	
324+50	929.81	
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324+70	929.81	
324+80	929.81	
324+90	929.81	
325+00	929.81	

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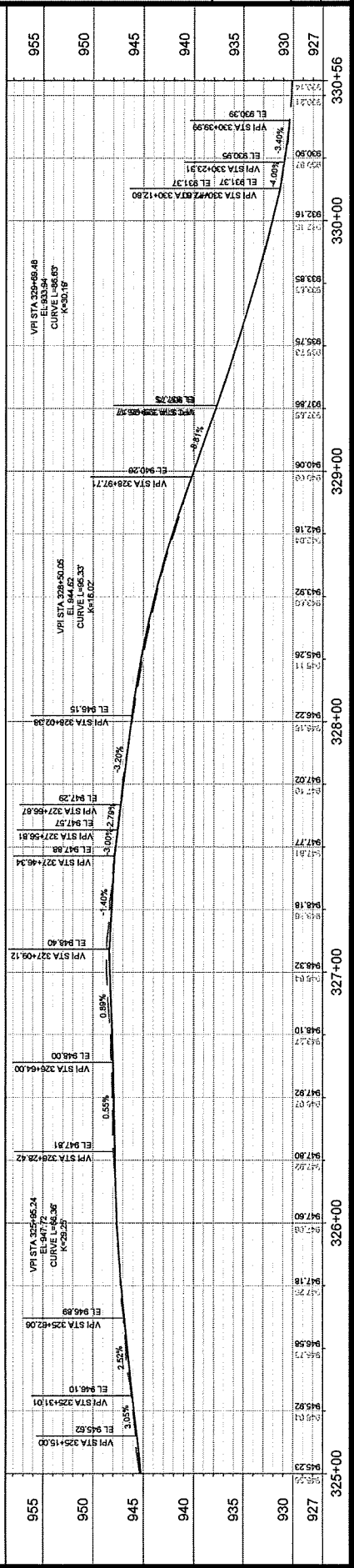
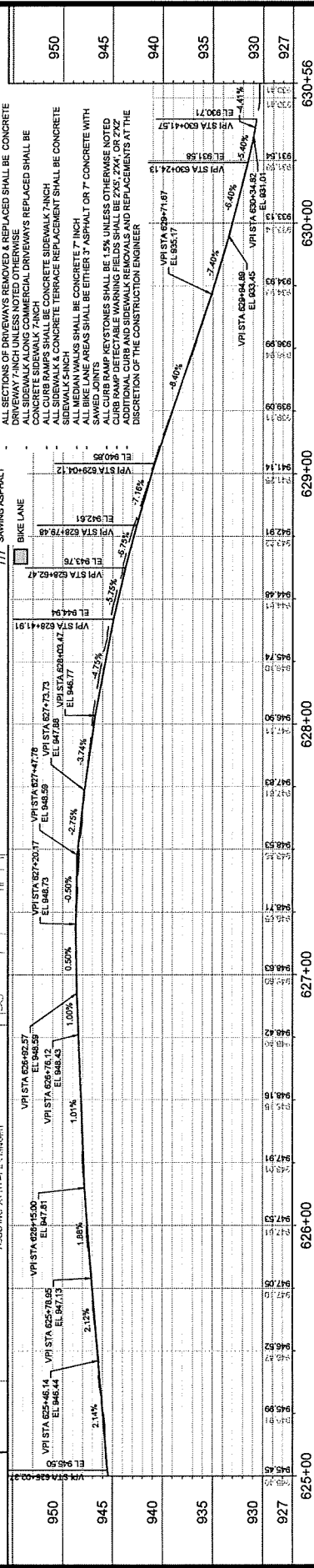
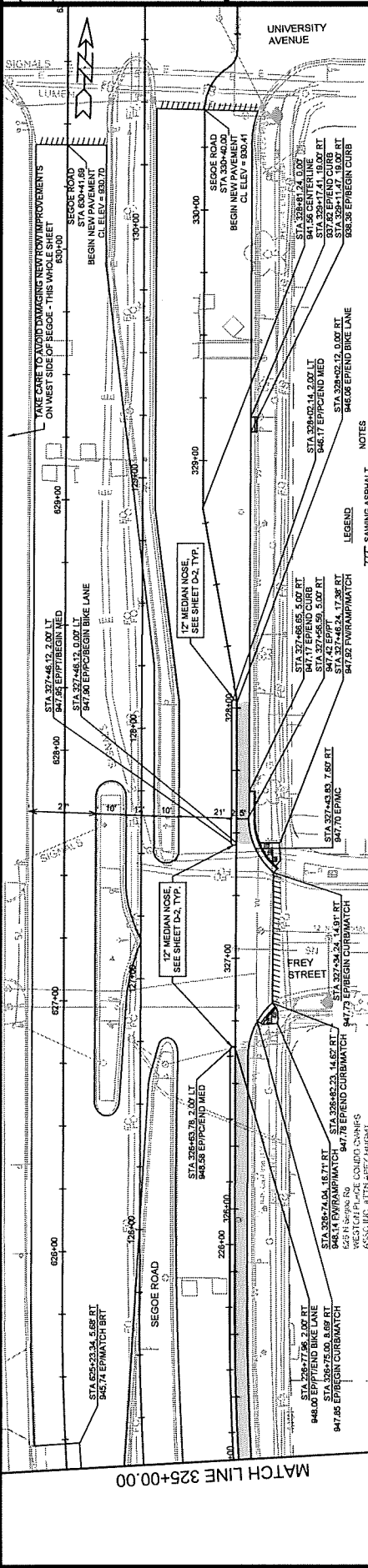
14215  
MADISON, WI  
CONTRACT NO: 8693

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SHEBOYGAN SEGOE RESURFACING WITH UTILITIES  
DESIGN: 11/14/23 12:58:00 PM  
P-11



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P-11

PLAN & PROFILE SEGOE RD  
14215  
SHEBOYGAN SEGOE RESURFACING WITH UTILITIES  
CONTRACT NO: 8693  
14215  
P-11



NOTES:  
- ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED SHALL BE CONCRETE DRIVEWAY 7-INCH UNLESS NOTED OTHERWISE  
- ALL CURBS ALONG COMMERCIAL DRIVEWAYS REPLACED SHALL BE CONCRETE  
- ALL SIDEWALKS & CONCRETE TERRACE REPLACEMENT SHALL BE CONCRETE SIDEWALK 7-INCH  
- ALL BIKE LANE AREAS SHALL BE EITHER 3" ASPHALT OR 7" CONCRETE WITH SAWED JOINTS  
- ALL CURB RAMP KEYSTONES SHALL BE 1.5K UNLESS OTHERWISE NOTED  
- ALL UTILITIES SHALL BE PROTECTED AND REPLACEMENTS AT THE DISCRETION OF THE CONSTRUCTION ENGINEER

LEGEND:  
- 7'7\"/>

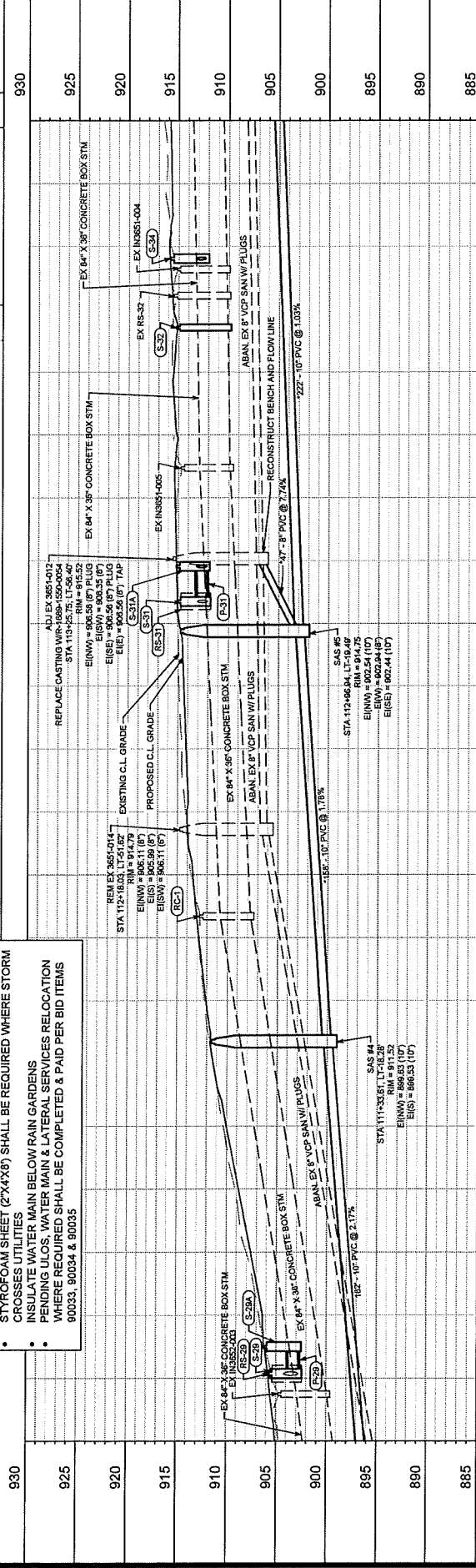
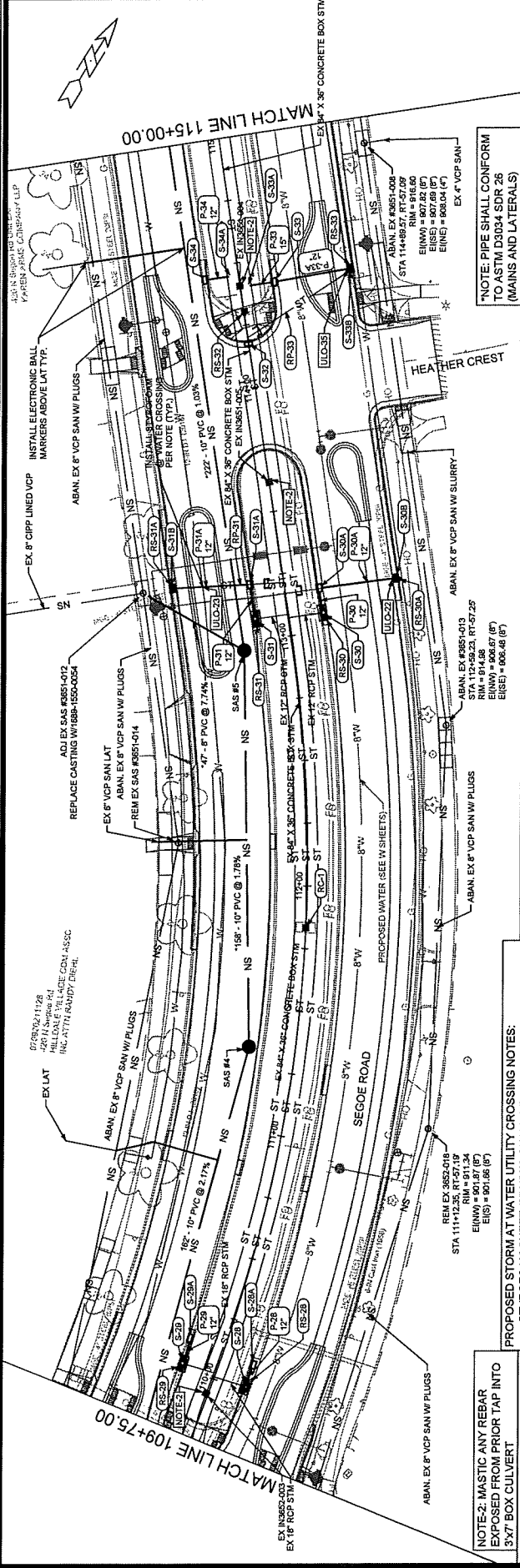
14215  
MADISON, WI  
CONTRACT NO: 8693

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SHEBOYGAN SEGOE RESURFACING WITH UTILITIES  
DESIGN: 11/14/23 12:58:00 PM  
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SHEBOYGAN SEGOE RESURFACING WITH UTILITIES  
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P-11



NOTE-2: MASTIC ANY REBAR EXPOSED FROM PRIOR TAP INTO 3'x7' BOX CULVERT

PROPOSED STORM AT WATER UTILITY CROSSING NOTES:  
 • STYROFOAM SHEET (2'x4'x8') SHALL BE REQUIRED WHERE STORM CROSSES UTILITIES  
 • INSULATE WATER MAIN BELOW RAIN GARDENS  
 • PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90033, 90034 & 90035

\*NOTE: PIPE SHALL CONFORM TO ASTM D3034 SDR 26 (MAINS AND LATERALS)



INSTALL ELECTRONIC BALL MARKERS ABOVE LAT TYP.

ABAN. EX. 6\"/>

ABAN. EX. 6\"/>

ABAN. EX. 6\"/>

ABAN. EX. 6\"/>

ABAN. EX. 6\"/>

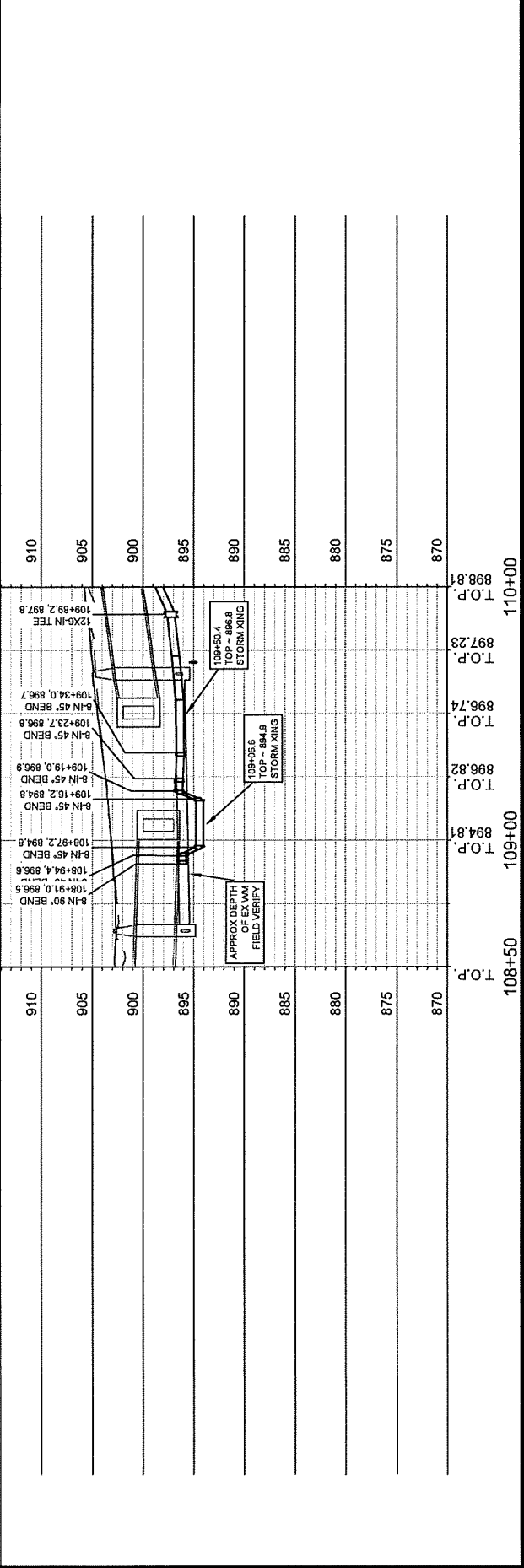
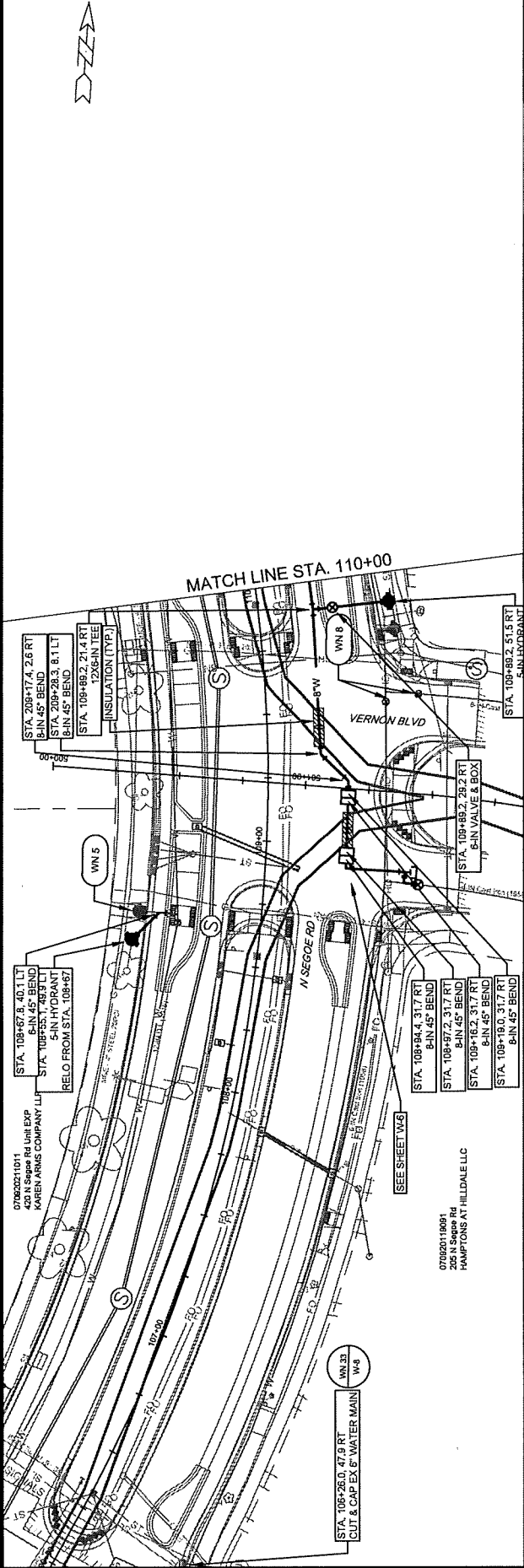
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ABAN. EX. 6\"/>

ABAN. EX. 6\"/>



14215  
 W-1



ORIGINAL





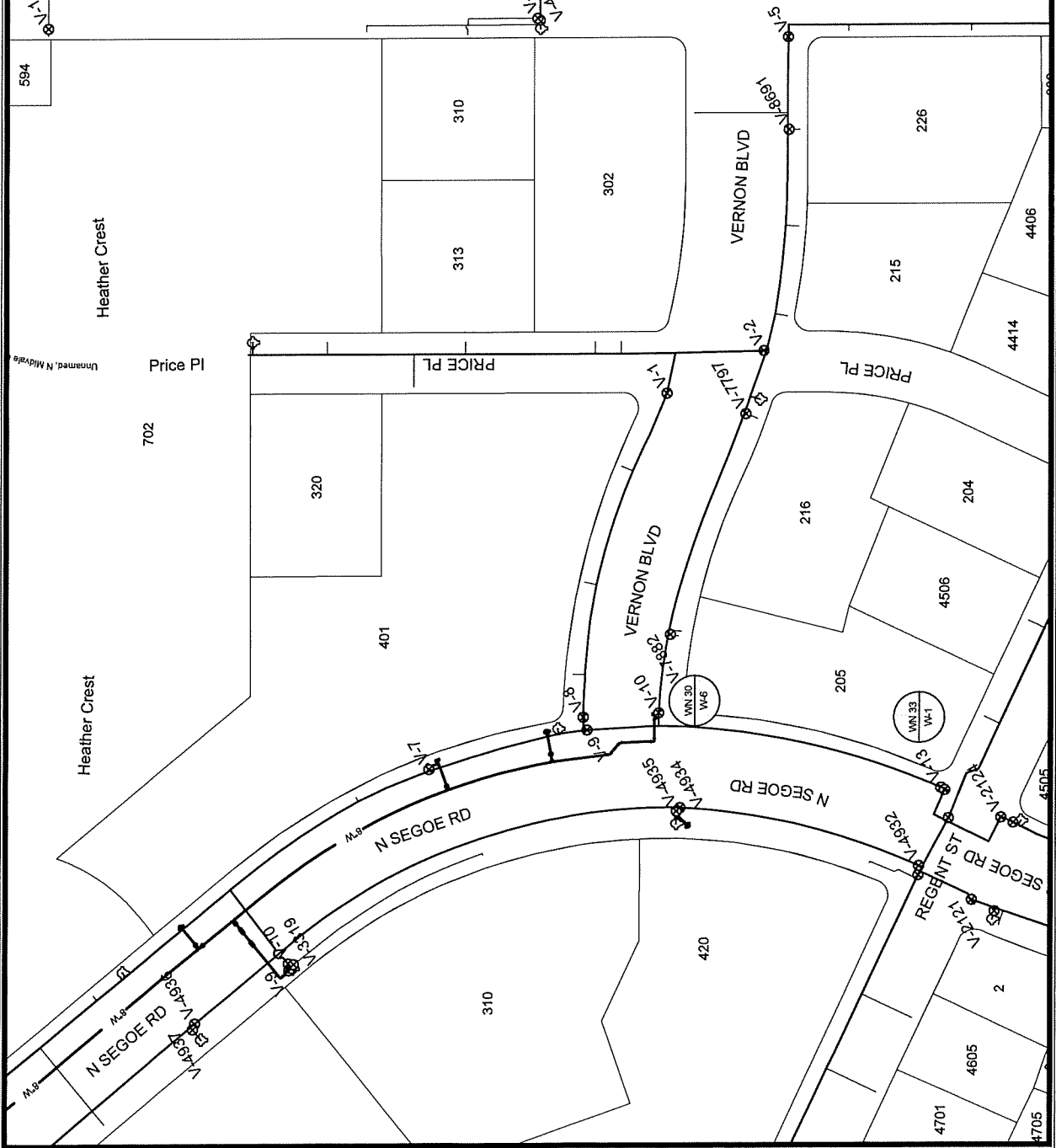




1" = 100'

- WN 30: CUT-IN CONNECTION; CUT & CAP MAIN NORTH & SOUTH OF TEE.**  
**ISOLATION VALVES:**
  - V-2 (VERNON BLVD & PRICE PL)
  - V-5 (VERNON BLVD & MIDVALE BLVD)
  - V-9 (SEGOE RD & VERNON BLVD)**PROVIDE NOTICE:**
  - 205 N SEGOE RD
  - 215, 216 PRICE PL
  - 226 N MIDVALE BLVD
- WN 33: CUT & CAP EX 6" MAIN.**  
**ISOLATION VALVES:**
  - V-9 (SEGOE RD & VERNON BLVD)
  - V-10 (SEGOE RD & VERNON BLVD)
  - V-2123 (SEGOE RD & REGENT ST)**PROVIDE NOTICE:**
  - NONE

**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.



DRG 14215



WATER UTILITY ULO SCHEDULE

ULO #	UTILITY	STATION	OFFSET	SHEET
#1	WATER/GAS	110+92	42.1 RT	W-2
#2	WATER/GAS	113+33	47.4 LT	W-2
#3	WATER/GAS	113+76	43.6 RT	W-2
#4	WATER/ELEC	116+31	22.8 RT	W-3
#5	WATER/ELEC	119+93	21.1 RT	W-3
#6	WATER/GAS	122+26	25.4 RT	W-4
#7	WATER/GAS	109+70	20.8 RT	W-6
#8	WATER/GAS	109+89	43.9 RT	W-6
#9	WATER/FIBER	30+07	19.4 RT	W-7

REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.  
 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.  
 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.  
 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.  
 RELOCATE THE EXISTING FIRE HYDRANT.  
 ABANDON WATER VALVE ACCESS STRUCTURE.  
 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.  
 ABANDON THE VALVE BOX.  
 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.  
 REMOVE AND SALVAGE EXISTING HYDRANT  
 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE  
 SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

CONSTRUCTION NOTES:  
 1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT STORM CROSSINGS AND 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.

\*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

DESCRIPTION	QUANTITY	UNIT
FURNISH AND INSTALL 4 INCH PIPE & FITTINGS	20	LNFT
FURNISH AND INSTALL 6 INCH PIPE & FITTINGS	360	LNFT
FURNISH AND INSTALL 8 INCH PIPE & FITTINGS	1200	LNFT
FURNISH AND INSTALL 12 INCH PIPE & FITTINGS	1220	LNFT
FURNISH AND INSTALL 6-INCH WATER VALVE	8	EACH
FURNISH AND INSTALL 8-INCH WATER VALVE	5	EACH
FURNISH AND INSTALL 12-INCH WATER VALVE	5	EACH
FURNISH, INSTALL AND SALVAGE HYDRANT	1	EACH
FURNISH AND INSTALL 2 INCH SERVICE LATERALS	1	EACH
RECONNECT 2-INCH SERVICE LATERAL	14	EACH
CUT-IN OR CONNECT TO EXISTING WATER SYSTEM	3	EACH
CUT OFF EXISTING WATER MAIN	20	EACH
ABANDON WATER VALVE BOX	50	EACH
STYROFOAM INSULATION BOARDS	50	EACH
ADJUST WATER VALVE BOX	3	EACH
6-IN MU PLUG	2	EACH
12-IN SOLID SLEEVE	2	EACH
4-IN 90° BEND	11	EACH
6-IN 90° BEND	1	EACH
8-IN 45° BEND	1	EACH
8-IN 45° BEND	6	EACH
12-IN 45° BEND	2	EACH
1208-IN REDUCER	1	EACH
6X4-IN TEE	2	EACH
8X6-IN TEE	6	EACH
1206-IN TEE	5	EACH
1208-IN TEE	2	EACH
6X8-IN TEE	2	EACH
122X-IN OFFSET	2	EACH
122X-IN OFFSET	2	EACH
INSTALL ANODE	3	EACH
5-IN HYDRANT	2	RELOCATE

\*ESTIMATE OF MATERIALS SALVAGED & REUSED:  
 RELOCATE 2  
 \*ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

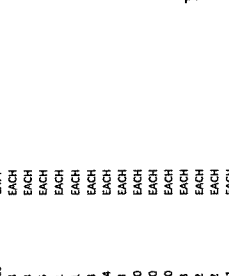


TYPICAL HYDRANT INSTALLATION

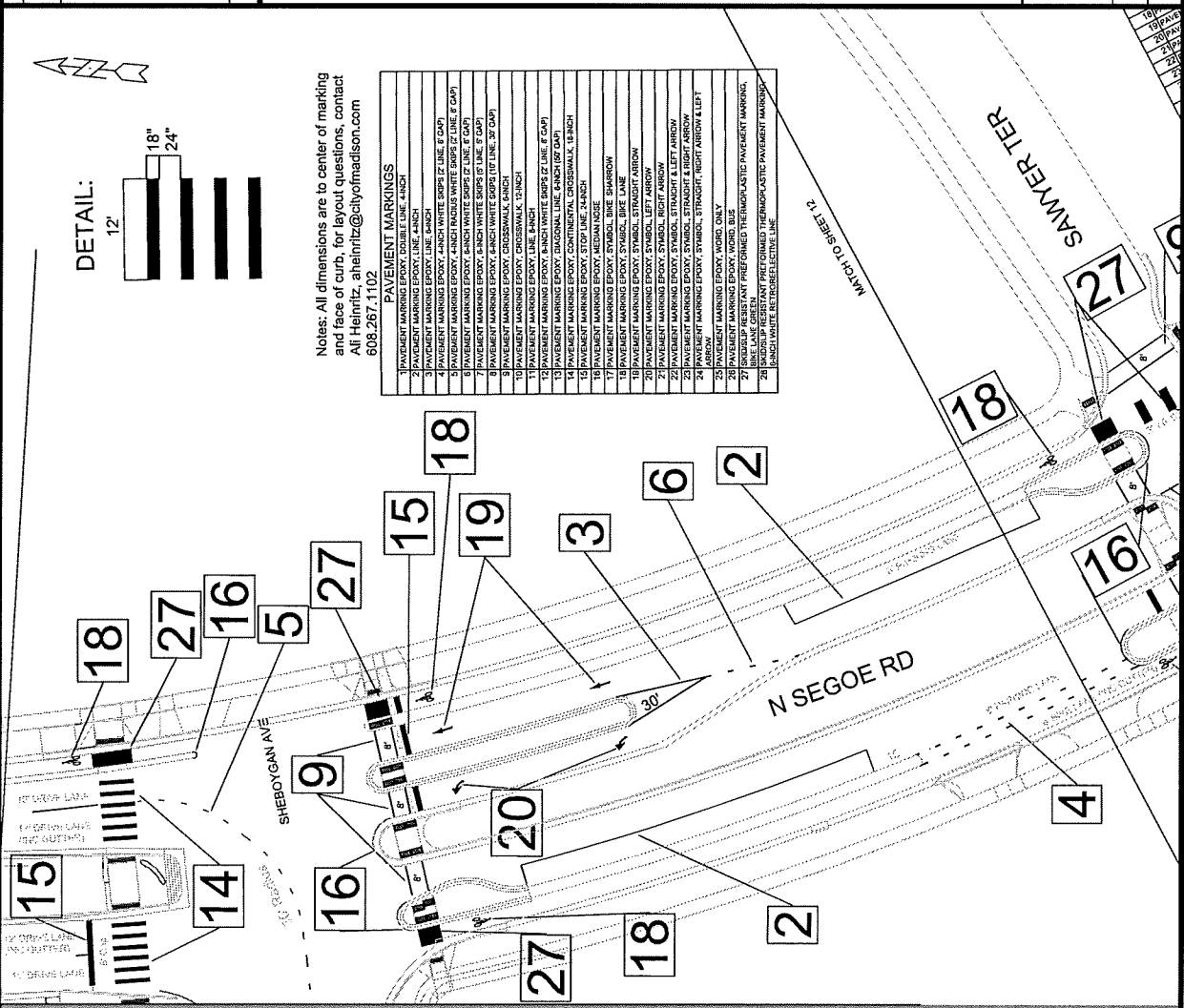
NOT TO SCALE

CITY OF MADISON WATER UTILITY

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 182.075 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



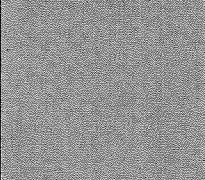
DISCLAIMER NOTE: UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.



**PAVEMENT MARKINGS**

1	PAVEMENT MARKING EPOXY, CURB LINE, 4 INCH
2	PAVEMENT MARKING EPOXY, STRAIGHT, 4 INCH
3	PAVEMENT MARKING EPOXY, LINE, 8 INCH
4	PAVEMENT MARKING EPOXY, LINE, 8 INCH
5	PAVEMENT MARKING EPOXY, 4 INCH RADIUS WHITE STRIPS (2 LINE, 2 CAP)
6	PAVEMENT MARKING EPOXY, 4 INCH RADIUS WHITE STRIPS (2 LINE, 2 CAP)
7	PAVEMENT MARKING EPOXY, 8 INCH WHITE STRIPS (2 LINE, 2 CAP)
8	PAVEMENT MARKING EPOXY, 8 INCH WHITE STRIPS (2 LINE, 2 CAP)
9	PAVEMENT MARKING EPOXY, STRAIGHT, 4 INCH
10	PAVEMENT MARKING EPOXY, CROSSWALK, 12 INCH
11	PAVEMENT MARKING EPOXY, LINE, 8 INCH
12	PAVEMENT MARKING EPOXY, 8 INCH WHITE STRIPS (2 LINE, 2 CAP)
13	PAVEMENT MARKING EPOXY, DIAGONAL LINE, 8 INCH (90 DEG)
14	PAVEMENT MARKING EPOXY, CONTINUOUS CROSSWALK, 18 INCH
15	PAVEMENT MARKING EPOXY, MEDIAN, 18 INCH
16	PAVEMENT MARKING EPOXY, SYMBOL, BIKE SHARROW
17	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE
18	PAVEMENT MARKING EPOXY, SYMBOL, STRAIGHT ARROW
19	PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW
20	PAVEMENT MARKING EPOXY, SYMBOL, STRAIGHT & LEFT ARROW
21	PAVEMENT MARKING EPOXY, SYMBOL, STRAIGHT & RIGHT ARROW
22	PAVEMENT MARKING EPOXY, SYMBOL, STRAIGHT, RIGHT ARROW & LEFT
23	PAVEMENT MARKING EPOXY, SYMBOL, STRAIGHT, RIGHT ARROW & LEFT
24	PAVEMENT MARKING EPOXY, WORD, ONLY
25	PAVEMENT MARKING EPOXY, WORD, BUS
26	PAVEMENT MARKING EPOXY, WORD, BUS
27	SLIP-UP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING
28	SLIP-UP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING
29	8 INCH WHITE RETROREFLECTIVE LINE

Notes: All dimensions are to center of marking and face of curb, for layout questions, contact Al Heinrich, aheinrich@cityofmadison.com 608.267.1102



REVISIONS

NO.	DATE	BY	REVISION

ORIGINAL

DATE	11/11
BY	11/11
SCALE	1" = 40'
PROJECT	14215
DATE	11/11
BY	11/11
SCALE	1" = 40'
PROJECT	14215

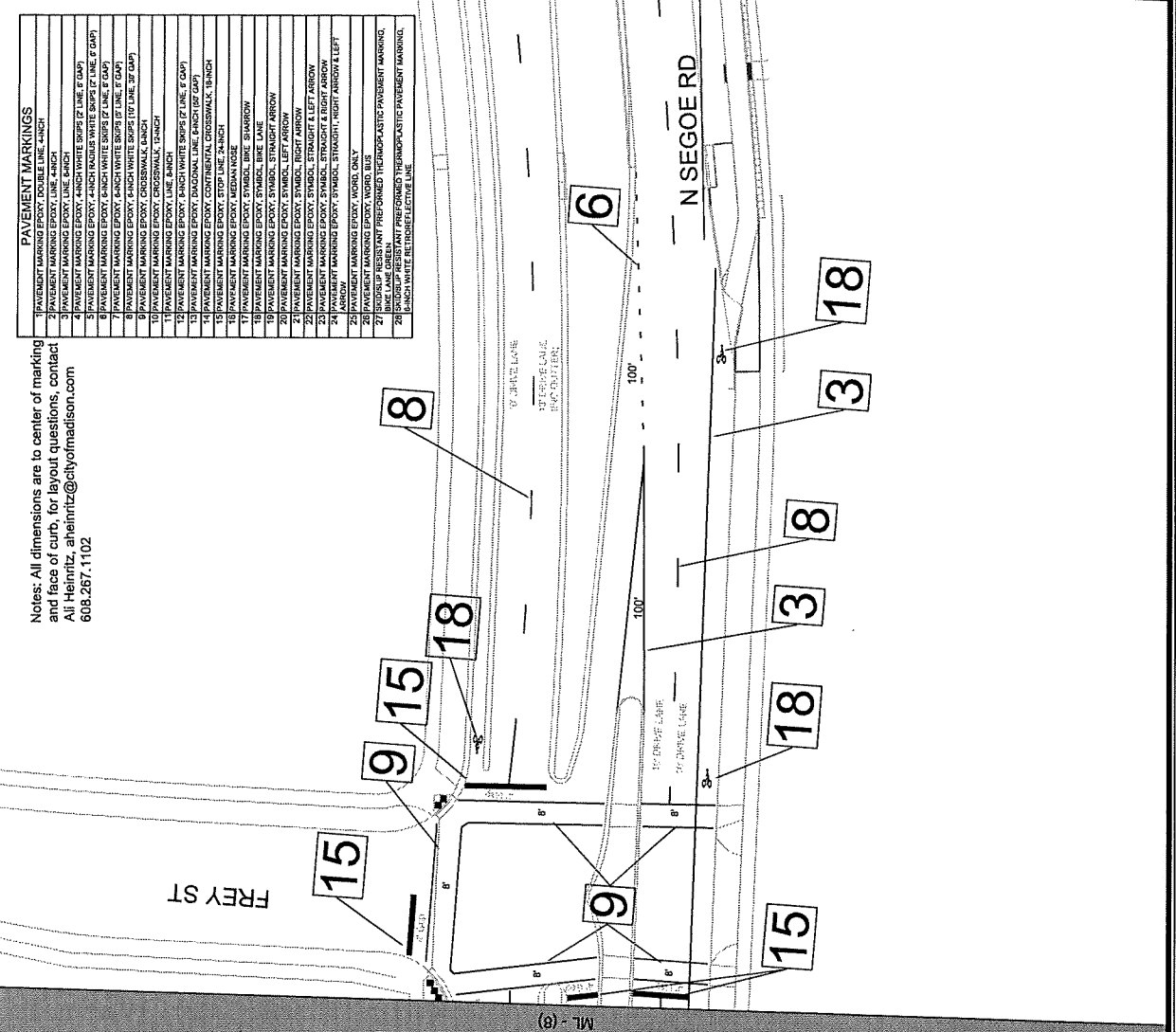
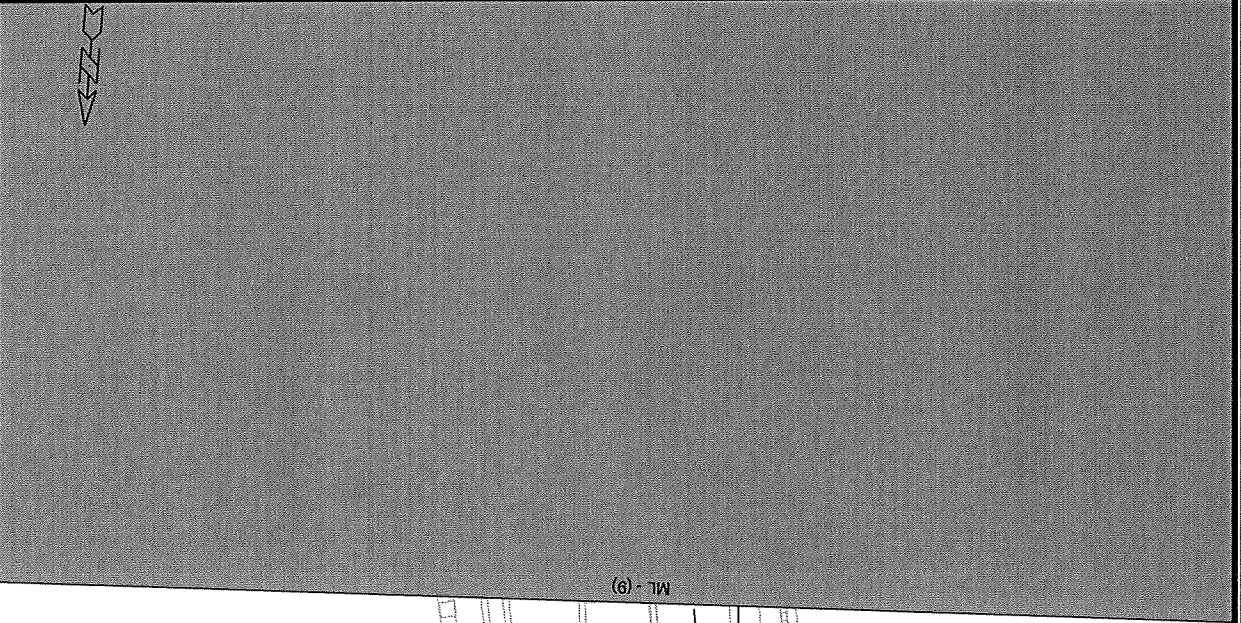
CONTRACT NO: 8693  
MADISON, WI  
14215

PAVEMENT MARKING PLANS  
SHEBOGAN SEGE RESURFACING WITH UTILITIES

DESIGN PROJECT: 14215 CAD: 14215 PAVEMENT MARKINGS.dwg  
MADISON, WI  
14215



14215  
M-10



Notes: All dimensions are to center of marking and face of curb, for layout questions, contact Alj Heintz, aheintz@cityofmadison.com 608.267.1102

PAVEMENT MARKINGS	
1	PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH
2	PAVEMENT MARKING EPOXY, LINE, 4-INCH
3	PAVEMENT MARKING EPOXY, LINE, 4-INCH
4	PAVEMENT MARKING EPOXY, 4-INCH TABLE WHITE SURFS (Z LINE, 6' GAP)
5	PAVEMENT MARKING EPOXY, 4-INCH TABLE WHITE SURFS (Z LINE, 6' GAP)
6	PAVEMENT MARKING EPOXY, 4-INCH TABLE WHITE SURFS (Z LINE, 6' GAP)
7	PAVEMENT MARKING EPOXY, 4-INCH TABLE WHITE SURFS (Z LINE, 6' GAP)
8	PAVEMENT MARKING EPOXY, 4-INCH TABLE WHITE SURFS (Z LINE, 6' GAP)
9	PAVEMENT MARKING EPOXY, 4-INCH TABLE WHITE SURFS (Z LINE, 6' GAP)
10	PAVEMENT MARKING EPOXY, CROSSWALK, 8-INCH
11	PAVEMENT MARKING EPOXY, CROSSWALK, 8-INCH
12	PAVEMENT MARKING EPOXY, 8-INCH WHITE SURFS (Z LINE, 6' GAP)
13	PAVEMENT MARKING EPOXY, DIAGONAL LINE, 8-INCH (8' GAP)
14	PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK, 18-INCH
15	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
16	PAVEMENT MARKING EPOXY, MEDIAN ROSE
17	PAVEMENT MARKING EPOXY, MEDIAN ROSE
18	PAVEMENT MARKING EPOXY, STRAIGHT ARROW
19	PAVEMENT MARKING EPOXY, STRAIGHT ARROW
20	PAVEMENT MARKING EPOXY, STRAIGHT ARROW
21	PAVEMENT MARKING EPOXY, STRAIGHT & LEFT ARROW
22	PAVEMENT MARKING EPOXY, STRAIGHT & LEFT ARROW
23	PAVEMENT MARKING EPOXY, STRAIGHT & RIGHT ARROW
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14215  
X-31

SEGOE RD - CROSS SECTIONS

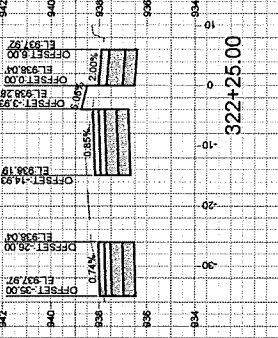
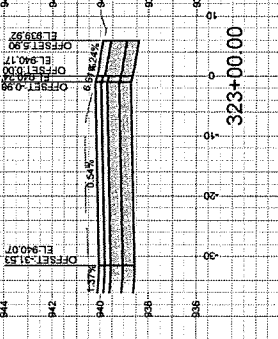
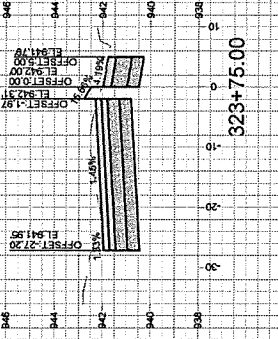
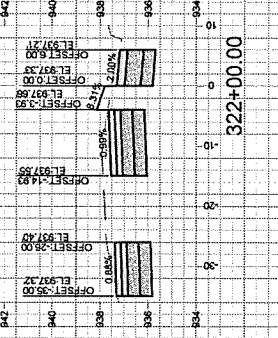
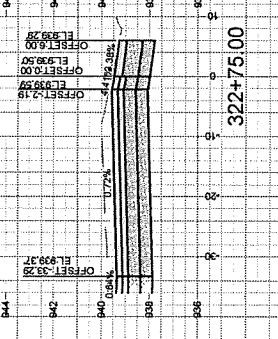
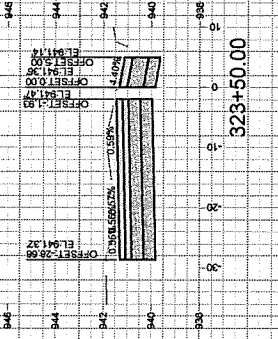
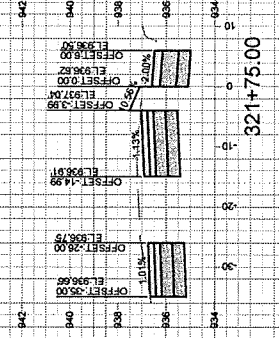
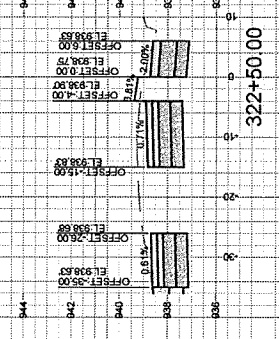
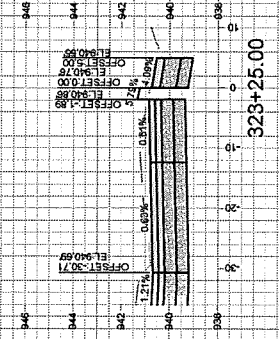
SHEBOYGAN SEGOE RESURFACING WITH UTILITIES

CONTRACT NO: 8693

MADISON, WI  
14215

MARK	REVISION	DATE	BY

Drawn By: MFD Date: 11/07/22 @ 10 AM  
14215  
X-31



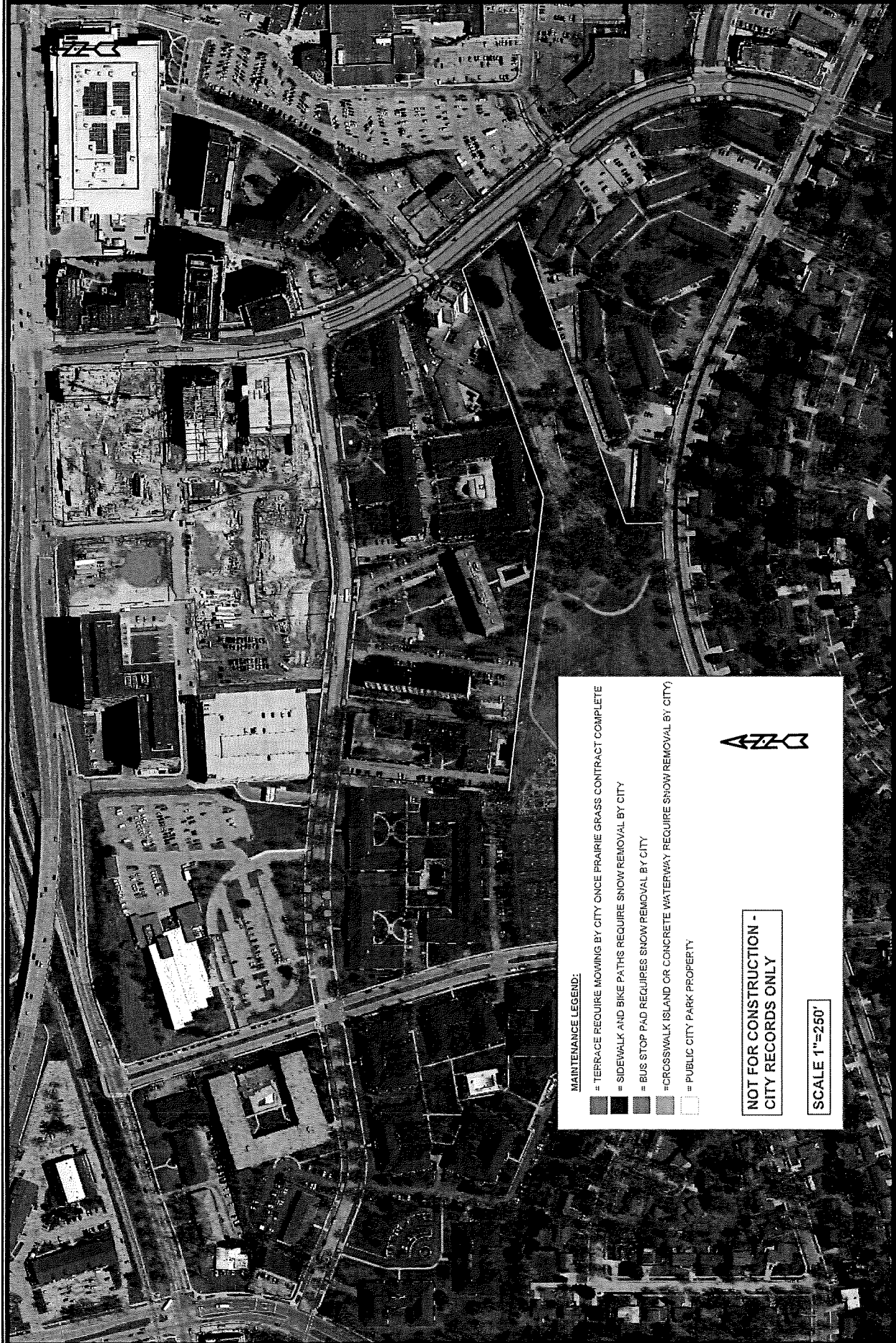


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14215  
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 CONTRACT NO:  
 MADISON, WI  
 14215  
 MAINTENANCE PLAN



14215  
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**DTZ**

**MAINTENANCE LEGEND:**

- = TERRACE REQUIRE MOWING BY CITY ONCE PRAIRIE GRASS CONTRACT COMPLETE
- = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
- = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
- = CROSSWALK ISLAND OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY
- = PUBLIC CITY PARK PROPERTY

**NOT FOR CONSTRUCTION -  
 CITY RECORDS ONLY**

**SCALE 1"=250'**

ORIGINAL



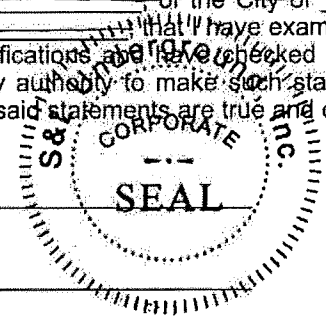
**SECTION E: BIDDERS ACKNOWLEDGEMENT**

**SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES  
CONTRACT NO. 8693**

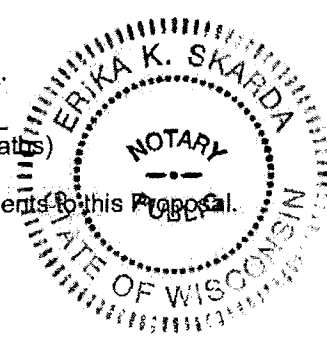
Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication 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.

1. 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 Nos. \_\_\_\_\_ through \_\_\_\_\_ to the Contract, 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)
2. 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.
3. 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.
4. 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).
5. I hereby certify that all statements herein are made on behalf of S&L Underground, Inc. (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of Wisconsin ~~a partnership consisting of \_\_\_\_\_~~; an individual trading as \_\_\_\_\_ of the City of \_\_\_\_\_ State of \_\_\_\_\_ 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]  
 SIGNATURE  
President  
 TITLE, IF ANY



Sworn and subscribed to before me this 14th day of December, 2023.  
Erika K. Skarda



(Notary Public or other officer authorized to administer oaths)  
 My Commission Expires 2-11-2026  
 Bidders shall not add any conditions or qualifying statements to this Proposal.



## Section E: Bidder's Acknowledgement

---

This section is a required document for the bid to be considered complete. There are two methods for completing the Bidder Acknowledgement Report. Method one: The report can be downloaded, completed, and uploaded to this site to be included with your electronic bid. Method two: The report can be downloaded from the site and submitted by hand to the City of Madison. Either method of submission requires that the Bidder Acknowledgement Report be received by the bid due date.

Please select the method of submission below. The form is in the section below to download and upload to the site or download and submit by hand.

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

### Method of Submittal for Bidder Acknowledgement (click in box below to choose) \*

I will download Bidder Acknowledgement Downloadable Document, complete, and upload online.

The bidder acknowledges receipt of the following addenda to the contract for the above designated project. Please check the appropriate box for each addendum reviewed. If no addenda have been issued, then no boxes are required to be checked.

Any addenda issues after 12:00 P.M. on the Tuesday proceeding the bid due date shall include a provision extending the bid due date.

### Addendum Acknowledgement

Acknowledge each Addenda reviewed by checking the appropriate checkboxes below.

Addendum 1

\*

Addendum 2

\*

Addendum 3

Addendum 4

Addendum 5

Addendum 6

## 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

SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES  
CONTRACT NO. 8693

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: S+L Underground, Inc.

Address: W10440 Cty Rd K Lodi, WI 53555

Telephone Number: 608-592-0625 Fax Number: 608-592-3804

Contact Person/Title: Matt Kundert, Operations Manager

Prime Bidder Certification

I, Ben Larrabee, President of  
Name Title

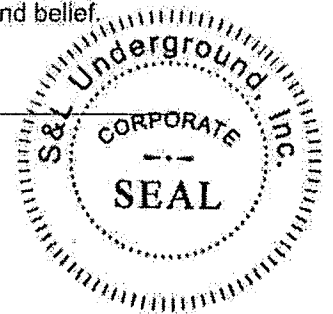
S+L Underground, Inc. certify that the information  
Company

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

Erika Slawka  
Witness' Signature

B. J. [Signature]  
Bidder's Signature

12/14/2023  
Date







**SHEBOYGAN AVE AND SEGOE ROAD ASSESSMENT DISTRICT - 2024**

CONTRACT NO. 8693

DATE: 12/14/23

**S&L Underground, Inc.**

Item	Quantity	Price	Extension
<b>Section B: Proposal Page</b>			
10701 - TRAFFIC CONTROL - L.S.	1.00	\$18,000.00	\$18,000.00
10721 - TRAFFIC CONTROL SIGNS - PORTABLE CHANGEABLE MESSAGE - DAYS	130.00	\$42.25	\$5,492.50
10801 - ROOT CUTTING - CURB & GUTTER - L.F.	100.00	\$2.30	\$230.00
10912 - MOBILIZATION - L.S.	1.00	\$250,344.00	\$250,344.00
20101 - EXCAVATION CUT - C.Y.	17400.00	\$22.70	\$394,980.00
20130 - UNDERDRAIN - L.F.	200.00	\$15.00	\$3,000.00
20140-GEOTEXTILE FABRIC TYPE SAS (NON-WOVEN)-S.Y.	30500.00	\$1.00	\$30,500.00
20204 - SELECT FILL - TON	100.00	\$15.20	\$1,520.00
20219 - BREAKER RUN - TON	5100.00	\$16.10	\$82,110.00
20221 - TOPSOIL - S.Y.	8600.00	\$6.00	\$51,600.00
20303 - SAWCUT BITUMINOUS PAVEMENT, FULL DEPTH - L.F.	600.00	\$3.00	\$1,800.00
20322 - REMOVE CONCRETE CURB & GUTTER - L.F.	4300.00	\$3.10	\$13,330.00
20323 - REMOVE CONCRETE SIDEWALK & DRIVE - S.F.	14800.00	\$2.00	\$29,600.00
20401 - CLEARING - I.D.	30.00	\$55.00	\$1,650.00
20406 - GRUBBING - I.D.	30.00	\$55.00	\$1,650.00
20701 - TERRACE SEEDING - S.Y.	8600.00	\$1.00	\$8,600.00
20709 - SHORTGRASS PRAIRIE SEEDING - S.Y.	3800.00	\$3.00	\$11,400.00
21063 - EROSION MATTING, CLASS I, TYPE A - ORGANIC - S.Y.	12300.00	\$2.80	\$34,440.00
30201 - TYPE 'A' CONCRETE CURB & GUTTER - L.F.	4300.00	\$32.73	\$140,739.00
30205 - TYPE 'E' CONCRETE CURB & GUTTER - L.F.	1500.00	\$32.73	\$49,095.00
30207 - TYPE 'H' CONCRETE CURB & GUTTER - L.F.	100.00	\$42.83	\$4,283.00
30203 - TYPE 'X' CONCRETE CURB & GUTTER - L.F.	300.00	\$42.83	\$12,849.00
30208 - HAND FORMED CONCRETE CURB & GUTTER - L.F.	200.00	\$42.83	\$8,566.00
30301 - 5-INCH CONCRETE SIDEWALK - S.F.	6800.00	\$8.76	\$59,568.00
30302 - 7-INCH CONCRETE SIDEWALK AND DRIVE - S.F.	9400.00	\$9.00	\$84,600.00
30311 - CONCRETE MOUNTABLE MEDIAN ISLAND NOSE - S.F.	950.10	\$15.15	\$14,394.02
30340 - CURB RAMP DETECTABLE WARNING FIELD - S.F.	1000.00	\$45.45	\$45,450.00
40101 - CRUSHED AGGREGATE BASE COURSE GRADATION NO. 1 - TON	8600.00	\$15.30	\$131,580.00
40102 - CRUSHED AGGREGATE BASE COURSE GRADATION NO. 2 - TON	13600.00	\$15.30	\$208,080.00
40203 - HMA PAVEMENT 3 MT 58-28 S - TON	4300.00	\$68.69	\$295,367.00
40205 - HMA PAVEMENT 4 MT 58-28 S - TON	2900.00	\$74.49	\$216,021.00
40218 - TACK COAT - GAL	1670.00	\$2.02	\$3,373.40
40231 - ASPHALT DRIVE AND TERRACE - S.F.	50.00	\$13.00	\$650.00
40301 - FULL WIDTH GRINDING - S.Y.	500.00	\$9.09	\$4,545.00
60800 - PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH - L.F. - L.F.	3000.00	\$1.16	\$3,480.00
60801 - PAVEMENT MARKING EPOXY, 4-INCH - L.F. - L.F.	7000.00	\$0.58	\$4,060.00
60802 - PAVEMENT MARKING EPOXY, LINE, 6-INCH - L.F. - L.F.	6500.00	\$0.78	\$5,070.00
60803 - PAVEMENT MARKING EPOXY, LINE, 8-INCH - L.F. - L.F.	500.00	\$0.98	\$490.00
60809 - PAVEMENT MARKING EPOXY, DIAGONAL LINE, 6-INCH-L.F. - L.F.	500.00	\$6.50	\$3,250.00
60812 - PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH - L.F. - L.F.	2000.00	\$6.50	\$13,000.00
60814 - PAVEMENT MARKING EPOXY, CROSSWALK, 12-INCH - L.F. - L.F.	500.00	\$10.75	\$5,375.00
60816 - PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK, 18-INCH - L.F. - L.F.	900.00	\$16.10	\$14,490.00
60818 - PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH - L.F. - L.F.	500.00	\$19.80	\$9,900.00
60820 - PAVEMENT MARKING EPOXY, MEDIAN NOSE - EACH - EACH	10.00	\$165.00	\$1,650.00
60822 - PAVEMENT MARKING EPOXY, SYMBOL, BIKE SHARROW- EACH - EACH	8.00	\$325.00	\$2,600.00
60823 - PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE- EACH - EACH	40.00	\$250.00	\$10,000.00
60829 - PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW - EACH - EACH	6.00	\$265.00	\$1,590.00

**SHEBOYGAN AVE AND SEGOE ROAD ASSESSMENT DISTRICT - 2024**

CONTRACT NO. 8693

DATE: 12/14/23

**S&L Underground, Inc.**

Item	Quantity	Price	Extension
60830 - PAVEMENT MARKING EPOXY, SYMBOL, RIGHT ARROW - EACH - EACH	4.00	\$265.00	\$1,060.00
60832 - PAVEMENT MARKING EPOXY, SYMBOL, STRAIGHT & LEFT ARROW - EACH - EACH	4.00	\$380.00	\$1,520.00
60833 - PAVEMENT MARKING EPOXY, SYMBOL, STRAIGHT & RIGHT ARROW - EACH - EACH	4.00	\$380.00	\$1,520.00
60834 - PAVEMENT MARKING EPOXY, WORD, ONLY - EACH - EACH	5.00	\$425.00	\$2,125.00
60835 - PAVEMENT MARKING EPOXY, WORD, BUS - EACH - EACH	5.00	\$410.00	\$2,050.00
60894 - SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, BIKE LANE GREEN - S.F - S.F.	1800.00	\$14.75	\$26,550.00
60896 - SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6-INCH WHITE RETROREFLECTIVE LINE - L.F. - L.F.	500.00	\$6.85	\$3,425.00
60940 - TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH - L.F.	100.00	\$1.00	\$100.00
60941 - TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, DOUBLE LINE, 4-INCH - L.F.	100.00	\$2.00	\$200.00
60975 - TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, LINE, 24-INCH - L.F.	30.00	\$6.00	\$180.00
90001 - TEMPORARY CROSSWALK ACCESS - EACH	8.00	\$1,920.00	\$15,360.00
90002 - 12-INCH CONCRETE MEDIAN - S.F.	8800.00	\$14.04	\$123,552.00
90003 - 7-INCH CONCRETE MEDIAN - S.F.	4900.00	\$8.99	\$44,051.00
90004 - BIKE LANE - 3-INCH ASPHALT OR 7-INCH CONCRETE - S.F.	22000.00	\$2.50	\$55,000.00
90005 - REMOVE AND SALVAGE PAVERS - EACH	1.00	\$3,200.00	\$3,200.00
90006 - SIDEWALK CURB - L.F.	120.00	\$42.42	\$5,090.40
90009 - LANE "YIELD TO PEDS" & YIELD LINE - EACH	1.00	\$525.00	\$525.00
20217 - CLEAR STONE - TON	2300.00	\$21.00	\$48,300.00
21002 - EROSION CONTROL INSPECTION - EACH	6.00	\$500.00	\$3,000.00
21011 - CONSTRUCTION ENTRANCE - EACH	12.00	\$360.32	\$4,323.84
21012 - STREET CONSTRUCTION STONE BERM - EACH	1.00	\$432.00	\$432.00
21013 - STREET SWEEPING - LUMP SUM	2.00	\$5,000.00	\$10,000.00
21014 - CLEAR STONE BERM (DITCH CHECK) - EACH	44.00	\$200.00	\$8,800.00
21018 - SILT SOCK (8 INCH) - PROVIDE, INSTALL, & MAINTAIN (UNDISTRIBUTED) - L.F.	300.00	\$7.00	\$2,100.00
21019 - SILT SOCK (8 INCH) - REMOVE & RESTORE (UNDISTRIBUTED) - L.F.	300.00	\$2.00	\$600.00
21095 - INLET PROTECTION TYPE B (UNDISTRIBUTED) - EACH	7.00	\$100.00	\$700.00
21031 - INLET PROTECTION TYPE C (UNDISTRIBUTED) - EACH	30.00	\$160.00	\$4,800.00
21049 - INLET PROTECTION, RIGID FRAME - PROVIDE AND INSTALL - EACH	69.00	\$350.00	\$24,150.00
21050 - INLET PROTECTION, RIGID FRAME - MAINTAIN - EACH	138.00	\$100.00	\$13,800.00
21051 - INLET PROTECTION, RIGID FRAME - REMOVE - EACH	69.00	\$50.00	\$3,450.00
50401 - 12 INCH TYPE I RCP STORM SEWER PIPE - L.F.	1155.00	\$92.60	\$106,953.00
50432 - 12 INCH TYPE II PAVEMENT STORM SEWER PIPE - L.F. - L.F.	10.00	\$92.60	\$926.00
50741 - TYPE H INLET - EACH	44.00	\$2,923.00	\$128,612.00
50762 - SADDLED INLET TYPE II - EACH	1.00	\$2,893.00	\$2,893.00
10912 - MOBILIZATION FOR STORM SEWER INSTALLATION - L.S.	1.00	\$10,000.00	\$10,000.00
20311 - REMOVE SEWER ACCESS STRUCTURE (STORM) - EACH	12.00	\$915.00	\$10,980.00
20313 - REMOVE INLET - EACH	13.00	\$630.00	\$8,190.00
20314 - REMOVE PIPE - L.F.	312.00	\$35.00	\$10,920.00
20336 - PIPE PLUG (STORM) (UNDISTRIBUTED) - EACH	17.00	\$300.00	\$5,100.00
50102 - RCBC ROOF REPAIR, TYPE II - EACH	1.00	\$4,350.00	\$4,350.00

**SHEBOYGAN AVE AND SEGOE ROAD ASSESSMENT DISTRICT - 2024**

CONTRACT NO. 8693

DATE: 12/14/23

**S&L Underground, Inc.**

Item	Quantity	Price	Extension
50211 - SELECT BACKFILL FOR STORM SEWER - T.F.	2686.00	\$0.01	\$26.86
50390 - SEWER ELECTRONIC MARKERS (STORM & SANITARY)(UNDISTRIBUTED) - EACH	20.00	\$92.70	\$1,854.00
50402 - 15 INCH TYPE I RCP STORM SEWER PIPE - L.F.	532.00	\$100.00	\$53,200.00
50403 - 18 INCH TYPE I RCP STORM SEWER PIPE - L.F.	765.00	\$113.00	\$86,445.00
50433 - 15 INCH TYPE II PAVEMENT STORM SEWER PIPE - L.F.	10.50	\$100.45	\$1,054.73
50434 - 18 INCH TYPE II PAVEMENT STORM SEWER PIPE - L.F.	213.50	\$100.00	\$21,350.00
50499 - CONCRETE COLLAR - EACH	2.00	\$660.00	\$1,320.00
50723 - 3'X3' STORM SAS - EACH	14.00	\$3,810.00	\$53,340.00
50724 - 4'X4' STORM SAS - EACH	1.00	\$5,430.00	\$5,430.00
50768 - TERRACE INLET TYPE 3 - EACH	3.00	\$5,850.00	\$17,550.00
50792 - STORM TAP - EACH	6.00	\$970.00	\$5,820.00
50794 - PRIVATE STORM SEWER RECONNECT, TYPE 2 - EACH	10.00	\$1,898.00	\$18,980.00
50801 - UTILITY LINE OPENING (ULO) (UNDISTRIBUTED) - EACH	37.00	\$780.00	\$28,860.00
90031 - COVER BOX CASTING - EACH	2.00	\$4,038.00	\$8,076.00
90032 - MASTIC INLET REPAIR - EACH	8.00	\$430.00	\$3,440.00
90033 - RELOCATE WATER LATERAL SERVICE (UNDISTRIBUTED) - EACH	5.00	\$1,495.00	\$7,475.00
90034 - RELOCATE WATER 6-INCH MAIN (UNDISTRIBUTED) - EACH	3.00	\$3,545.00	\$10,635.00
90035 - RELOCATE 12-INCHWATER MAIN (UNDISTRIBUTED) - EACH	6.00	\$5,050.00	\$30,300.00
50722 - 6'X6' CATCHBASIN - EACH	1.00	\$13,500.00	\$13,500.00
90036 - WATER QUALITY TREATMENT SWALE - L.F.	320.00	\$10.90	\$3,488.00
90037 - WATER QUALITY TREATMENT SWALE FLUME - EACH	3.00	\$100.00	\$300.00
10914 - MOBILIZATION FOR SANTARY SEWER INSTALLATION - L.S.	1.00	\$10,000.00	\$10,000.00
20311 - REMOVE SEWER ACCESS STRUCTURE - EACH	9.00	\$747.00	\$6,723.00
20331 - ABANDON SEWER ACCESS STRUCTURE - EACH	6.00	\$665.00	\$3,990.00
20335 - ABANDON SEWER PIPE WITH SLURRY - C.Y.	11.50	\$784.00	\$9,016.00
20336 - PIPE PLUG (SANITARY) (UNDISTRIBUTED) - EACH	10.00	\$150.00	\$1,500.00
20501 - ADJUST SEWER ACCESS STRUCTURE - EACH	5.00	\$580.00	\$2,900.00
50103 - RECONSTRUCT BENCH AND FLOWLINE(S) - EACH	4.00	\$850.00	\$3,400.00
50212 - SELECT BACKFILL SANITARY SEWER - T.F.	1841.00	\$0.01	\$18.41
50226 - UTILITY TRENCH PATCH TYPE III - T.F.	60.00	\$100.00	\$6,000.00
50301 - 8 INCH PVC SEWER PIPE (SDR 35, SDR 26) - L.F.	363.00	\$94.90	\$34,448.70
50302 - 10 INCH PVC SEWER PIPE (SDR35, SDR 26) - L.F.	880.00	\$113.00	\$99,440.00
50303 - 12 INCH PVC SEWER PIPE (SDR35, SDR 26) - L.F.	390.00	\$113.00	\$44,070.00
50353 - SANITARY SEWER LATERAL - L.F.	208.00	\$86.20	\$17,929.60
50356 - RECONNECT - EACH	6.00	\$3,200.00	\$19,200.00
50361 - WASTEWATER CONTROL - L.S.	1.00	\$500.00	\$500.00
50390 - SEWER ELECTRONIC MARKERS (SANITARY)(UNDISTRIBUTED) - EACH	14.00	\$93.00	\$1,302.00
50701 - 4' DIA SANITARY SAS - EACH	11.00	\$5,030.00	\$55,330.00
50791 - SANITARY SEWER TAP - EACH	4.00	\$2,411.00	\$9,644.00
10911 - MOBILIZATION - EACH	1.00	\$51,900.00	\$51,900.00
50801 - UTILITY LINE OPENING (ULO) - EACH	10.00	\$975.00	\$9,750.00
70001 - FURNISH AND INSTALL 4 INCH PIPE & FITTINGS - L.F.	20.00	\$136.00	\$2,720.00
70002 - FURNISH AND INSTALL 6 INCH PIPE & FITTINGS - L.F.	360.00	\$121.00	\$43,560.00
70003 - FURNISH AND INSTALL 8 INCH PIPE & FITTINGS - L.F.	1200.00	\$107.00	\$128,400.00
70005 - FURNISH AND INSTALL 12 INCH PIPE & FITTINGS - L.F.	1220.00	\$136.00	\$165,920.00
70031 - FURNISH AND INSTALL 6-INCH WATER VALVE - EACH	8.00	\$2,594.00	\$20,752.00
70032 - FURNISH AND INSTALL 8-INCH WATER VALVE - EACH	3.00	\$3,375.00	\$10,125.00
70034 - FURNISH AND INSTALL 12-INCH WATER VALVE - EACH	5.00	\$5,570.00	\$27,850.00
70040 - FURNISH, INSTALL AND SALVAGE HYDRANT - EACH	1.00	\$6,327.00	\$6,327.00
70041 - RELOCATE HYDRANT - EACH	2.00	\$1,387.00	\$2,774.00
70052 - FURNISH AND INSTALL 2 INCH SERVICE LATERALS - EACH	1.00	\$10,700.00	\$10,700.00
70058 - RECONNECT 2-INCH SERVICE LATERAL - EACH	3.00	\$6,700.00	\$20,100.00
70080 - CUT-IN OR CONNECT TO EXISTING WATER SYSTEM - EACH	14.00	\$3,000.00	\$42,000.00
70082 - CUT OFF EXISTING WATER MAIN - EACH	3.00	\$1,980.00	\$5,940.00

**SHEBOYGAN AVE AND SEGOE ROAD ASSESSMENT DISTRICT - 2024**

CONTRACT NO. 8693

DATE: 12/14/23

**S&L Underground, Inc.**

Item	Quantity	Price	Extension
70090 - ABANDON WATER VALVE BOX - EACH	20.00	\$228.00	\$4,560.00
70101 - FURNISH AND INSTALL STYROFOAM - EACH	50.00	\$140.00	\$7,000.00
70104 - ADJUST WATER VALVE BOX - EACH	50.00	\$435.00	\$21,750.00
70106 - ROCK EXCAVATION - C.Y.	50.00	\$5.00	\$250.00
70111 - FURNISH & INSTALL ANODE - EACH	3.00	\$413.00	\$1,239.00
90020 - ABANDON & SALVAGE EX HYDRANT - EACH	1.00	\$568.00	\$568.00
60224 - FURNISH & INSTALL 3 INCH PVC (SCHEDULE 40) CONDUIT - EACH	28.00	\$7.53	\$210.84
60230 - FURNISH & INSTALL 2 INCH PVC (SCHEDULE 80) CONDUIT - EACH	351.00	\$6.72	\$2,358.72
60232 - FURNISH & INSTALL 2 INCH PVC (SCHEDULE 40) CONDUIT - EACH	1197.00	\$5.00	\$5,985.00
60241 - GOPHER RACEWAY FOR ELECTRICAL CONDUIT OR CABLE-IN-DUCT - L.F.	130.00	\$46.46	\$6,039.80
60253 - FURNISH & INSTALL 3 #4 AND 1 #8 WIRES IN EXISTING OR CONTRACTOR INSTALLED CONDUIT - EACH	2032.00	\$10.81	\$21,965.92
60415 - CONSTRUCT LB-3R BASE - EACH	10.00	\$1,136.36	\$11,363.60
60416 - CONSTRUCT LB-8R BASE - EACH	1.00	\$1,308.08	\$1,308.08
60427 - REMOVE ELECTRICAL HANDHOLE - EACH	1.00	\$328.28	\$328.28
60261 - ELECTRICAL TRENCH - EACH	1431.00	\$7.58	\$10,846.98
60702 - CONSTRUCT ELECTRICAL HANDHOLE TYPE 1 - EACH	4.00	\$1,393.94	\$5,575.76
60706 - CONSTRUCT ELECTRICAL HANDHOLE TYPE 5 - EACH	2.00	\$1,742.43	\$3,484.86
60222 - FURNISH & INSTALL 3 INCH PVC (SCHEDULE 80) CONDUIT - L.F.	410.00	\$10.66	\$4,370.60
60224 - FURNISH & INSTALL 3 INCH PVC (SCHEDULE 40) CONDUIT - EACH	474.00	\$7.53	\$3,569.22
60230 - FURNISH & INSTALL 2 INCH PVC (SCHEDULE 80) CONDUIT - EACH	208.00	\$6.72	\$1,397.76
60232 - FURNISH & INSTALL 2 INCH PVC (SCHEDULE 40) CONDUIT - EACH	437.00	\$5.00	\$2,185.00
60241 - GOPHER RACEWAY FOR ELECTRICAL CONDUIT OR CABLE-IN-DUCT - L.F.	268.00	\$46.46	\$12,451.28
60413 - CONSTRUCT TYPE P BASE - EACH	1.00	\$934.34	\$934.34
60415 - CONSTRUCT LB-3R BASE - EACH	1.00	\$1,136.36	\$1,136.36
60416 - CONSTRUCT LB-8R BASE - EACH	1.00	\$1,308.08	\$1,308.08
60417 - CONSTRUCT TYPE GR BASE - EACH	10.00	\$934.34	\$9,343.40
60423 - REMOVE TRAFFIC SIGNAL BASE - EACH	14.00	\$100.00	\$1,400.00
60425 - REMOVE TRAFFIC SIGNAL OR STREETLIGHT CABINET - EACH	1.00	\$1,176.77	\$1,176.77
60261 - ELECTRICAL TRENCH - EACH	227.00	\$7.58	\$1,720.66
60263 - FURNISH & INSTALL TRAFFIC SIGNAL CABLE 5-14 AWG - L.F.	720.00	\$1.92	\$1,382.40
60265 - FURNISH & INSTALL TRAFFIC SIGNAL CABLE 7-14 AWG - L.F.	325.00	\$2.42	\$786.50
60269 - FURNISH & INSTALL TRAFFIC SIGNAL CABLE 12-14 AWG - L.F.	200.00	\$3.28	\$656.00
60280 - LOOP DETECTOR LEAD IN WIRE - L.F.	945.00	\$1.36	\$1,285.20
60702 - CONSTRUCT ELECTRICAL HANDHOLE TYPE 1 - EACH	8.00	\$1,393.94	\$11,151.52
60704 - CONSTRUCT ELECTRICAL HANDHOLE TYPE 3 - EACH	2.00	\$752.53	\$1,505.06
60706 - CONSTRUCT ELECTRICAL HANDHOLE TYPE 5 - EACH	2.00	\$1,742.43	\$3,484.86
60292 - FURNISH & INSTALL FIBER OPTIC CABLE 24-COUNT - L.F.	450.00	\$2.42	\$1,089.00
90007 - FURNISH & INSTALL LOOP DETECTORS - L.F.	1392.00	\$1.31	\$1,823.52
90008 - FURNISH & INSTALL TRAFFIC SIGNAL NEUTRAL #10 AWG WIRE - L.F.	1515.00	\$1.16	\$1,757.40
<b>180 Items</b>	<b>Totals</b>		<b>\$4,410,674.23</b>

## **SECTION G: BID BOND**

LET ALL KNOW BY THESE DOCUMENTS PRESENTED, THAT Principal and Surety, as identified below, are held and firmly bound unto the City of Madison, (hereinafter referred to as the "Obligee"), in the sum of five per cent (5%) of the amount of the total bid or bids of the Principal herein accepted by the Obligee, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that, whereas the Principal has submitted, to the City of Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made a part hereof, to enter into a contract in writing for the construction of:

### **SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES CONTRACT NO. 8693**

1. If said bid is rejected by the Obligee, then this obligation shall be void.
2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the form specified by the Obligee (properly completed in accordance with said bid) and shall furnish a bond for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be void.

If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the contract and the performance and payment bond noted in 2. above executed by this Surety, or other Surety approved by the City of Madison, all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated damages the sum mentioned above, it being understood that the liability of the Surety for any and all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further understood that the Principal and Surety reserve the right to recover from the Obligee that portion of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

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

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.

Seal PRINCIPAL

S&L Underground, Inc.

Name of Principal

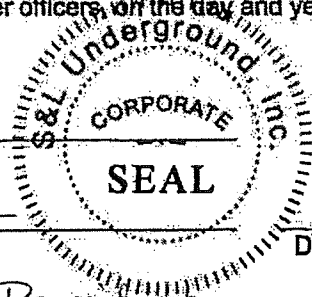
*Ben Larrabee*

By

Date

12/14/2023

*Ben Larrabee, President*  
Name and Title



Seal SURETY

Granite Re, Inc.

Name of Surety

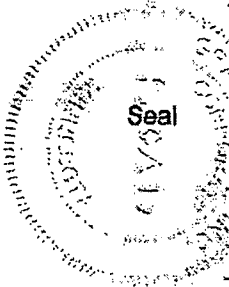
*Connie Smith*

By

Date

12/04/2023

Connie Smith, Attorney-in-Fact  
Name and Title



This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Provider No. 16492915 for the year 2023, and appointed as attorney in fact with authority to execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked.

12/04/2023

Date

*Connie Smith*

Agent Signature Connie Smith

P.O. Box 465

Address

Hudson, WI 54016

City, State and Zip Code

800-535-0006

Telephone Number

NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees shall be rejected if the following instrument is not attached to this bond:

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.



## SECTION H: AGREEMENT

THIS AGREEMENT made this 5th day of February in the year Two Thousand and Twenty-Four between **S&L UNDERGROUND, INC.**, hereinafter called the Contractor, and the City of Madison, a Wisconsin municipal corporation, hereinafter called the City.

WHEREAS, the Common Council of the City of Madison ("Council") under the provisions of a resolution adopted on **JANUARY 23, 2024**, and by virtue of authority vested in the Council, has awarded to the Contractor the work of performing certain public 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 Agreement; 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:

### **SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES CONTRACT NO. 8693**

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 **FOUR MILLION FOUR HUNDRED TEN THOUSAND SIX HUNDRED SEVENTY-FOUR AND 23/100 (\$4,410,674.23)** Dollars being the amount bid by such Contractor and which was awarded as provided by law.
4. **A. Non-Discrimination.** During the term of 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.  
**B. Affirmative Action.** 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, shall be provided to the City by the opening date of advertisement and with sufficient time for the City to notify candidates and make a timely referral. The Contractor agrees to interview



and consider candidates referred by the Affirmative Action Division, or an organization designated by the 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)(I), 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.

7. **Choice of Law and Forum Selection.** This Contract shall be governed by and construed, interpreted and enforced in accordance with the laws of the State of Wisconsin. The parties agree, for any claim or suit or other dispute relating to this Contract that cannot be mutually resolved, the venue shall be a court of competent jurisdiction within the State of Wisconsin and the parties agree to submit themselves to the jurisdiction of said court, to the exclusion of any other judicial district that may have jurisdiction over such a dispute according to any law.
8. **Counterparts, Electronic Signature and Delivery.** This Contract may be signed in counterparts, each of which shall be taken together as a whole to comprise a single document. Signatures on this Contract may be exchanged between the parties by facsimile, electronic scanned copy (.pdf) or similar technology and shall be as valid as original; and this Contract may be converted into electronic format and signed or given effect with one or more electronic signature(s) if the electronic signature(s) meets all requirements of Wis. Stat. ch. 137 or other applicable Wisconsin or Federal law. Executed copies or counterparts of this Contract may be delivered by facsimile or email and upon receipt will be deemed original and binding upon the parties hereto, whether or not a hard copy is also delivered. Copies of this Contract, fully executed, shall be as valid as an original.

**SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES  
CONTRACT NO. 8693**

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

Countersigned:

<u><i>Erika Seala</i></u>	<u>1/24/2024</u>
Witness	Date
<u><i>Erika Seala</i></u>	<u>1/24/2024</u>
Witness	Date

**S&L UNDERGROUND, INC.**

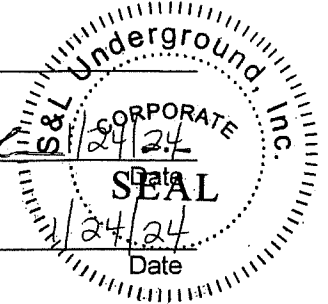
Company Name

*B 2 2*

President

*Danasee*

Secretary



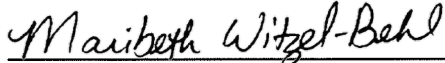
CITY OF MADISON



Satya Rhodes-Corway, Mayor

02/05/2024

Date



Maribeth Witzel-Behl, City Clerk

1/31/2024

Date

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



David P. Schmiedicke, Finance Director

2/5/2024

Date

Approved as to form:



Michael Haas, City Attorney

2/5/2024

Date

Execution of this Agreement by City was authorized by Resolution Enactment No. RES -24-00049, ID No. 81416, adopted by the Common Council of the City of Madison on Jan. 23, 2024.

**SECTION I: PAYMENT AND PERFORMANCE BOND**

LET ALL KNOW BY THESE DOCUMENTS PRESENTED, that we **S&L UNDERGROUND, INC.**, as principal, and Granite Re, Inc.

Company of Minnesota as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of **FOUR MILLION FOUR HUNDRED TEN THOUSAND SIX HUNDRED SEVENTY-FOUR AND 23/100 (\$4,410,674.23)** 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:

**SHEBOYGAN AVE AND N. SEGOE RD RESURFACING WITH UTILITIES  
CONTRACT NO. 8693**

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 24th day of January, 2024

Countersigned:

*Erika Swartz*

Witness

*Dan Rasmussen*

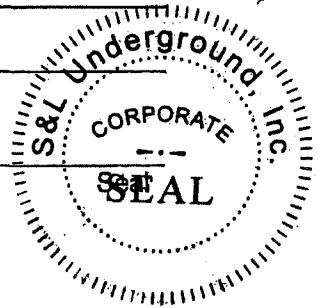
Secretary

**S&L UNDERGROUND, INC.**

Company Name (Principal)

*Bob Z...*

President



Granite Re, Inc.

Surety

Seal

Salary Employee

Commission

By

*Connie Smith*

Attorney-in-Fact Connie Smith

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Producer Number 16492915 for the year 2024, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

01/24/2024

Date

*Connie Smith*

Agent Signature Connie Smith

The foregoing Bond has been approved as to form:

2/5/2024

Date

*Michael Haas*

City Attorney

**GRANITE RE, INC.**  
**GENERAL POWER OF ATTORNEY**

**Know all Men by these Presents:**

That GRANITE RE, INC., a corporation organized and existing under the laws of the State of MINNESOTA and having its principal office at the City of OKLAHOMA CITY in the State of OKLAHOMA does hereby constitute and appoint:

MICHAEL J. DOUGLAS; CHRIS STEINAGEL; CHRISTOPHER M. KEMP; KARLA HEFFRON; SAMUEL DUCHOW; ROBERT DOWNEY; JULIA DOUGLAS; CONNIE SMITH; KORY MORTEL; ELIOT MOTU its true and lawful Attorney-in-Fact(s) for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said GRANITE RE, INC. a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said GRANITE RE, INC. through us, its Board of Directors, hereby ratifies and confirms all and whatsoever the said:

MICHAEL J. DOUGLAS; CHRIS STEINAGEL; CHRISTOPHER M. KEMP; KARLA HEFFRON; SAMUEL DUCHOW; ROBERT DOWNEY; JULIA DOUGLAS; CONNIE SMITH; KORY MORTEL; ELIOT MOTU may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said GRANITE RE, INC. has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its President and Assistant Secretary, this 31<sup>st</sup> day of July, 2023.

STATE OF OKLAHOMA )  
                                  ) SS:  
COUNTY OF OKLAHOMA )



*Kenneth D. Whittington*  
Kenneth D. Whittington, President

*Kyle P. McDonald*  
Kyle P. McDonald, Assistant Secretary

On this 31<sup>st</sup> day of July, 2023, before me personally came Kenneth D. Whittington, President of the GRANITE RE, INC. Company and Kyle P. McDonald, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said, that they, the said Kenneth D. Whittington and Kyle P. McDonald were respectively the President and the Assistant Secretary of GRANITE RE, INC., the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their name thereto by like order as President and Assistant Secretary, respectively, of the Company.

My Commission Expires:  
April 21, 2027  
Commission #: 11003620



*Bethany J. Alred*  
Notary Public

**GRANITE RE, INC.**  
**Certificate**

THE UNDERSIGNED, being the duly elected and acting Assistant Secretary of Granite Re, Inc., a Minnesota Corporation, HEREBY CERTIFIES that the following resolution is a true and correct excerpt from the July 15, 1987, minutes of the meeting of the Board of Directors of Granite Re, Inc. and that said Power of Attorney has not been revoked and is now in full force and effect.

"RESOLVED, that the President, any Vice President, the Assistant Secretary, and any Assistant Vice President shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the Company in the course of its business. On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the Company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

IN WITNESS WHEREOF the undersigned has subscribed this Certificate and affixed the corporate seal of the Corporation this 24 day of JAN, 2024.



*Kyle P. McDonald*  
Kyle P. McDonald, Assistant Secretary