

Contract Routing Form

ROUTING: Urgent Rush

printed on: 06/01/2021

Contract between: Speedway Sand & Gravel, Inc.
 and Dept. or Division: Engineering Division
 Name/Phone Number:

Project: North Brooks Street, Fahrenbrook Court and College Court Resurfacing Assessment District - 2021

Contract No.: 8576 File No.: 65275
 Enactment No.: RES-21-00352 Enactment Date: 05/24/2021
 Dollar Amount: 797,402.45

(Please DATE before routing)

Signatures Required	Date Received	Date Signed
City Clerk		
Director of Civil Rights	6/4/21	6/4/21
Risk Manager	6/4/21	6/4/21 <i>mc</i>
Finance Director	6/4/21	6-7-21
City Attorney	6/7/2021	6-7-21
Mayor	6/7/2021	6.7.21

Please return signed Contracts to the City Clerk's Office
 Room 103, City-County Building for filing.

Original + 2 Copies

06/01/2021 14:57:41 enjls - Steve Sonntag 267-1997

\$797,402.45
ORIGINAL

BID OF SPEEDWAY SAND & GRAVEL, INC.

2021

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT
RESURFACING ASSESSMENT DISTRICT -2021

CONTRACT NO. 8576

PROJECT NO. 13180

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON MAY 18, 2021

CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713

<https://bidexpress.com/login>

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT
RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO. 8576**

INDEX

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERSA-1

SECTION B: PROPOSAL SECTION.....B-1

SECTION C: SMALL BUSINESS ENTERPRISE C-1

SECTION D: SPECIAL PROVISIONS..... D-1

SECTION E: BIDDER'S ACKNOWLEDGEMENTE-1

SECTION F: BEST VALUE CONTRACTING F-1

SECTION G: BID BOND G-1

SECTION H: AGREEMENT..... H-1

SECTION I: PAYMENT AND PERFORMANCE BOND I-1

This Proposal, and Agreement have
been prepared by:

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

Christy Bachmann for:

Robert F. Phillips, P.E., City Engineer

RFP: sms

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:	NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO.:	8576
SBE GOAL	5%
BID BOND	5%
SBE PRE BID MEETING	See Pre Bid Meeting info below
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	4/8/2021
BID SUBMISSION (2:00 P.M.)	4/15/2021
BID OPEN (2:30 P.M.)	4/15/2021
PUBLISHED IN WSJ	4/1/2021 & 4/8/2021

SBE PRE BID MEETING: Small Business Enterprise Pre-Bid Meetings are not being held in person at this time. Contractors can schedule one-on-one phone calls with Juan Pablo Torres Meza in Affirmative Action to count towards good faith efforts. Juan Pablo can be reached at 608-261-9162 or by email, jtorresmeza@cityofmadison.com.

PREQUALIFICATION APPLICATION: Forms are available on our website, www.cityofmadison.com/business/pw/forms.cfm. 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.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

The process for submission of bids has not changed. Bids may be submitted on line through Bid Express or in person at 1600 Emil St. Please note that the doors at 1600 Emil St. are locked, but there is a sign with phone numbers on the door. Please call one of the numbers and staff will come to the door to get your bid. Until further notice, the bid openings will be closed to the public to support the guidance of social distancing as the City responds to responsively to COVID-19 impacts to services. 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 - 2021 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/Business/PW/specs.cfm.

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

SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

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

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

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

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

SECTION 102.4 PROPOSAL

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

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

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

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

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

SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

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

MINOR DISCREPENCIES

Bidder is responsible for submitting all forms necessary for the City to determine compliance with State and City bidding requirements. Notwithstanding any language to the contrary contained herein, the City

may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion or performance of the contract.

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

Building Demolition

- 101 Asbestos Removal
- 120 House Mover

- 110 Building Demolition

Street, Utility and Site Construction

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

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

Bridge Construction

- 501 Bridge Construction and/or Repair

Building Construction

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

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

State of Wisconsin Certifications

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

SECTION B: PROPOSAL

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

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

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

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

SECTION C: SMALL BUSINESS ENTERPRISE

Instructions to Bidders City of Madison SBE Program Information

2 Small Business Enterprise (SBE) Program Information

2.1 Policy and Goal

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2.2 Contract Compliance

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

2.3 Certification of SBE by City of Madison

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

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

2.4 Small Business Enterprise Compliance Report

2.4.1 Good Faith Efforts

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

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

2.4.2 Reporting SBE Utilization and Good Faith Efforts

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

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

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

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

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

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

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

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

2.5 Appeal Procedure

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

2.6 SBE Requirements After Award of the Contract

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

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

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

2.7 SBE Definition and Eligibility Guidelines

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

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

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

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

SECTION D: SPECIAL PROVISIONS

NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING ASSESSMENT DISTRICT -2021 CONTRACT NO. 8576

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 \$65,000 for a single trade contract; or equal to or greater than \$318,000 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, replacing sanitary and storm sewer, removing and replacing concrete curb and gutter, sidewalk and drive aprons, excavation cut, crushed aggregate base course, and asphalt pavement as noted in the specifications and on the plans.

The Contractor shall view all 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.

North Brooks Street, Fahrenbrook Court and College Court

Work shall include removing and replacing curb & gutter, drive aprons and sidewalks that are in poor condition, storm sewer improvements and sanitary replacements. The street will be paved with 1.75" Bituminous lower layer, 4 LT 58-28S and 1.75" Bituminous upper layer, 4 LT 58-28S.

SECTION 104.4 INCREASED OR DECREASED QUANTITIES

The Contractor shall note that some bid item quantities may increase or decrease based on what is encountered in the field. If the actual field conditions vary from the plan quantity, no additional compensation shall be given for increasing or decreasing quantities. Any overruns shall be paid for under the appropriate bid item(s) without any penalty or change to the bid price for the associated bid item. The Contractor shall not be reimbursed for any deletions to the contract. No change to the unit bid price will be allowed for changes to the quantities.

The Contractor shall note that the bid items for sidewalk removal and replacement may increase or decrease based on what is encountered in the field. It was anticipated that 106 SF of sidewalk removal and replacement would be required for each of the sanitary lateral replacement and 53 SF for the private storm connection. It is also anticipated that there will be 20' of curb & gutter replaced for each lateral that is replaced with this project.

SECTION 104.10 CLEANING UP

Excess concrete from finishing operations and from spillage on adjacent sidewalk and curb & gutter shall be removed immediately. Excess concrete or mortar from the finishing operation and spillage into SASS and inlets shall be removed immediately.

SECTION 105.12 COOPERATION BY THE CONTRACTOR

The Contractor shall use care around existing trees, plantings, fences, walls, steps 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 Engineer and the City Forester; the abutting property owners shall be notified in accordance with the City's Administrative Procedure Memorandum No. 6-2.

The Contractor shall maintain access for property owners, mail delivery and garbage/recycling pickup for all properties in the project area. All private storm sewer discharges shall be maintained for all properties in the project area.

The Contractor shall maintain pedestrian access to all properties within the project limits and shall maintain vehicle access to all commercial driveways within the project limits at all times. All means necessary to maintain this access shall be considered incidental which may include but is not limited to high early strength concrete and temporary plating.

The Contractor will be responsible for coordination and providing work space for any conflict resolution work that will need to be performed by the private utility companies, and work on the sanitary sewer and storm sewer may require some relocation work by the utilities. The existing manholes for several of the facilities within the project limits are large. The Contractor shall coordinate with all utilities for any structure adjustments. Provide a minimum of 1 week notice prior to needing structure adjustments.

New underground utilities will also be installed by the private utility companies during this project. Contractor shall coordinate with the utilities and their contractors to provide space and time to complete the work within the contract timeframe as indicated in Section 109.2 Prosecution of Work. MG&E will be installing new gas main within the project limits.

Existing Facilities located within the project limits include:

Madison Gas & Electric (Gas) - contact Katie Bloomer, (608) 252-7287

Madison Gas & Electric (Electric) – contact Mark Bohm, (608) 252-4730

AT&T Wisconsin - contact Carol Anason, (608) 252-2385 or Ryan Denewellis (608) 252-2879

Charter Communications - contact Jon W Marschke (608) 225-2479

Verizon - contact RJ Cicatello Jr. (262)782-9836

SECTION 107.1 PUBLIC CONVENIENCE AND SAFETY

Access to businesses and commercial driveways shall be maintained at all times. The Contractor shall coordinate with parking lot property owners to maintain access and notify residents of access routes.

The Contractor shall properly barricade and light all work areas. Sidewalk forms, form pins and other items incidental to the work shall not be left or stored on the sidewalk or in the sidewalk area.

The Contractor shall backfill along both sides of the newly poured sidewalk immediately following removal of the sidewalk forms.

Engineer shall have the final decision on schedule of all work.

SECTION 107.2 PROTECTION AND RESTORATION OF PROPERTY AND PROPERTY OWNERS

Care shall be taken not to disturb property irons, sod areas and retaining walls on private property. Sidewalk forms, form pins and other items incidental to the work shall, at no time, be placed on private property.

SECTION 107.6 DUST PROOFING

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

SECTION 107.7 MAINTENANCE OF TRAFFIC

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.

The Contractor shall also submit an acceptable Traffic Control Plan, including all necessary phases, to Alexandra Heinritz, aheinritz@cityofmadison.com, prior to the pre-construction meeting. The Traffic Control Plan shall address all requirements of this section of the Special Provisions. The successful bidder shall work with the City Traffic Engineering Division to develop an approved Traffic Control Plan. The Contractor shall not start work on this project until the Traffic Engineering Division has approved a traffic control plan and traffic control devices have been installed, in accordance with the approved plan. Failure of the Contractor to obtain approval of a Traffic Control Plan, as specified above, may prevent the Contractor from starting work and shall be considered a delay of the project, caused by the Contractor.

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 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. The contractor shall refer to Chapter 6 in the MUTCD to provide adequate signs and taper lengths. The contractor may use drums as a channelizing device to separate traffic from work zone. 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.

The Contractor shall be responsible for installing and maintaining traffic control in accordance with the approved Traffic Control Plan and as directed by the City Traffic Engineer. 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. The Contractor shall install and maintain any necessary modifications or additions to the traffic control, as directed by the City Traffic Engineer, at no cost to the City.

North Brooks Street, College Court and Fahrenbrook Court may be closed to through traffic for the duration of construction except for the following special event dates.

- 1) Move-In/Move-out between Saturday, August 14-Monday August 16th, including the weekends immediately prior to and after these dates.- The streets may remain closed but no work and project site reasonably cleaned and organized to safely allow loading/unloading of residents vehicles.

Maintain local and emergency vehicle access at all times. Notice shall be given to the residents or businesses on the street 48 hours before any work is done that would obstruct their driveways.

Provide access for all mail deliveries.

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.

The work areas shall be backfilled, plated, or protected by traffic control devices during non-working hours. If steel plates are used, the Contractor shall notify the City of Madison Streets Division, 266-4681, (1) working day prior to placement of the plates.

No construction equipment or materials shall be stored in the roadway or street right-of-way that is open to traffic during non-working hours. Construction equipment and materials are not to be stored within the street right-of-way that is outside the project limits as shown on the approved plan.

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 Villarreal 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

NOTIFICATION WHEN CLOSING STREET

All Contractors shall give the Traffic Engineer (266-4761) notice of their intent to begin work on any street at least seventy-two (72) hours in advance. The Contractor shall not remove traffic signs. For removal or replacement of traffic and parking signs, contact the City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767, 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.

OPENING OF SECTION OF STREET TO TRAFFIC

The contractor shall notify The City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767 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 Alexandra Heinritz, Traffic Engineering Division, ahleinritz@cityofmadison.com

SECTION 108.2 PERMITS

A City of Madison Erosion Control permit is required and will be applied for by the City for this project.

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

- Wisconsin DNR Type II Dewatering
- MMSD Sewer Connection Permits

The Contractor will be responsible for acquiring Madison Metropolitan Sewerage District (MMSD) permits and paying for the permit fees for connection to MMSD MH02-007. The Contractor shall follow all MMSD permit requirements with this proposed work to their facilities. The permitting contact from MMSD for

these connections is Ray Schneider (608)347-3628, rays@madsewer.org. MMSD's permit fee for the work under this contract is \$1,150 and shall be paid by the Contractor.

The Contractor shall be responsible for knowing, understanding, and meeting the conditions of all permits and shall keep a copy of each individual permit on site at all times throughout construction. Any questions pertaining to permit compliance shall be immediately brought to the attention of the Project or Construction Engineer.

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

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

SECTION 109.2 PROSECUTION OF THE WORK

The Contractor may begin work on or after JUNE 1, 2021. All work shall be completed on or before AUGUST 31, 2021.

Work shall begin only after the start work letter is received. If it is desirable to begin work before the above-mentioned date, the Contractor shall establish a mutually acceptable date with the City Engineer, and the agreed upon date must be determined prior to the preconstruction meeting.

The total contract time accounts for work days necessary to coordinate with utilities for work being performed on their facilities. No time extensions will be given for coordinating with the utilities and for providing time and space for the private utilities to complete their work within the contract duration.

SECTION 210.1(d) STREET SWEEPING

When required, either by the erosion control plan or by 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 workday. Areas not accessible by mechanical street sweepers may require hand scraping with shovels.

ARTICLE 500 SEWER AND SEWER STRUCTURES GENERAL

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

SANITARY SEWER GENERAL

8" and 10" 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 & 50302) and Sanitary Lateral (Bid Item 50353). 8" AWWA C900 sewer main and lateral as called for on the plan set shall be payable under Sanitary Sewer Main (Bid Item 50321) and Sanitary Lateral (Bid Item 50355).

STA 13+20 to STA 13+45, STA 14+65 to 14+90, STA 24+50 to STA 25+00, are anticipated to be challenging to complete with trenched installation. We have included a bid item that allows contractor to

decide on the method of installation. Methods include (PUSH METHOD, BORE & JACK, PIPE BURSTING, OR OPEN CUT TRENCH WITH TUNNELING)

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, 2021 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 Sanitary Sewer Tap (Bid Item 50791). 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. Sanitary sewer laterals in the area are often underwater and, along College Ct, were originally routed through the 12x5 & 13.5x5 RCBC (box culvert). We do not anticipate any of these laterals to be active. City Engineering is working to dye test and monitor questionable lateral openings at the sewer main.

Connection of new pipes to existing structures shall utilize compression couplings where existing PVC sanitary main is installed at existing sewer access structures. Where it is not possible to connect with compression couplings, the connection shall be accommodated with a Sanitary Sewer Tap (Bid Item 50791) and Reconstruct Bench & Flowline(s) (Bid Item 50103).

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 removing, salvaging, replacing, newly installing and/or protecting the existing storm sewer system to install the sanitary sewer.

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. All private storm connections to a new structure are incidental to the new structure. If a private connection is not shown on the plan, additional compensation shall be paid for as a private reconnection unless the structure is field poured.

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

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

Salvaged castings, grates, apron end, and gates may be reinstalled where feasible at the discretion of the Engineer and/or Inspector.

BID ITEMS 90001 & 90002, in reference to the private storm connections at 1002 College Ct, are intended to provide an option for the property owner for connecting existing storm water downspouts in conjunction with the street reconstruction project.

ARTICLE 510 – SEWER PIPE BURST REHABILITATION OF SANITARY SEWER

ARTICLE 510.1 INTENT

This specification shall cover replacement of existing sanitary sewer through the use of a pipe bursting system approved by the Engineer. Where called for on the plan set, existing 6-inch VCP shall be replaced with an 8-inch inside diameter High Density Polyethylene (HDPE) or fusible C-900 pipe. Pipe bursting methodology; be it dynamic pneumatic, hydraulic, or static will be at the discretion of the Contractor but subject to approval by the Engineer. Any methodology submitted for approval by the Contractor shall meet all specifications and requirements detailed in this document, including requirements based on restricted access.

When complete, the new pipe will extend from one manhole to the next manhole in a continuous, watertight length.

ARTICLE 510.2 REFERENCE DOCUMENTS

This specification references standards from the American Society for Testing Materials (ASTM) for pipe bursting related to sanitary sewer installations. The following is a list of applicable standards for pipe bursting in sanitary sewer applications: ASTM D 1238-99, ASTM D 1505-98, ASTM D 790-00, ASTM D 638-99, ASTM D 1693-00, ASTM D 3350-99, ASTM D 618-99, ASTM D 2837-98a, and ASTM D 57.

ARTICLE 510.3 CONTRACTOR PRE-QUALIFICATIONS

The Contractor shall be verified by the pipe bursting system manufacturer as a fully trained user of the proposed pipe bursting system. The pipe bursting system shall be operated by personnel trained by a qualified representative of the pipe bursting system manufacturer. The Construction Engineer may require the Contractor to provide certificates of training for any employee directly involved in the supervision or operation of the pipe bursting system. Polyethylene pipe jointing shall be performed by personnel trained in the use of butt-fusion equipment and recommended methods for new pipe connections. Personnel directly involved with new pipe installation shall receive training in the proper methods for handling and installing the polyethylene pipe. Such training shall be conducted by a qualified representative of the fusion equipment manufacturer.

The Contractor shall be a licensed Contractor by the City of Madison for sewer and water construction.

ARTICLE 510.4 QUALITY ASSURANCE

The Contractor is solely responsible for quality assurance during the length of the project. The Contractor is responsible for any costs associated with corrective measures required to replace or repair items not meeting the quality standards specified by the Construction Engineer.

Any HDPE piping materials may be rejected for failure to meet any of the requirements of the specification. Pipe and fittings shall be homogeneous throughout and free of serious abrasion, cracks, kinking, flattening, holes blisters and any other visual defects.

ARTICLE 510.5 SUBMITTALS

The Contractor shall submit the items listed below for review and approval by the City of Madison in accordance with the Contract Documents. The Construction Engineer shall grant approval of the

submittals prior to ordering pipe materials and/or commencing the pipe replacement process. The Engineer will complete the review as quickly as possible, but may require up to ten (10) working days from the date the submittals are received until they are returned to the Contractor.

- 1) Shop Drawings, Catalog Numbers, and Manufacturer technical data showing complete information regarding material composition, physical properties, and dimensions of new pipe and fittings. Manufacturer recommendations for transport, handling, storage, and repair of pipe and fittings shall be included.
- 2) Verifications of training by the pipe bursting systems manufacturer stating that the operators have been fully trained in the use of the proposed pipe bursting equipment by an authorized representative of the equipment manufacturer.
- 3) Verifications from the pipe manufacturer of training in the proper method of handling and installing the new pipe. Verifications of training by the pipe fusion equipment manufacturers that the operators have been fully trained in the use of the fusion equipment by an authorized representative of the equipment manufacturer.
- 4) Detailed construction procedures, and layout plans to include sequence of construction. Locations, sizes, and construction methods for the service reconnection pits.
- 5) Method of construction, reconnection, and restoration of existing service laterals.
- 6) Methods of modification, if required, for existing sewer access structures.
- 7) Detailed procedures for the installation and bedding of pipe in launching and receiving pits.
- 8) Sewer bypass plans, including detailed methods and a list of equipment to be utilized.
- 9) Contingency plans for the following undesired conditions:
 - a) Unforeseen obstructions causing burst stoppage, such as unanticipated changes in host pipe material, repair sections, concrete encasements or cradles, buried or abandoned manholes, or changes in direction not depicted on maps provided by the City
 - b) Substantial surface heave occurring due to depth of the existing pipe vs. the amount of upsizing
 - c) Damage to existing service connections or replacement pipe
 - d) Damage to other existing utilities
 - e) Loss and return of line and grade
 - f) Soil heave or settlement.

ARTICLE 510.6 DELIVERY, STORAGE, AND HANDLING

The Contractor shall transport, handle, and store pipe and fittings as recommended by the manufacturer to prevent damage. If new pipe and fittings become damaged before or during installation it shall be repaired or replaced, as recommended by the manufacturer or required by the Engineer at no additional cost to the City. No materials shall be dumped, dropped, pushed, or rolled into any trench. Pipe shall be less than 2 years old at the time of installation.

ARTICLE 510.7 ACCEPTABLE BURSTING EQUIPMENT

Any one of the following equipment will be considered acceptable installation equipment alternate.

HDD/Impactor Pipe Bursting

HDD/Impactor Pipe Bursting creates an impact load in the pipe by applying a "hoop" stress into the pipe, causing it to burst in tension. The Dynamic Bursting system consists of a 24,000, 33,000, or 50,000 class Horizontal Directional Drill and a pneumatic (Air Impactor) or mechanical (Rotary Impactor) bursting tool. Both the Air and the Mechanical Impactor rely on percussive hammering action to break out the old pipe

in which the tool travels. Simultaneously, the new replacement pipe is installed in the void created by the bursting tool. The horizontal directional drill is used to drill from the surface down to, and through, the sections of pipe to be replaced then back up to the surface where the appropriate bursting tool is attached to the drill rod. The horizontal directional drill then pulls the bursting tool into the old pipe providing a constant tension pulling force and maintaining correct line and grade while the tool bursts the pipe. This technique is aimed at the replacement of gravity pipes as well as pressure pipes and is suitable for diameters of 6-inches to 12-inches.

Pneumatic Pipe Bursting

Pneumatic Pipe Bursting is done by creating an impact load in the pipe by applying a "hoop" stress into the pipe causing it to burst in tension. This technique uses a pneumatic bursting head with a properly sized expander, and relies on percussive hammering action to break out the old pipe in which the tool travels. Simultaneously the new replacement pipe is installed into the space created by the pneumatic bursting head and expander. A winch cable is attached to the nose of the bursting head to maintain correct line and grade by providing constant pulling tension and enhancing the percussive force. Winching forces up to 20 tons are typical for this method. This technique is primarily aimed at the replacement of gravity pipes as well as pressure pipes, and has been used in diameters ranging from 4-inches to 54-inches or larger.

Hydraulic Pipe Bursting

Rather than the pipe being burst from the transfer of a pulling or hammering radial force into the plane of the pipe diameter, the bursting head diameter expands, fragmenting the pipe from the inside.

The bursting head is equipped with "petals" that open and close under hydraulic pressure. Using hydraulic cylinders, the bursting head first expands to crack the host pipe, then contracts to allow the winch to pull the pipe string forward, while tension is applied to the nose of the head using a winch cable to maintain directional stability. Hydraulic bursting is primarily used for on-line replacement of sewers and gravity pipelines 6-inches to 20-inches in diameter or larger.

Static Pipe Bursting

In Static Pipe Bursting, a pulling force is applied to a tapered or blunt nosed bursting head through steel rods, chain or cable and new pipe is simply pulled behind the burst head through the old pipe. In this process the old pipe fails in tension created by the radial force applied to the pipe wall by the bursting head. As the bursting head advances, the old pipe is fragmented and compressed into the adjacent soil and the new pipe is simultaneously installed in the void. The static pipe bursting winch equipment is modeled after high-powered hydraulic jacks, mounted horizontally, or a high-tension drum type of winch. Pulling forces of up to 225 tons are typical for this method. In general, this method is used in pipes 4-inches to 40-inches in diameter, or larger.

ARTICLE 511 MATERIAL SPECIFICATIONS

ARTICLE 511.1 PIPE SPECIFICATIONS

10"-inch IPS polyethylene plastic pipe shall be high-density polyethylene pipe and meet the applicable requirements of ASTM F 714 Polyethylene (PE) Plastic Pipe (DR-11) Based on Outside Diameter or AWWA C 906, ASTM D 1248 and ASTM D 3350. All other pipe materials used on the project shall be in conformance with Article 503 of the City of Madison Standard Specifications for Public Works Construction- Latest Edition.

Fusible 8" DIPS AWWA C900 DIPS DR25 with mechanical wye joint to standard PVC fitting is considered an acceptable pipe material for this pipe bursting work.

The size of the proposed pipe burst shall be at the size proposed on the plan set and shall be of its original or greater flow capacity.

The Contractor shall install pipe made of virgin materials. No reworked pipe except that obtained from the manufacturer's own production of the same formulation shall be used.

The new pipe shall be homogenous throughout and shall be free of visible cracks, holes, foreign material, blisters, or other deleterious faults

ARTICLE 511.2 MATERIAL TESTING

The Contractor shall notify the Construction Engineer at the completion of each burst segment. The Construction Engineer may, if they choose, conduct an inspection of the new pipe to determine the condition of the pipe subsequent to the burst.

Any defects that, in the opinion of the Construction Engineer, affect the structural integrity of the pipe shall be repaired or replaced by the Contractor at no additional cost to the City of Madison.

ARTICLE 512 METHOD OF CONSTRUCTION

Pipe bursting shall replace the existing 8-inch vitrified clay pipe minimum 8-inch inside diameter pipe (10" HDPE IPS, DR11 or fusible 8" DIPS C900 pipe DR 25), as specified in Article 511.1 where called for on the plans and specifications.

The pipe bursting tool shall be designed and manufactured to force its way through existing pipe materials by fragmenting the pipe and compressing the old pipe sections into the surrounding soil as it progresses. The bursting unit shall generate sufficient force to burst and compact the existing pipeline. See manufacturer's specifications for tool sizes recommended for various pipe diameters as well as parameters associated with tool sizes for allowable upsizes percentages.

The pipe bursting tool shall be pulled through the sewer by a cable or rods located at the machine pit. The bursting unit shall pull the polyethylene (PE) pipe with it as it moves forward from the insertion pit. The bursting head shall incorporate a shield/expander to prevent collapse of the hole ahead of the new pipe insertion. The pipe bursting unit shall be remotely controlled. Sectional replacement pipe shall be pushed as well as pulled behind the bursting head.

The bursting action of the tool shall increase the external dimensions sufficiently to break the existing pipe and simultaneously expand the surrounding ground sufficiently to permit pulling the new pipe through the annular space.

Videos and TV reports of the sanitary sewer that is planned to pipe burst with this project have been included in Attachment A as well as online at the following website. This information has been made available to you for bidding purposes. If you have problems, DVDs or CDs will also be available upon request. In order to access the videos online, enter the following on your Microsoft Internet Explorer address bar:

<ftp://ftp.cityofmadison.com>

click Page

select Open FTP site in Windows Explorer

Enter the following at the prompt:

Username: cityftp

Password: 2upload!

If you are not prompted, go to the File menu and select Login As and use the following use the following Username/ password combination:

Username: cityftp

Password: 2upload!

After you have accessed the City ftp site, the directory of interest for this project is called COLLEGE COURT PIPE BURSTING. Copy the video files and pdf files onto your hard drive, and the videos are yours to watch for bidding.

If you have problems, the videos and pdfs will be available on DVDs or CDs upon request.

ARTICLE 512.1 LAUNCHING PIT

All pits shall be prepared and shored in an approved manner. For all static rod and cable pull machines, the machine shall be properly braced to resist the horizontal force necessary for the bursting operation. This may require the use of a thrust block with proper structural capabilities. If sewer access structures are used in lieu of pits, they shall be appropriately protected.

ARTICLE 512.2 EXISTING UTILITIES

The City shall provide the Contractor with all available documents relating to the location of utilities adjacent to the pipe to be replaced. Prior to commencing work, the Contractor shall verify the location of all adjacent utilities. The minimum clearance from other utilities shall be two feet. The Construction Engineer may, at their discretion, reduce the minimum clearance.

Unless otherwise noted in the contract documents, settlement or heaving of the ground surface during or after construction will not be allowed. The Contractor is solely responsible for the costs for repairing any surface heaving unless specified otherwise in the contract documents. However, at the discretion of the Construction Engineer, if soil conditions are not favorable and pipe up-sizing is required, a minimal amount of ground heaving may be allowed.

ARTICLE 512.4 PIPE JOINING

The HDPE pipe shall be assembled and joined at the site using the butt-fusion method to provide a leak proof joint. Threaded or solvent-cement joints and connections are not permitted. All equipment and procedures shall be used in strict compliance with the manufacturer recommendations.

Fusion shall be pre-formed by technicians certified by a manufacturer of pipe fusion equipment.

The butt-fused joint shall be true alignment and shall have uniform rollback beads resulting from the use of proper temperature and pressure. The joint shall be allowed adequate cooling time before removal of pressure. The fused joint shall be watertight and shall have tensile strength equal to or greater than that of the pipe. Excess material from butt welds inside pipe shall be removed prior to acceptance. All joints shall be subject to acceptance by the Construction Engineer prior to insertion.

The Contractor shall cut out and replace defective joints at no additional cost to the City. Any section of the pipe with a gash, blister, abrasion, nick, scar, or other deleterious fault greater in depth than ten percent (10%) of the wall thickness (ASTM 585), shall not be used and must be removed from the site. However, a defective area of the pipe may be cut out and the joint fused in accordance with the procedures stated above. In addition, any section of the pipe having other defects such as concentrated ridges, discoloration, excessive spot roughness, pitting, variable wall thickness or any other defect of manufacturing or handling as determined by the Construction Engineer shall be discarded and not used.

Terminal sections of pipe that are joined within the insertion pit shall be connected with a mechanical coupling (e.g. a full-circle stainless repair clamp), electro-fusion couplings (e.g. Central Plastics or equivalent), or a non-shear restraint coupling. All connections shall be in conformance with the manufacturer's installation procedures.

ARTICLE 512.5 BYPASSING OF FLOWS

During execution of the work the Contractor shall be responsible for the continuity of sanitary sewer service to each facility connected to the affected sections of sewer main during and shall also bypass the main sewer flow around the pipe to be replaced, or into adjacent sanitary sewers, if available. The pumps and the bypass lines shall be of adequate capacity and size to handle all flows without sewage backup to private property. The Contractor shall be solely responsible for clean-up, repair, property damage costs, and claims resulting from failure of the diversion system.

The Contractor shall submit a detailed bypass pumping plan to the City Engineer for approval. At the sole discretion of the Construction Engineer, the Contractor may plug the main line sewer at an existing upstream sewer access structure or reduce flows by any other method specified in the contract documents and approved by the Construction Engineer.

The Contractor shall submit specifications for all pumping equipment to the City for approval. A list of all backup pumping equipment to be held in reserve on the job site will also be submitted. The pumps and bypass lines shall be adequate capacity and size to handle all flows.

Bypass Wastewater pumping required during pipe bursting installation shall be paid for under Bid Item 50361 Wastewater Control.

ARTICLE 512.6 LUBRICATION

Lubrication shall be used if, in the opinion of the Contractor, such lubrication is necessary to ensure the successful completion of the job. The Contractor shall use a lubricant approved by the Construction Engineer. Generally lubricants are used in pipe bursting when the new pipe is equal to or greater than two (2) times the diameter of the existing pipe, the burst length exceeds 300 feet, the diameter of new pipe exceeds 12-inches, or the host pipe is under ground water. All lubrication required for installation of the pipe shall be considered incidental to pipe bursting.

ARTICLE 512.7 SERVICE RECONNECTION

All sanitary laterals shall be reinstated by open pit excavation. There are no anticipated lateral reinstatement within the proposed pipe burst.

The Contractor shall reconnect all service connections, after a suitable relaxation period, as approved by the Construction Engineer. Prior to any reconnection of service lines, the installed pipe shall be allowed to cool and relax for the recommended amount of time, as specified by the manufacturer. Service connections shall be reconnected to the pipe using connectors approved by the pipe manufacturer and in conformance with the specified installation procedures. Service connections shall be wrap around saddle (FERNCO), cast iron with gasket, tee connection (Inserta-T), or electro fusion (Central Plastics, Phillips, Driscopipe, or Plexco), or an approved equivalent.

Connections to the existing service pipe shall utilize flexible couplings. All flexible couplings shall conform to ASTM C 425. Joint deflection limits and lateral connections shall meet the maximums indicated in ASTM C 12 and C 425.

The slope of the existing laterals toward the newly installed sewer main shall be maintained at the existing percent of grade. For reconstructed laterals, a minimum slope of two percent (2%) or a slope specified by the Engineer is required. The pipe diameter of the proposed lateral shall be a minimum of 4 inches in diameter, and under no circumstances shall the new lateral be smaller than the existing lateral.

Connection of the new service lateral to the mainline shall be accomplished by means of a compression-fit service connection. The service connection shall be specifically designed for connection to the sewer main being installed, and shall be an Inserta TEE or equivalent, and installed using procedures and equipment referenced in written installation instructions provided by the manufacturer.

Connection Types Available for All Mainlines		
TYPES	GASKETTED BELL SDR 35	GASKETTED BELLIPS/SCH 40
PVC Hub	ASTM D3034 SDR 35	ASTM D3034 SDR 26
Rubber Boot	ASTM C443	ASTM C443
Band	301 SS	301 SS
Screw	305 SS	305 SS
Housing	301 SS	301 SS
Gasket	ASTM F477	ASTM F477

ARTICLE 512.9 RESTORATION

EXCAVATION PIT/ UTILITY POTHOLING RESTORATION

The Contractor shall restore all launching/ excavation pits/ utility verification potholing pits and associated surface areas to their original condition or as required by the Construction Engineer and specified in the description of work. Disturbed areas on private property shall be restored according to property owner specifications, within reason.

Prior to backfilling lateral and launching pits, the Contractor shall ensure that the new pipe is properly supported and on the required grade. Select fill, or other suitable material approved by the Construction Engineer, shall be used immediately under the new pipe to provide support and avoid sagging after backfill and compaction. Backfill shall comply with Article 502.1(e) of the Standard Specifications.

The surface repair of Pit Restoration, such as concrete work, pavement work, topsoil, seeding and mulching shall be paid for under the appropriate bid item included in the street reconstruction contract.

ARTICLE 513 FIELD TESTING

After the existing sewer is completely replaced, the Contractor shall perform an internal inspection with a television camera and DVD. All inspection shall be per PACP standards. Contractor shall be required to deliver the files in the PACP naming standards. A digital version of the televising log shall be produced using the standard NASSCO PACP transfer file (Access Database file) that is exported from the NASSCO PACP certified software. The corresponding database file format shall be delivered in digital format. The finished video shall be continuous over the length of the sewer between two manholes, or as specified by the Construction Engineer.

The newly installed pipe shall be visibly free of defects, which may affect the integrity or strength of the pipe. If in the opinion of the construction Engineer, such defects exist, the pipe shall be repaired or replaced at the expense of the Contractor.

Any pipe section with a gash, blister, abrasion, nick, scar, or other deleterious fault greater in depth than ten percent (10%) of the wall thickness shall not be used and must be removed from the site.

All testing shall be considered incidental to pipe bursting.

CCTV INSPECTIONS

The Contractor shall perform post installation internal television inspections upon completion of the project. The video of each sewer line reach shall include description and printed stationing of service lateral locations. Personnel trained to locate and identify breaks, obstacles, and service connections by closed circuit color television shall perform all such inspections. The Contractor shall repair all defects at no additional cost to the City.

Post construction DVDs will be submitted to City Engineering for review prior to final payment. Should any portion of the inspection videos be of inadequate quality or coverage, as determined by the Construction Engineer, the Contractor will re-inspect the unacceptable portion at no additional expense to the City. All original DVDs will become, and remain, the property of City Engineering. The Contractor may retain a second copy.

CCTV inspections shall be considered incidental to pipe bursting.

AIR TEST

The pipe shall be tested with low pressure air in accordance with ASTM C828. Tests shall be made in the presence of the Contractor and the Engineer. If the pipe fails the air test, the Contractor shall locate the source(s) of the leak and repair the defect(s). The pipe shall then be retested until a satisfactory result is obtained. Despite any previous testing, any leaks developed before the end of the 1-year guarantee period shall be expeditiously repaired by the Contractor at no expense to the City.

New Sewer Access Structures shall be pressure tested per the Engineer's requirements.

BID ITEM 50227 – UTILITY TRENCH PATCH TYPE IV

Utility Trench Patch Type IV is required on the streets in this contract and areas that will be pulverized for work relating to underground utility excavation.

BID ITEM 50353 & 50355 - SANITARY SEWER LATERAL & SANITARY SEWER LATERAL-PRESSURE PIPE

Sanitary sewer laterals shown on the construction plans were located by City television inspection and records only.

Where the existing sanitary sewer laterals are being extended to connect to the new sanitary sewer main (being installed in a different location as the existing main), pipe plugs shall be required to plug the existing sanitary sewer main on both sides of the old lateral location. The pipe plugs shall be considered incidental to the bid price for SANITARY SEWER LATERAL. All work associated with this bid item shall comply with Article 503 of the Standard Specifications.

Per the City of Madison Standard Specifications for sanitary sewer lateral construction on street reconstruction projects, Contractors are encouraged to begin installation of sanitary lateral pipe at the proposed sewer main. If Contractor starts excavation for the lateral at the property line, it shall be at the Contractor's risk. No Utility Line Openings (ULOs) will be granted for the inability to locate the sanitary lateral at the property line. Any extra sidewalk removal will not be compensated to the Contractor looking for an existing sanitary lateral at the property line. Contractors are encouraged to 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.

Proposed sanitary lateral locations near trees are subject to change based upon data obtained in the field and property owner involvement. Excavation near trees shall comply with Article 107.13 of the Standard Specifications. If 5 ft of separation from the tree to the excavation cannot be maintained, lateral

replacement shall stop at the curb.

Each sanitary sewer lateral shall have a maximum of 4 sidewalk squares (106 sf) removed and replaced. No additional compensation shall be awarded beyond this amount for the replacement of a sewer lateral.

BID ITEM 50356 & 50357 – RECONNECT SANITARY LATERAL & RECONNECT SANITARY LATERAL-PRESSURE PIPE

All work under this bid item shall be done in accordance with Article 503 of the City of Madison Standard Specifications for Public Works Construction, latest addition. Lateral risers shall be installed in conformance with the S.D.D. 5.3.1 and made payable as Reconnect (Bid Item 50356 & 50357) and Sanitary Sewer Lateral (Bid Item 50353 & 50355)

The first 5 feet of sewer lateral pipe/ fittings measured from the sewer main shall be considered the reconnect for all sewer lateral reconnections. Lateral connections to sewer access structures shall be paid for separately as a sanitary tap. 5' of lateral pipe is not considered incidental to the sanitary tap connection.

BID ITEM 50390 – SEWER ELECTRONIC MARKERS

With regard to the City of Madison Standard Specifications for Public Works Construction 2020 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.

Per the City of Madison Standard Specifications for Public Works Construction 2020 Edition Section 507.3(c), each private storm sewer lateral shall have an electronic marker ball installed at the capped end location on the private property line.

BID ITEM 50797 - EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL

DESCRIPTION

Where called out for on the plan or by the Engineer, barrel joints shall be sealed on sanitary sewer structures around the outside circumference of the Sewer Access Structure. Manhole joint seal shall be minimum of nine (9) inches wide. The seal shall consist of flexible rubberize seal conforming to ASTM C923 held in place with stainless steel compression bands or butyl adhesive tape conforming to ASTM C877 or heat shrink sleeve over visco-elastic adhesive sealant.

Acceptable products and manufacturers are the following:

1. Mac Wrap, Mar Mac Manufacturing Company, Inc.
2. NPC External Joint Seal, NPC, Inc.
3. EZ-Wrap, Press-Seal Gasket Corporation
4. Riser-Wrap, Pipeline Seal and Insulator

Alternate manufacturers and products not listed above are subject to pre-approval by the Engineer

METHOD OF MEASUREMENT

External Sanitary Sewer Access Structure Joint Seal shall be measured separately as each for each sewer structure wrapped.

BASIS OF PAYMENT

External Sanitary Sewer Structure Joint Seal will be paid for at the contract price, and is considered full compensation for all work as listed above.

BID ITEM 50801 – UTILITY LINE OPENING (ULO)

The work under this item shall be completed in accordance with Article 508 of the Standard Specifications for Public Works Construction. 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 apart.

BID ITEM 90001 - PRIVATE STORM DRAINPIPE CONNECTION – TYPE A

DESCRIPTION

The parcel 1002 College Ct has eleven (11) downspout storm connections discharging toward the public College Ct right of way. The property owner, or property management will mark the locations where they currently discharge. Type A connection includes coring the top of the 12x5 box culvert (RCBC) for each extended downspout, extending and connection the PVC downspout with a boot. The area must be restored with topsoil and seeding. Mark each connection with an electronic marker ball.

Please contact Trav Hardy, Forward Management, Inc, (608) 285-8679, travh@rentfmi.com with questions in regard to existing downspout connections.

METHOD OF MEASUREMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE A shall be measured by EACH, where each coring, boot, connection, additional PVC pipe & elbows, if necessary, and restoration is completed to the satisfaction of the Construction Inspector.

BASIS OF PAYMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE shall be measured as described above and shall be paid for at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90002 - PRIVATE STORM DRAINPIPE CONNECTION – TYPE B

DESCRIPTION

The parcel 1002 College Ct has eleven (11) downspout storm connections discharging toward the public College Ct right of way. The property owner, or property management will mark the locations where they currently discharge. Type B connection includes coring the top of the 12x5 box culvert (RCBC) for an 8-inch PVC pipe header connection with cleanouts on each end. Install an 8-inch PVC header above the 12x5 RCBC, as flush as possible, connect extended downspouts with wye. Removal and replacement of sections of private paths may be required, and will be considered incidental to the installation of Type B private storm connection. The area must be restored with topsoil and seeding. Mark each connection with an electronic marker ball.

Please contact Trav Hardy, Forward Management, Inc, (608) 285-8679, travh@rentfmi.com with questions in regard to existing downspout connections.

METHOD OF MEASUREMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE B shall be measured by LUMP SUM, for all work related to installation and restoration including coring, boot, connection, additional PVC pipe, wyes & cleanouts, concrete removal & replacement, and restoration is completed to the satisfaction of the Construction Inspector.

BASIS OF PAYMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE shall be measured as described above and shall be paid for at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90003 – INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, PIPE BURSTING, OR OPEN CUT TRENCH WITH TUNNELING)

DESCRIPTION

Work under this item shall include the installation and material cost to install an 8" DIAMETER SEWER MAIN at proposed slopes. The locations for this bid item are the following: STA 13+20 to STA 13+45, STA 14+65 to 14+90, STA 24+50 to STA 25+00. Other locations shall be completed by open cut sewer replacement.

Sewer main installed under this BID ITEM is included with this bid item.

Options for installing the pipe in this location shall include PUSH METHOD, BORE & JACK, PIPE BURSTING, OR OPEN CUT TRENCH WITH TUNNELING. Regardless of the chosen method, the bid item shall include all equipment, materials, and incidentals required to install the pipe in accord with the following specifications.

PUSH METHOD & BORE & JACK - METHODS

The sanitary sewer casing installed by with this bid item shall be a suitable sized "casing pipe". The casing pipe must be sized by the contractor in order for the inner sanitary sewer pipe to properly fit within the casing pipe. All costs for furnishing and installing the steel casing pipe, casing spacers, access and receiving pits, and all work necessary to push the casing pipe shall be included.

Included in this item is the excavation and backfilling of the receiving pits. Disposal of the excess material shall be by the Contractor off site at a location to be determined by the Contractor. Backfilled material shall meet City of Madison Standard Specifications for road construction- Latest Edition. Necessary work and materials to adequately secure the pits with full cover or security fencing shall be incidental to this bid item.

The Contractor is informed that the casing pipe specified shall be at a minimum of 6" larger than the outside diameter of the carrier pipe. The Contractor is responsible to complete installation of a casing pipe under this item and should he/she deem it necessary to utilize a larger diameter casing pipe that shall be the Contractor's option and is included in this item.

MATERIALS

8" Diameter Sewer in Casing- Push Method/ Bore and Jack shall include all materials necessary to install the 8" sanitary sewer pipe in accord with the requirements above. A casing pipe included with this item shall be in accord with the following:

- ASTM specification A139 Grade B or AWWA specification C200
- Outside diameter as specified by the Contractor
- Not coated or cathodically protected, no hydrostatic testing required
- 0.3125" (5/16") minimum thickness
- Specified minimum yield strength, SMYS, of at least 35,000 psi
- New and unused pipe
- Straight and round pipe
- Beveled ends for butt welding

The Contractor shall submit the following to the Engineer for approval prior to ordering of materials and the start of construction:

- Certificate of compliance for the steel casing pipe
- Materials for sand or pea gravel
- Materials for casing spacers and distances between spacers
- Materials and methods for bulk-heading the casing ends

CONSTRUCTION METHODS- PUSH METHOD

Contractor shall install by pushing the casing into place at the desired grade with a backhoe. Soil caught in the casing while pushing the casing into place will need to be removed by the contractor. Water is permitted for removal of the soil from the inside of the casing pipe. Block Spacers shall be placed on the 8" diameter sanitary sewer carrier pipe to adjust the pipe to the proposed grade. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. After the sanitary sewer is in place at the proper slope, the voids between the sewer main and the casing pipe shall be filled with blown sand or pea gravel into the casing to the spring line of the pipe to provide bedding under the pipe.

The untrenched construction shall be performed by Push Method. Water jacking for excavation of the soil is not allowed. The use of water to facilitate removal of spoil within the pipe after the casing pipe is pushed into place is permitted.

Connection of adjacent lengths of steel pipe shall be done by continuous, circumferential, field butt welding in accordance with AWWA C206. The connection shall result in a straight and true casing with a watertight seal.

The carrier sewer pipe shall be installed on line and grade through the casing pipe. Install approved casing spacers at the approved distances. Fill the annular space between the casing and carrier pipe with the approved material (sand or pea gravel).

Excavation pits shall adjacent to the tunnel shall be backfilled with either pea gravel or slurry backfill after the installation of the sewer and casing pipe is complete.

CONSTRUCTION METHODS- BORE AND JACK

Prior to installing pipe in the casing, a set of four wood blocks shall be strapped to both ends of the pipe five feet (5') from each end. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. Sand or Pea gravel shall be washed or blown into the casing to the spring line of the pipe to provide bedding under the pipe.

The untrenched construction shall be performed by dry auger boring and jacking. Water jacking for excavation of the soil is not allowed. The use of water to facilitate removal of spoil is permitted.

For the casing installation, the bore hole diameter shall be essentially the same as the outside diameter of the pipe. In soft, unstable soil, the auger shall be inside the casing, but no undersized, so as not to create a void between the casing and the soil. If voids should develop or if the bore hole diameter is greater than the outside diameter of the pipe by more than approximately 1 inch, the voids shall be pressure grouted.

Connection of adjacent lengths of steel pipe shall be done by continuous, circumferential, field butt welding in accordance with AWWA C206. The connection shall result in a straight and true casing with a watertight seal.

The conduit pipe shall be installed on line and grade through the casing pipe. Install approved casing spacers at the approved distances. Fill the annular space between the casing and carrier pipe with the approved material (sand or pea gravel).

Take care to ensure that developed thrust pressures do not disturb existing utilities in or around the bore pit area.

CONSTRUCTION METHODS- PIPE BURSTING

Pipe-Burst Install- All equipment, tools, labor, materials, and procedures shall conform to the requirements set forth in Section 510 and 511 of these specifications. Mobilization, replacement, and modification of the sewer access structure inverts, sewage bypassing, field testing, CCTV inspection, and utility exposing shall all be considered incidental to the trenchless pipe replacement. Any excavation and below surface restoration required for launching and receiving pits shall be incidental to pipe bursting.

Fusible 8" Diameter DIPS Fusible C900 DR25 with mechanical wye joint to standard PVC fittings is considered an acceptable alternate for this pipe bursting work. If the Contractor would like to use fusible C900 pipe for the proposed pipe burst, the material specifications shall be submitted and will be subject to approval by City Engineering.

Open Cut Trench with Tunneling- Work shall be completed in accordance with Article 500 of the standard specification for Public Works Construction (Latest Edition), Due to the presence of extensive utilities, at the selected crossings, open cut trench with tunneling is a potential alternate method for this work.

LAUNCHING AND RECEIVING PITS

Work shall include providing a pit excavation to facilitate an area for pipe bursting equipment and an entry area for the new HDPE pipe to enter the host pipe.

Select fill shall be used for backfill paid for separately by the trench foot under Bid Item 50212 - Select Backfill for Sanitary Sewer.

Any repair of curb and gutters, sidewalk and any other surface feature disturbed by a launching pit outside of the scope of the road project shall be considered incidental to pipe bursting.

Contractor shall submit plans showing the locations for the launching and receiving pits to the Engineer a minimum of ten (10) days prior to the commencement of work. Plan shall include depth of pits.

METHOD OF MEASUREMENT

INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, PIPE BURSTING, OR OPEN CUT TRENCH WITH TUNNELING) shall be measured by the linear foot, measured along the longitudinal axis from center of structure to center of structure. Payment will only be granted for sewer that has been installed in accordance with the plans. Back- pitched pipe will not be granted payment.

BASIS OF PAYMENT

INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, PIPE BURSTING, OR OPEN CUT TRENCH WITH TUNNELING) shall be measured as described above and shall be paid for at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90004 - SANITARY SEWER STORM BOX CROSSING

DESCRIPTION

Work under this bid item shall include all work necessary to install a 10" sanitary sewer inside of a steel casing across the floor 13'x 5' box. The floor and walls of the base of the box shall be sawcut removed in order to install the sewer inside of a casing.

10" sanitary sewer main installed within the box crossing is included with this BID ITEM.

Storm water control for installation shall be paid under BID ITEM 90005 STORM WATER CONTROL

MATERIALS- CASING

- ASTM specification A139 Grade B or AWWA specification C200
- Outside diameter as specified by the Contractor
- Not coated or cathodically protected, no hydrostatic testing required
- 0.3125" (5/16") minimum thickness
- Specified minimum yield strength, SMYS, of at least 35,000 psi
- New and unused pipe
- Straight and round pipe
- Beveled ends for butt welding

The Contractor shall submit the following to the Engineer for approval prior to ordering of materials and the start of construction:

- Certificate of compliance for the steel casing pipe
- Materials for sand or pea gravel
- Materials for casing spacers and distances between spacers
- Materials and methods for bulk-heading the casing ends

CONSTRUCTION METHODS

CASING WORK

Block Spacers shall be placed on the 10" diameter sanitary sewer carrier pipe to adjust the pipe to the proposed grade. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. After the sanitary sewer is in place at the proper slope, the voids between the sewer main and the casing pipe shall be filled with blown sand or pea gravel into the casing to the spring line of the pipe to provide bedding under the pipe.

BOX RESTORATION

Place riprap filter fabric, type HR below 15" thick bedding of 3" clear stone. Install casing and 10" sanitary sewer pipe. Place plastic joint strips (Superior Profiles ZipStrap or equal) at interface of existing and new floor. Backfill with Type B slurry before placing rebar for floor reinforcement.

Contractor shall replace removed wall and floor with reinforced concrete.

- 1) The walls and floor replaced shall be reinforced with #6 bars on 8" on centers in both directions.
- 2) Floor thickness shall be 8" above the casing

Roof repair shall be completed and paid for with BID ITEM 50102 RCBC ROOF REPAIR, TYPE II and per S.D.D. 5.1.2.

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

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

METHOD OF MEASUREMENT

SANITARY SEWER STORM BOX CROSSING shall be measured by the LUMP SUM.

BASIS OF PAYMENT

SANITARY SEWER STORM BOX CROSSING shall be measured as described above and shall be paid at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90005 – STORM WATER CONTROL

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals required to control dry and wet weather flow in the storm sewer system during the reconstruction project. The Contractor shall take all necessary steps to protect the new and existing storm mains from damage during construction and to accommodate the existing flows during construction. This item includes all storm control necessary for all aspects of the construction.

Dewatering and storm water control is anticipated with the box tap at the N Brooks St and College Ct intersection and with the Sanitary Sewer Storm Box Crossing.

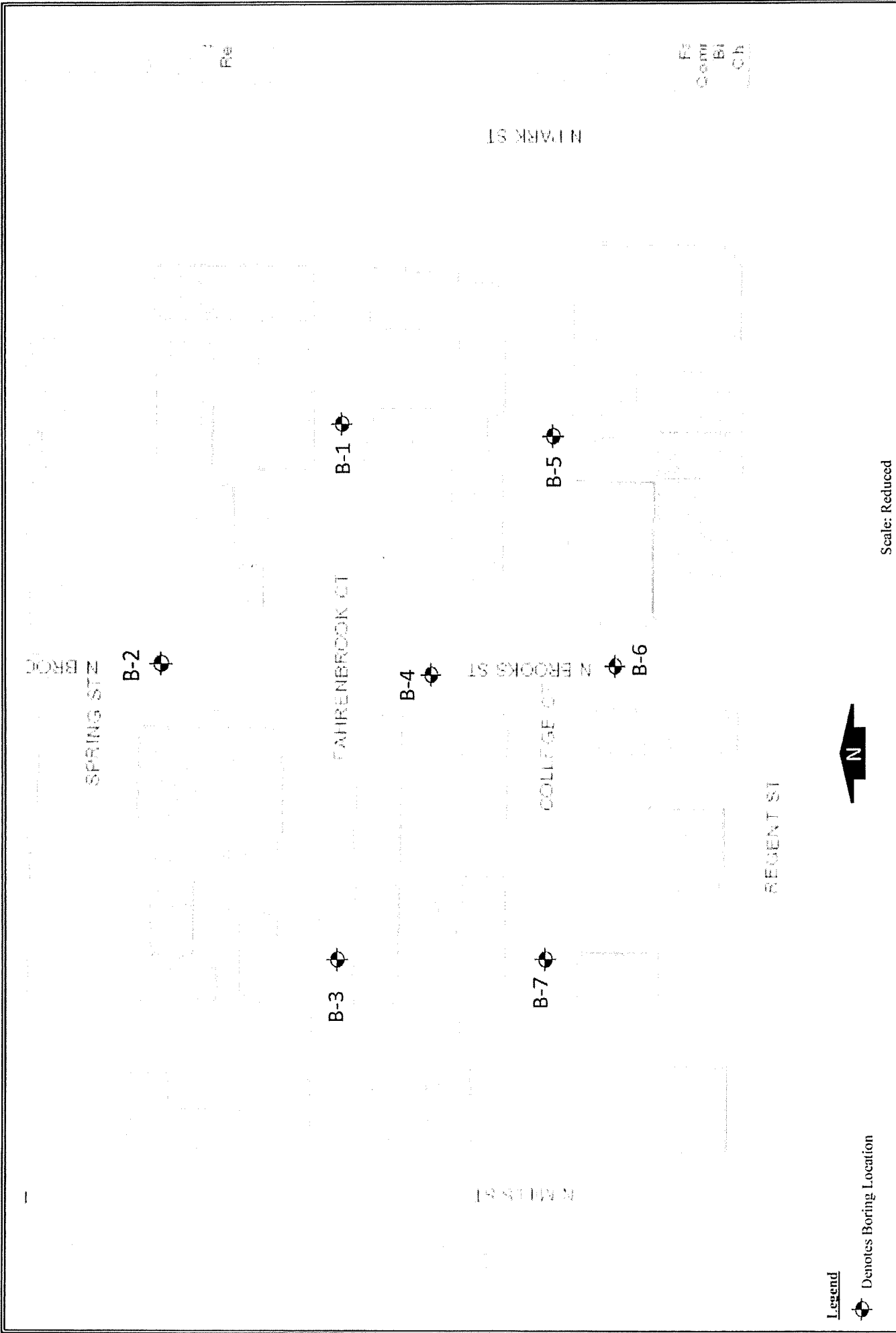
It is advised that the Contractor visit the site prior to bidding to determine then type of storm water controls that will be necessary for the sanitary sewer main installation.

METHOD OF MEASUREMENT

STORM WATER CONTROL shall be measured by lump sum for all work necessary throughout construction to control storm water flows.

BASIS OF PAYMENT

STORM WATER CONTROL shall be considered full compensation at the contract price for all work, materials, and incidentals to complete the work as described above.



Soil Boring Location Map
College Court Area
Madison, WI

CGC, Inc.

Date:	11/2020
Job No.	C20051-21

Scale: Reduced

Legend
 Denotes Boring Location

Notes
 1. Boring locations are approximate
 2. Soil Borings performed by Badger State Drilling in November 2020





LOG OF TEST BORING

Project College Court Area
 Location Fahrenbook: 160'E of Brooks, 5'N of CL
Madison, WI

Boring No. **B-1**
 Surface Elevation (ft) 852±
 Job No. C20051-21
 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.	REMARKS	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					6.5 in. Asphalt Pavement/9 in. Base Course					
1		12	M	12	FILL: Medium Dense Brown Sand with Silt and Gravel to 3'					
2		10	M	4	Loose to Very Loose Dark Gray Organic Sand with Trace Gravel to 5'					
3		0	W	4	Loose to Very Loose, Dark Brown to Black Fibrous PEAT (PT)					
4		18	W	4			378.8			81.7
5		18	W	1	Very Loose, Gray Organic SILT (OL)		128.0			11.6
6		18	W	4	Very Soft, Gray Silty to Organic CLAY (CL-ML/OL)	(<0.2)	48.7			2.9
7		18	W	6	Soft to Medium Stiff, Gray Lean CLAY (CL)	(0.50)				
					End Boring at 17.5 ft					
					Borehole Backfilled with Bentonite Chips and Asphalt Patch					

WATER LEVEL OBSERVATIONS

While Drilling ∇ 6.0' Upon Completion of Drilling _____
 Time After Drilling _____
 Depth to Water _____
 Depth to Cave in _____

GENERAL NOTES

Start 11/4/20 End 11/4/20
 Driller BSD Chief MC Rig CME-55
 Logger DC 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 College Court Area
 Brooks: 65'S of Spring, 10'E of CL
 Location Madison, WI

Boring No. **B-2**
 Surface Elevation (ft) 851±
 Job No. C20051-21
 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.	Rsc (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LOI
					7 in. Asphalt Pavement/9 in. Base Course					
1	8	M	4		FILL: Soft to Medium Stiff Brown Clay with Little Sand					
2	10	M	3		Very Loose, Black Sedimentary to Fibrous PEAT (PT)					
3	12	W	7		Loose, Gray SILT, Trace Sand and Clay (ML)					
4	14	W	7		Becoming Light Brown and Having Trace to Little Clay with Depth					
5	16	W	7							
6	18	W	9		Soft to Medium Stiff, Gray Laminated Lean and Silty CLAY, Occasional Silt Seams (CL-ML)	(0.50)				
				15	End Boring at 15 ft					
					Borehole Backfilled with Bentonite Chips and Asphalt Patch					
				20						

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling ∇ 10.0' Upon Completion of Drilling 9.2'
 Time After Drilling _____ 30 Min.
 Depth to Water _____ 7.5' ∇
 Depth to Cave in _____ 12.5'

Start 11/4/20 End 11/4/20
 Driller BSD Chief MC Rig CME-55
 Logger DC 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 College Court Area
Fahrenbrook: 225'W of Brooks, 5'S of CL
 Location Madison, WI

Boring No. **B-3**
 Surface Elevation (ft) 852±
 Job No. C20051-21
 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.	REMARKS	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					6 in. Asphalt Pavement/9 in. Base Course					
1		16	M	10	FILL: Stiff Brown Clay with Sand	(1.50)				
2		18	M	4	Loose to Very Loose, Black Sedimentary to Fibrous PEAT (PT)					
3		18	M	3	Soft, Gray Organic CLAY (OL)	(0.3)				
4		18	M	4	Very Soft to Stiff, Light Brown Lean CLAY (CL)	(0.25)				
5		18	M	5		(0.75)				
6		18	W	8		(1.0)				
					End Boring at 15 ft					
					Borehole Backfilled with Bentonite Chips and Asphalt Patch					

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling ∇ 12.5' Upon Completion of Drilling 12.5'
 Time After Drilling _____ 30 Min.
 Depth to Water _____ 12.3' ∇
 Depth to Cave in _____

Start 11/4/20 End 11/4/20
 Driller BSD Chief MC Rig CME-55
 Logger DC 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 College Court Area
Brooks: 75'S of Fahrenbrook, 10'W of CL
 Location Madison, WI

Boring No. **B-4**
 Surface Elevation (ft) 851±
 Job No. C20051-21
 Sheet 1 of 1

2921 Farry 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 _u (qa) (tsf)	w	LL	PL	LOI
					X	6 in. Asphalt Pavement/9 in. Base Course				
1	16	M	49		X	FILL: Dense Brown Crushed Aggregate to 3'				
					X	Dark Gray to Black Sand with Silt, Gravel and Cinders to 6'				
2	18	M	11		X	Dark Gray to Black Sand with Silt, Gravel and Cinders to 6'				
				5	X	Medium Stiff Greenish Gray Clay to 8'				
3	5	M/W	5		X	Medium Stiff Greenish Gray Clay to 8'				
					X	Very Loose Sand and Peat with Gravel to 10'				
4	6	W	2		X	Very Loose Sand and Peat with Gravel to 10'				
				10	X	Very Loose to Loose, Dark Brown to Black Sedimentary to Fibrous PEAT (PT)				
5	18	M	2		X	Very Loose to Loose, Dark Brown to Black Sedimentary to Fibrous PEAT (PT)				
					X	Very Loose to Loose, Dark Brown to Black Sedimentary to Fibrous PEAT (PT)				
6	18	M	5		X	Very Loose to Loose, Dark Brown to Black Sedimentary to Fibrous PEAT (PT)				
				15	X	End Boring at 15 ft				
					X	Borehole Backfilled with Bentonite Chips and Asphalt Patch				
				20	X	Borehole Backfilled with Bentonite Chips and Asphalt Patch				

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling ∇ 9.0' Upon Completion of Drilling 8.6'
 Time After Drilling _____ 30 Min.
 Depth to Water _____ 7.9' ∇
 Depth to Cave in _____

Start 11/4/20 End 11/4/20
 Driller BSD Chief MC Rig CME-55
 Logger DC 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 College Court Area
 College: 150'E of Brooks, 5'N of CL
 Location Madison, WI

Boring No. **B-5**
 Surface Elevation (ft) 852±
 Job No. C20051-21
 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
					7 in. Asphalt Pavement/8 in. Base Course					
1	12	M	14		FILL: Medium Dense Crushed Aggregate					
					Becoming Loose and Mixed with Topsoil Near 3'					
2	6	M/W	7							
3	16	M	4		Loose to Very Loose, Dark Brown to Black Sedimentary to Fibrous PEAT (PT)					
4	18	M	2							
5	18	M	2		Very Loose, Gray Organic SILT (OL)					
6	18	M	2							
				15	End 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 _____ **15 Min.**
 Depth to Water _____ **NW** ▼
 Depth to Cave in _____

Start 11/4/20 End 11/4/20
 Driller BSD Chief MC Rig CME-55
 Logger DC 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 College Court Area
 Brooks: 35'S of College, 10'E of CL
 Location Madison, WI

Boring No. **B-6**
 Surface Elevation (ft) 852±
 Job No. C20051-21
 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 _u (qa) (tsf)	w	LL	PL
					6 in. Asphalt Pavement/8 in. Base Course					
1		16	M	30	FILL: Dense Brown Crushed Aggregate to 3'					
					Loose Brown Sand with Clay and Gravel to 5.5'					
2		16	M	7						
					Loose to Very Loose, Black Sedimentary to Fibrous PEAT (PT)					
3		18	M	4						
					Very Loose, Gray Organic SILT (OL)					
4		18	M	2						
					Soft to Medium Stiff, Gray Lean CLAY (CL)	(0.3)				
5		18	M/W	2						
					End Boring at 15 ft					
6		18	W	4	Borehole Backfilled with Bentonite Chips and Asphalt Patch	(0.75)				

WATER LEVEL OBSERVATIONS

GENERAL NOTES

While Drilling ∇ 13.5' Upon Completion of Drilling 13.5'
 Time After Drilling _____ 15 Min.
 Depth to Water _____ 13' ∇
 Depth to Cave in _____

Start 11/4/20 End 11/4/20
 Driller BSD Chief MC Rig CME-55
 Logger DC 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 College Court Area
 College: 160'E of Mills, 5'S of CL
 Location Madison, WI

Boring No. **B-7**
 Surface Elevation (ft) 851±
 Job No. C20051-21
 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 _u (qa) (tsf)	W	LL	PL	LOI
					5 in. Asphalt Pavement/10 in. Base Course					
1	14	M	12		FILL: Medium Dense to Very Dense Dark Gray to Black Sand with Silt, Gravel and Cinders to 3'					
2	6	M	3		Very Loose Brown Fine to Coarse Sand, Trace Clay and Gravel to 5'					
				5	Very Loose, Gray Organic SILT (OL)					
3	18	M	2							
				10	Very Soft, Dark Gray Gray Lean CLAY (CL)	(0.2)				
4	18	M	2							
				15	Very Soft to Medium Stiff, Gray Lean CLAY (CL)	(0.5)				
5	18	W	1							
				20	End Boring at 15 ft					
6	18	M/W	5		Borehole Backfilled with Bentonite Chips and Asphalt Patch	(0.25)				

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling ∇ <u>11.0'</u> Upon Completion of Drilling _____ Time After Drilling _____ <u>30 Min.</u> Depth to Water _____ <u>11.3'</u> ∇ Depth to Cave in _____	Start <u>11/4/20</u> End <u>11/4/20</u> Driller <u>BSD</u> Chief <u>MC</u> Rig <u>CME-55</u> Logger <u>DC</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.	



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Engineering Division
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Deputy City Engineer
 Gregory T. Fries, P.E.
Deputy Division Manager
 Kathleen M. Cryan
Principal Engineer 2
 Christopher J. Petykowski, P.E.
 John S. Fahrney, P.E.
 Janet Schmidt, P.E.
Principal Engineer 1
 Christina M. Bachmann, P.E.
 Mark D. Moder, P.E.
 James M. Wolfe, P.E.
Facilities & Sustainability
 Bryan Cooper, Principal Architect
Mapping Section Manager
 Eric T. Pederson, P.S.
Financial Manager
 Steven B. Danner-Rivers

April 13, 2021

**NOTICE OF ADDENDUM
 ADDENDUM NO. 1
 CONTRACT NO. 8576**

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING
 ASSESSMENT DISTRICT - 2021**

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

PAGE A-1, SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS:

Remove and replace with attached Page A-1. The Bid Submission and other dates have been modified.

SPECIAL PROVISIONS:

SECTION 109.2 PROSECUTION OF THE WORK

First sentence in the section shall be changed to "The Contractor shall begin work on or before June 14, 2021"

SECTION 107.7 MAINTENANCE OF TRAFFIC

Add the heading and the two paragraphs below after the fourth paragraph, the existing language is to remain the same.

Sanitary Sewer connection within Regent Street:

The work to complete the sanitary connection in Regent Street shall only occur on one weekend—from 8:30 a.m. on a Friday until the following Monday. Reopen all traffic lanes on Regent Street by 3:00 p.m. on Monday.

Traffic control for this work shall consist of both directions of Regent Street traffic on the south half of the street. Restrict all left turns at the intersection. Eastbound and westbound Regent Street traffic shall be separated using flexible, tubular delineators spaced at a maximum of 10 feet through the Brooks Street intersection. Electronic, flashing arrow boards, and traffic barrels with Type "C" steady burn lights shall be used on the Regent Street lane tapers for both directions of travel. Maintain the Metro Transit bus stops on Regent Street. Notify Ali Heinritz, ahleinritz@cityofmadison.com, at least one week prior the sanitary connection.

PROPOSAL:

A summary of the changes to the proposal is as follows:

ACTION	BID ITEM	DESCRIPTION
ADD	50225	UTILITY TRENCH PATCH TYPE III

Please see Bid Express for bid item quantity.

PLANS:

Remove and replace attached page P-1: Updated plans with new pavement limits and a trench patch type III.

FUTURE ADDENDUM:

An additional addendum will be issued prior to April 27, 2021. The addendum will include sanitary sewer revisions showing active lateral locations located via dye testing, reduced proposed sewer main and structure installation, and revised reinforcement plan for sanitary sewer storm box crossing with roof replacement details and instructions.

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,

A handwritten signature in blue ink, appearing to read "R. F. Phillips", with a long horizontal flourish extending to the right.

for:

Robert F. Phillips, P.E., City Engineer

Cc: Greg Fries

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:	NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO.:	8576
SBE GOAL	5%
BID BOND	5%
SBE PRE BID MEETING	See Pre Bid Meeting info below
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	4/22/2021
BID SUBMISSION (2:00 P.M.)	4/29/2021
BID OPEN (2:30 P.M.)	4/29/2021
PUBLISHED IN WSJ	4/1, 4/8, 4/15 & 4/22/2021

SBE PRE BID MEETING: Small Business Enterprise Pre-Bid Meetings are not being held in person at this time. Contractors can schedule one-on-one phone calls with Juan Pablo Torres Meza in Affirmative Action to count towards good faith efforts. Juan Pablo can be reached at 608-261-9162 or by email, jtortesmeza@cityofmadison.com.

PREQUALIFICATION APPLICATION: Forms are available on our website, www.cityofmadison.com/business/pw/forms.cfm. 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.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

The process for submission of bids has not changed. Bids may be submitted on line through Bid Express or in person at 1600 Emil St. Please note that the doors at 1600 Emil St. are locked, but there is a sign with phone numbers on the door. Please call one of the numbers and staff will come to the door to get your bid. Until further notice, the bid openings will be closed to the public to support the guidance of social distancing as the City responds to responsively to COVID-19 impacts to services. 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.

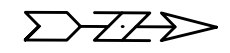
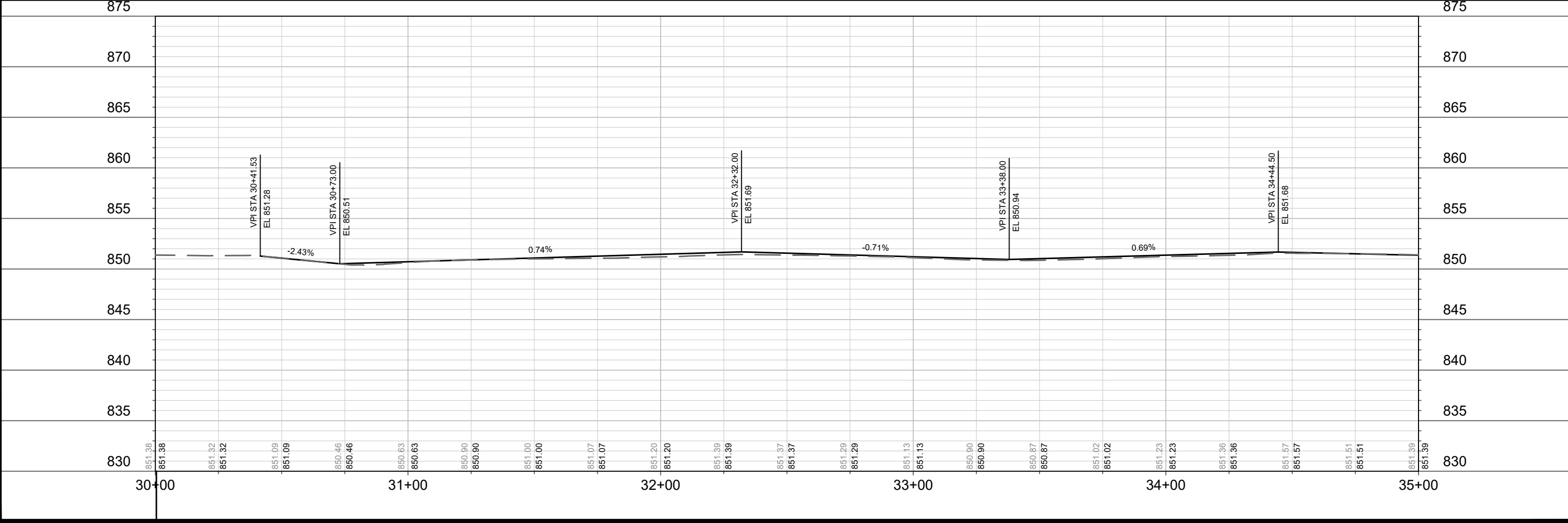
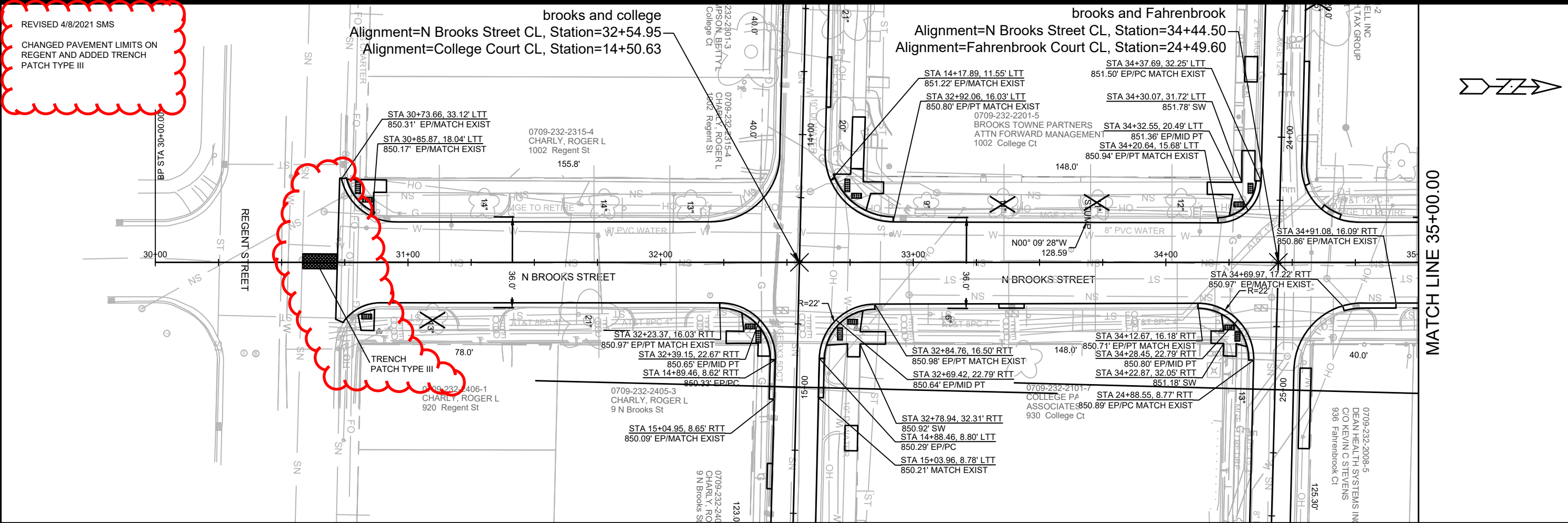
STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2021 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/Business/PW/specs.cfm.


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.

REVISED 4/8/2021 SMS
CHANGED PAVEMENT LIMITS ON
REAGENT AND ADDED TRENCH
PATCH TYPE III



PLAN & PROFILE NORTH BROOKS STREET
N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021 MADISON, WI
13180
P-1

Contract No: 8576
Scale: #/###/###
Date: #/##/##
Revision: #/###/###
Mark: #/###/###
By: #/###/###
P-1





Department of Public Works
Engineering Division
Robert F. Phillips, P.E., City Engineer
City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
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Deputy City Engineer
Gregory T. Fries, P.E.
Deputy Division Manager
Kathleen M. Cryan
Principal Engineer 2
Christopher J. Petykowski, P.E.
John S. Fahrney, P.E.
Janet Schmidt, P.E.
Principal Engineer 1
Christina M. Bachmann, P.E.
Mark D. Moder, P.E.
James M. Wolfe, P.E.
Facilities & Sustainability
Bryan Cooper, Principal Architect
Mapping Section Manager
Eric T. Pederson, P.S.
Financial Manager
Steven B. Danner-Rivers

April 27, 2021

**NOTICE OF ADDENDUM
ADDENDUM NO. 2
CONTRACT NO. 8576**

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING
ASSESSMENT DISTRICT - 2021**

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

PAGE D-1 to D-21, SECTION D: SPECIAL PROVISIONS:

Remove and replace with attached Page D-1 to D-16. Bid items 21031 was added, Article 500 was revised, Article 510 was removed, bid item 50361 was added, bid items 90003, 90004 and 90005 were revised, and bid item 90006 was added.

SPECIAL PROVISIONS:

BID ITEM 21031 – INLET PROTECTION, TYPE C - COMPLETE

Type C inlet protection shall be allowed where it is not possible to install RIGID FRAME INLET PROTECTION. Installation shall be approved by the Construction Engineer, inspected weekly, and maintained or replaced when there is debris or damage.

ARTICLE 500 - SEWER AND SEWER STRUCTURES GENERAL

Reference to station crossings on Fahrenbrook Ct removed. References to pipe bursting removed. Added note to state that active sanitary laterals have been dye tested and located within the project limits.

BID ITEM 50361 – WASTEWATER CONTROL

Provides expanded description and scope for wastewater controls.

ARTICLE 510 – SEWER PIPE BURST REHABILITATION OF SANITARY SEWER

Article 510 was removed to eliminate references to pipe bursting. Pipe bursting cannot be completed for the proposed sanitary sewer design.

BID ITEM 90003 – INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING)

References to pipe bursting methods were removed from the BID ITEM.

BID ITEM 90004 – SANITARY SEWER STORM BOX CROSSING

This specification has revised information and details for the Description, Materials, and Construction Methods sections.

BID ITEM 90005 – STORM WATER CONTROL

Adds the text “It may be necessary to provide access to the existing storm box to install dewatering measures. Location of the top slab access hole, if required, shall be determined by Contractor. If top slab access opening is used, reconstruct the top slab as shown on the detail drawings (see sheet D-3). Reconstruction of top slab shall be included with this BID ITEM.”

BID ITEM 90006 – RCBC TOP SLAB OPENING

This BID ITEM was added to provide specific details for box culvert top slab replacement and reinforcement.

PROPOSAL:

A summary of the changes to the proposal is as follows:

ACTION	BID ITEM	DESCRIPTION
ADD	20401	CLEARING
ADD	20406	GRUBBING
DELETE	50201	RCBC ROOF REPAIR, TYPE II
ADD	90006	RCBC TOP SLAB OPENING
MODIFY	20127	CLEAR STONE
MODIFY	20241	RIPRAP FILTER FABRIC, TYPE HR
MODIFY	20311	REMOVE SEWER ACCESS STRUCTURE (SANITARY)
ADD	20314	REMOVE PIPE
ADD	20331	ABANDON SEWER ACCESS STRUCTURE
MODIFY	20335	ABANDON SEWER PIPE WITH SLURRY
MODIFY	40321	UNDERCUT
MODIFY	50212	SELECT BACKFILL SANITARY SEWER
ADD	50225	UTILITY TRENCH PATCH TYPE III
MODIFY	50227	UTILITY TRENCH PATCH TYPE IV
MODIFY	50301	8 INCH PVC SEWER PIPE
MODIFY	50302	10 INCH PVC SEWER PIPE
ADD	50303	12 INCH PVC SEWER PIPE
MODIFY	50321	8 INCH PVC PRESSURE SANITARY SEWER PIPE
MODIFY	50353	SANITARY SEWER LATERAL
MODIFY	50355	SANITARY SEWER LATERAL - PRESSURE PIPE
MODIFY	50356	RECONNECT
DELETE	50357	RECONNECT - PRESSURE PIPE
MODIFY	50390	SEWER ELECTRONIC MARKERS
MODIFY	50701	4' DIA SANITARY SAS
MODIFY	50771	INTERNAL CHIMNEY SEAL
MODIFY	50791	SANITARY SEWER TAP
MODIFY	50797	EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL
MODIFY	50801	UTILITY LINE OPENING (UNDISTRIBUTED)
MODIFY	90003*	INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING)*

Please see Bid Express for bid item quantity.

* BID ITEM name changed to match revised specification

PLANS:

Add attached page D-3: Reinforced Concrete Box Culvert Modifications for sanitary sewer box crossing and top slab replacement.

Add attached page D-4: Existing MMSD sanitary sewer structure detail for Contractor reference.

Remove and replace attached page U-1 to U-8: Updated plans with revised sanitary sewer layout.

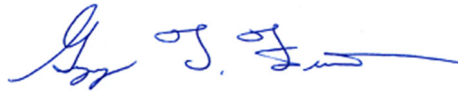
Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

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

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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,

A handwritten signature in blue ink, appearing to read "R. F. Phillips", with a long horizontal flourish extending to the right.

for:
Robert F. Phillips, P.E., City Engineer

Cc: Greg Fries

SECTION D: SPECIAL PROVISIONS

NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING ASSESSMENT DISTRICT -2021 CONTRACT NO. 8576

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 \$65,000 for a single trade contract; or equal to or greater than \$318,000 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, replacing sanitary and storm sewer, removing and replacing concrete curb and gutter, sidewalk and drive aprons, excavation cut, crushed aggregate base course, and asphalt pavement as noted in the specifications and on the plans.

The Contractor shall view all 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.

North Brooks Street, Fahrenbrook Court and College Court

Work shall include removing and replacing curb & gutter, drive aprons and sidewalks that are in poor condition, storm sewer improvements and sanitary replacements. The street will be paved with 1.75" Bituminous lower layer, 4 LT 58-28S and 1.75" Bituminous upper layer, 4 LT 58-28S.

SECTION 104.4 INCREASED OR DECREASED QUANTITIES

The Contractor shall note that some bid item quantities may increase or decrease based on what is encountered in the field. If the actual field conditions vary from the plan quantity, no additional compensation shall be given for increasing or decreasing quantities. Any overruns shall be paid for under the appropriate bid item(s) without any penalty or change to the bid price for the associated bid item. The Contractor shall not be reimbursed for any deletions to the contract. No change to the unit bid price will be allowed for changes to the quantities.

The Contractor shall note that the bid items for sidewalk removal and replacement may increase or decrease based on what is encountered in the field. It was anticipated that 106 SF of sidewalk removal and replacement would be required for each of the sanitary lateral replacement and 53 SF for the private storm connection. It is also anticipated that there will be 20' of curb & gutter replaced for each lateral that is replaced with this project.

SECTION 104.10 CLEANING UP

Excess concrete from finishing operations and from spillage on adjacent sidewalk and curb & gutter shall be removed immediately. Excess concrete or mortar from the finishing operation and spillage into SASs and inlets shall be removed immediately.

SECTION 105.12 COOPERATION BY THE CONTRACTOR

The Contractor shall use care around existing trees, plantings, fences, walls, steps 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 Engineer and the City Forester; the abutting property owners shall be notified in accordance with the City's Administrative Procedure Memorandum No. 6-2.

The Contractor shall maintain access for property owners, mail delivery and garbage/recycling pickup for all properties in the project area. All private storm sewer discharges shall be maintained for all properties in the project area.

The Contractor shall maintain pedestrian access to all properties within the project limits and shall maintain vehicle access to all commercial driveways within the project limits at all times. All means necessary to maintain this access shall be considered incidental which may include but is not limited to high early strength concrete and temporary plating.

The Contractor will be responsible for coordination and providing work space for any conflict resolution work that will need to be performed by the private utility companies, and work on the sanitary sewer and storm sewer may require some relocation work by the utilities. The existing manholes for several of the facilities within the project limits are large. The Contractor shall coordinate with all utilities for any structure adjustments. Provide a minimum of 1 week notice prior to needing structure adjustments.

New underground utilities will also be installed by the private utility companies during this project. Contractor shall coordinate with the utilities and their contractors to provide space and time to complete the work within the contract timeframe as indicated in Section 109.2 Prosecution of Work. MG&E will be installing new gas main within the project limits.

Existing Facilities located within the project limits include:

Madison Gas & Electric (Gas) - contact Katie Bloomer, (608) 252-7287

Madison Gas & Electric (Electric) – contact Mark Bohm, (608) 252-4730

AT&T Wisconsin - contact Carol Anason, (608) 252-2385 or Ryan Denewellis (608) 252-2879

Charter Communications - contact Jon W Marschke (608) 225-2479

Verizon - contact RJ Cicatello Jr. (262)782-9836

SECTION 107.1 PUBLIC CONVENIENCE AND SAFETY

Access to businesses and commercial driveways shall be maintained at all times. The Contractor shall coordinate with parking lot property owners to maintain access and notify residents of access routes.

The Contractor shall properly barricade and light all work areas. Sidewalk forms, form pins and other items incidental to the work shall not be left or stored on the sidewalk or in the sidewalk area.

The Contractor shall backfill along both sides of the newly poured sidewalk immediately following removal of the sidewalk forms.

Engineer shall have the final decision on schedule of all work.

SECTION 107.2 PROTECTION AND RESTORATION OF PROPERTY AND PROPERTY OWNERS

Care shall be taken not to disturb property irons, sod areas and retaining walls on private property. Sidewalk forms, form pins and other items incidental to the work shall, at no time, be placed on private property.

SECTION 107.6 DUST PROOFING

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

SECTION 107.7 MAINTENANCE OF TRAFFIC

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.

The Contractor shall also submit an acceptable Traffic Control Plan, including all necessary phases, to Alexandra Heinritz, aheinritz@cityofmadison.com, prior to the pre-construction meeting. The Traffic Control Plan shall address all requirements of this section of the Special Provisions. The successful bidder shall work with the City Traffic Engineering Division to develop an approved Traffic Control Plan. The Contractor shall not start work on this project until the Traffic Engineering Division has approved a traffic control plan and traffic control devices have been installed, in accordance with the approved plan. Failure of the Contractor to obtain approval of a Traffic Control Plan, as specified above, may prevent the Contractor from starting work and shall be considered a delay of the project, caused by the Contractor.

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 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. The contractor shall refer to Chapter 6 in the MUTCD to provide adequate signs and taper lengths. The contractor may use drums as a channelizing device to separate traffic from work zone. 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.

The Contractor shall be responsible for installing and maintaining traffic control in accordance with the approved Traffic Control Plan and as directed by the City Traffic Engineer. 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. The Contractor shall install and maintain any necessary modifications or additions to the traffic control, as directed by the City Traffic Engineer, at no cost to the City.

Sanitary Sewer connection within Regent Street:

The work to complete the sanitary connection in Regent Street shall only occur on one weekend—from 8:30 a.m. on a Friday until the following Monday. Reopen all traffic lanes on Regent Street by 3:00 p.m. on Monday.

Traffic control for this work shall consist of both directions of Regent Street traffic on the south half of the street. Restrict all left turns at the intersection. Eastbound and westbound Regent Street traffic shall be separated using flexible, tubular delineators spaced at a maximum of 10 feet through the Brooks Street intersection. Electronic, flashing arrow boards, and traffic barrels with Type “C” steady burn lights shall be used on the Regent Street lane tapers for both directions of travel. Maintain the Metro Transit bus stops on Regent Street. Notify Ali Heinritz, aheinritz@cityofmadison.com, at least one week prior the sanitary connection.

North Brooks Street, College Court and Fahrenbrook Court may be closed to through traffic for the duration of construction except for the following special event dates.

- 1) Move-In/Move-out between Saturday, August 14-Monday August 16th, including the weekends immediately prior to and after these dates.- The streets may remain closed but no work and project site reasonably cleaned and organized to safely allow loading/unloading of residents vehicles.

Maintain local and emergency vehicle access at all times. Notice shall be given to the residents or businesses on the street 48 hours before any work is done that would obstruct their driveways.

Provide access for all mail deliveries.

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.

The work areas shall be backfilled, plated, or protected by traffic control devices during non-working hours. If steel plates are used, the Contractor shall notify the City of Madison Streets Division, 266-4681, (1) working day prior to placement of the plates.

No construction equipment or materials shall be stored in the roadway or street right-of-way that is open to traffic during non-working hours. Construction equipment and materials are not to be stored within the street right-of-way that is outside the project limits as shown on the approved plan.

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 Villarreal 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

NOTIFICATION WHEN CLOSING STREET

All Contractors shall give the Traffic Engineer (266-4761) notice of their intent to begin work on any street at least seventy-two (72) hours in advance. The Contractor shall not remove traffic signs. For removal or replacement of traffic and parking signs, contact the City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767, 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.

OPENING OF SECTION OF STREET TO TRAFFIC

The contractor shall notify The City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767 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 Alexandra Heinritz, Traffic Engineering Division, ahleinritz@cityofmadison.com

SECTION 108.2 PERMITS

A City of Madison Erosion Control permit is required and will be applied for by the City for this project.

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

- Wisconsin DNR Type II Dewatering
- MMSD Sewer Connection Permits

The Contractor will be responsible for acquiring Madison Metropolitan Sewerage District (MMSD) permits and paying for the permit fees for connection to MMSD MH02-007. The Contractor shall follow all MMSD permit requirements with this proposed work to their facilities. The permitting contact from MMSD for these connections is Ray Schneider (608)347-3628, rays@madsewer.org. MMSD's permit fee for the work under this contract is \$1,150 and shall be paid by the Contractor.

The Contractor shall be responsible for knowing, understanding, and meeting the conditions of all permits and shall keep a copy of each individual permit on site at all times throughout construction. Any questions pertaining to permit compliance shall be immediately brought to the attention of the Project or Construction Engineer.

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

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

SECTION 109.2 PROSECUTION OF THE WORK

The Contractor may begin work on or after **JUNE 14, 2021**. All work shall be completed on or before **AUGUST 31, 2021**.

Work shall begin only after the start work letter is received. If it is desirable to begin work before the above-mentioned date, the Contractor shall establish a mutually acceptable date with the City Engineer, and the agreed upon date must be determined prior to the preconstruction meeting.

The total contract time accounts for work days necessary to coordinate with utilities for work being performed on their facilities. No time extensions will be given for coordinating with the utilities and for providing time and space for the private utilities to complete their work within the contract duration.

SECTION 210.1(d) STREET SWEEPING

When required, either by the erosion control plan or by 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 workday. Areas not accessible by mechanical street sweepers may require hand scraping with shovels.

BID ITEM 21031 – INLET PROTECTION, TYPE C – COMPLETE

Type C inlet protection shall be allowed where it is not possible to install RIGID FRAME INLET PROTECTION. Installation shall be approved by the Construction Engineer, inspected weekly, and maintained or replaced when there is debris or damage.

ARTICLE 500 SEWER AND SEWER STRUCTURES GENERAL

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

SANITARY SEWER GENERAL

8", 10", and 12" 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, 50302 & 50303) and Sanitary Lateral (Bid Item 50353). 8" AWWA C900 sewer main and lateral as called for on the plan set shall be payable under Sanitary Sewer Main (Bid Item 50321) and Sanitary Lateral (Bid Item 50355).

STA 13+20 to STA 13+45, and STA 14+65 to 14+90 are anticipated to be challenging to complete with trenched installation. We have included a bid item that allows contractor to decide on the method of installation. Methods include (PUSH METHOD, BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING)

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, 2021 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 Sanitary Sewer Tap (Bid Item 50791). 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. City Engineering has dye tested and located active laterals for parcels within the project limits.

Connection of new pipes to existing structures shall utilize compression couplings where existing PVC sanitary main is installed at existing sewer access structures. Where it is not possible to connect with compression couplings, the connection shall be accommodated with a Sanitary Sewer Tap (Bid Item 50791) and Reconstruct Bench & Flowline(s) (Bid Item 50103).

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 removing, salvaging, replacing, newly installing and/or protecting the existing storm sewer system to install the sanitary sewer.

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. All private storm connections to a new structure are incidental to the new structure. If a private connection is not shown on the plan, additional compensation shall be paid for as a private reconnection unless the structure is field poured.

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

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

Salvaged castings, grates, apron end, and gates may be reinstalled where feasible at the discretion of the Engineer and/or Inspector.

BID ITEMS 90001 & 90002, in reference to the private storm connections at 1002 College Ct, are intended to provide an option for the property owner for connecting existing storm water downspouts in conjunction with the street reconstruction project.

BID ITEM 50227 – UTILITY TRENCH PATCH TYPE IV

Utility Trench Patch Type IV is required on the streets in this contract and areas that will be pulverized for work relating to underground utility excavation.

BID ITEM 50353 & 50355 - SANITARY SEWER LATERAL & SANITARY SEWER LATERAL-PRESSURE PIPE

Sanitary sewer laterals shown on the construction plans were located by City television inspection and records only.

Where the existing sanitary sewer laterals are being extended to connect to the new sanitary sewer main (being installed in a different location as the existing main), pipe plugs shall be required to plug the existing sanitary sewer main on both sides of the old lateral location. The pipe plugs shall be considered incidental to the bid price for SANITARY SEWER LATERAL. All work associated with this bid item shall comply with Article 503 of the Standard Specifications.

Per the City of Madison Standard Specifications for sanitary sewer lateral construction on street reconstruction projects, Contractors are encouraged to begin installation of sanitary lateral pipe at the proposed sewer main. If Contractor starts excavation for the lateral at the property line, it shall be at the Contractor's risk. No Utility Line Openings (ULO's) will be granted for the inability to locate the sanitary lateral at the property line. Any extra sidewalk removal will not be compensated to the Contractor looking for an existing sanitary lateral at the property line. Contractors are encouraged to 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.

Proposed sanitary lateral locations near trees are subject to change based upon data obtained in the field and property owner involvement. Excavation near trees shall comply with Article 107.13 of the Standard Specifications. If 5 ft of separation from the tree to the excavation cannot be maintained, lateral replacement shall stop at the curb.

Each sanitary sewer lateral shall have a maximum of 4 sidewalk squares (106 sf) removed and replaced.

No additional compensation shall be awarded beyond this amount for the replacement of a sewer lateral.

BID ITEM 50356 & 50357 – RECONNECT SANITARY LATERAL & RECONNECT SANITARY LATERAL-PRESSURE PIPE

All work under this bid item shall be done in accordance with Article 503 of the City of Madison Standard Specifications for Public Works Construction, latest addition. Lateral risers shall be installed in conformance with the S.D.D. 5.3.1 and made payable as Reconnect (Bid Item 50356 & 50357) and Sanitary Sewer Lateral (Bid Item 50353 & 50355)

The first 5 feet of sewer lateral pipe/ fittings measured from the sewer main shall be considered the reconnect for all sewer lateral reconnections. Lateral connections to sewer access structures shall be paid for separately as a sanitary tap. 5' of lateral pipe is not considered incidental to the sanitary tap connection.

BID ITEM 50361 – WASTEWATER CONTROL

DESCRIPTION

Work under this bid item shall include wastewater control (bypass pumping of the sewer being replaced and making the connection to the MMSD manhole) in the amount of 2,500 gpm maximum. Work shall be completed in accordance with Article 503.3 of the City of Madison Standard Specifications for Public Works Construction Latest Edition.

BYPASS PUMPING/DIVERSION

The Contractor shall provide for the continuous flow of wastewater in order to around the sections of sewer designated for replacement and the MMSD manhole being connected to. A bypass system shall be installed by plugging the line at an existing upstream sewer access structure and pumping or directing the flow to a downstream sewer access structure. The pump(s) and bypass lines shall be of adequate capacity and size to handle the flow. Raw sewage shall be routed back to the sanitary sewerage system or hauled and disposed of as approved by MMSD.

Bypass pumping shall be limited to the regular hours of work as provided by MMSD unless necessitated by an emergency beyond the Contractor's control.

If the Contractor elects to use bypass pumping as a means of sewerage control, the methods, equipment, type of hose, etc., shall be subject to approval by the Engineer. Hoses crossing streets, driveways, parking areas, etc., are to be ramped over to prevent damage to the pipes and hoses.

All pumping discharge pipe shall be tested and demonstrated to be leak-free. All discharge pipe shall be hydrostatically tested to 60 psi prior to being placed into service. Protection shall be provided for pipes crossing traffic lanes, driveways, bike lanes, sidewalks, parking areas, etc. Selection of pumping equipment, pipe size, pipe support, and appurtenances shall be the responsibility of the Contractor and subject to approval by the Engineer.

Bypass pumps shall be sized to handle the required peak flow capacities as discussed. Redundant pumps are required for all bypass pumping set ups. Pumps shall be continuous self-priming and capable of running dry unattended.

Bypass system shall include a calibrated flow meter with a visual display showing gallons per minute. Meter shall be accurate to plus or minus 10% at the anticipated flowrates.

At each Bypass suction location, provide a float operated high water alarm at an elevation approved by the Engineer. High water float shall trip audio, visual, and telephone alarms. Telephone alarm shall call at least one phone number that will be answered 24 hours a day by a responsible person.

All pumps shall be started at least once per day to ensure proper operation and reliability. Any pump does not start or is found to be inoperable shall be serviced or replaced immediately.

Bypassing will not be permitted in the event of current or predicted wet weather. The Engineer reserves the right to determine when bypassing will or will not be allowable in wet weather.

No spillage of wastewater to adjacent streets, lawns, etc., shall be tolerated. If any such spillage should occur, all construction operations shall cease and cleanup shall commence immediately and be completed to the satisfaction of the Engineer prior to the resumption of any construction operations.

Contractor shall familiarize himself with the sanitary sewerage facilities and develop an adequate bypassing plan. A written plan shall be submitted to the Engineer and approved by MMSD prior to the start of work.

MMSD's contact regarding wastewater control on MMSD facilities is Jen Hurlebaus 222-1201 Ext: 248 jenh@madsewer.org.

METHOD OF MEASUREMENT

Wastewater Control- City shall be measured by the Lump Sum acceptably completed.

BASIS OF PAYMENT

Wastewater Control- City measured as described, which will be paid at the contract unit price, which shall be full compensation for all materials, labor, equipment, and incidentals necessary to acceptably complete the work as set forth in the description.

BID ITEM 50390 – SEWER ELECTRONIC MARKERS

With regard to the City of Madison Standard Specifications for Public Works Construction 2020 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.

Per the City of Madison Standard Specifications for Public Works Construction 2020 Edition Section 507.3(c), each private storm sewer lateral shall have an electronic marker ball installed at the capped end location on the private property line.

BID ITEM 50797 - EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL

DESCRIPTION

Where called out for on the plan or by the Engineer, barrel joints shall be sealed on sanitary sewer structures around the outside circumference of the Sewer Access Structure. Manhole joint seal shall be minimum of nine (9) inches wide. The seal shall consist of flexible rubberize seal conforming to ASTM C923 held in place with stainless steel compression bands or butyl adhesive tape conforming to ASTM C877 or heat shrink sleeve over visco-elastic adhesive sealant.

Acceptable products and manufacturers are the following:

1. Mac Wrap, Mar Mac Manufacturing Company, Inc.
2. NPC External Joint Seal, NPC, Inc.
3. EZ-Wrap, Press-Seal Gasket Corporation

4. Riser-Wrap, Pipeline Seal and Insulator

Alternate manufacturers and products not listed above are subject to pre-approval by the Engineer

METHOD OF MEASUREMENT

External Sanitary Sewer Access Structure Joint Seal shall be measured separately as each for each sewer structure wrapped.

BASIS OF PAYMENT

External Sanitary Sewer Structure Joint Seal will be paid for at the contract price, and is considered full compensation for all work as listed above.

BID ITEM 50801 – UTILITY LINE OPENING (ULO)

The work under this item shall be completed in accordance with Article 508 of the Standard Specifications for Public Works Construction. 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 apart.

BID ITEM 90001 - PRIVATE STORM DRAINPIPE CONNECTION – TYPE A

DESCRIPTION

The parcel 1002 College Ct has eleven (11) downspout storm connections discharging toward the public College Ct right of way. The property owner, or property management will mark the locations where they currently discharge. Type A connection includes coring the top of the 12x5 box culvert (RCBC) for each extended downspout, extending and connection the PVC downspout with a boot. The area must be restored with topsoil and seeding. Mark each connection with an electronic marker ball.

Please contact Trav Hardy, Forward Management, Inc, (608) 285-8679, travh@rentfmi.com with questions in regard to existing downspout connections.

METHOD OF MEASUREMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE A shall be measured by EACH, where each coring, boot, connection, additional PVC pipe & elbows, if necessary, and restoration is completed to the satisfaction of the Construction Inspector.

BASIS OF PAYMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE shall be measured as described above and shall be paid for at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90002 - PRIVATE STORM DRAINPIPE CONNECTION – TYPE B

DESCRIPTION

The parcel 1002 College Ct has eleven (11) downspout storm connections discharging toward the public College Ct right of way. The property owner, or property management will mark the locations where they currently discharge. Type B connection includes coring the top of the 12x5 box culvert (RCBC) for an 8-inch PVC pipe header connection with cleanouts on each end. Install an 8-inch PVC header above the 12x5 RCBC, as flush as possible, connect extended downspouts with wye. Removal and replacement of sections of private paths may be required, and will be considered incidental to the installation of Type B

private storm connection. The area must be restored with topsoil and seeding. Mark each connection with an electronic marker ball.

Please contact Trav Hardy, Forward Management, Inc, (608) 285-8679, travh@rentfmi.com with questions in regard to existing downspout connections.

METHOD OF MEASUREMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE B shall be measured by LUMP SUM, for all work related to installation and restoration including coring, boot, connection, additional PVC pipe, wyes & cleanouts, concrete removal & replacement, and restoration is completed to the satisfaction of the Construction Inspector.

BASIS OF PAYMENT

PRIVATE STORM DRAINPIPE CONNECTION – TYPE shall be measured as described above and shall be paid for at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90003 – INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING)

DESCRIPTION

Work under this item shall include the installation and material cost to install an 8" DIAMETER SEWER MAIN at proposed slopes. The locations for this bid item are the following: STA 13+20 to STA 13+45, and STA 14+65 to 14+90. Other locations shall be completed by open cut sewer replacement.

Sewer main installed under this BID ITEM is included with this bid item.

Options for installing the pipe in this location shall include PUSH METHOD, BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING. Regardless of the chosen method, the bid item shall include all equipment, materials, and incidentals required to install the pipe in accord with the following specifications.

PUSH METHOD & BORE & JACK - METHODS

The sanitary sewer casing installed by with this bid item shall be a suitable sized "casing pipe". The casing pipe must be sized by the contractor in order for the inner sanitary sewer pipe to properly fit within the casing pipe. All costs for furnishing and installing the steel casing pipe, casing spacers, access and receiving pits, and all work necessary to push the casing pipe shall be included.

Included in this item is the excavation and backfilling of the receiving pits. Disposal of the excess material shall be by the Contractor off site at a location to be determined by the Contractor. Backfilled material shall meet City of Madison Standard Specifications for road construction- Latest Edition. Necessary work and materials to adequately secure the pits with full cover or security fencing shall be incidental to this bid item.

The Contractor is informed that the casing pipe specified shall be at a minimum of 6" larger than the outside diameter of the carrier pipe. The Contractor is responsible to complete installation of a casing pipe under this item and should he/she deem it necessary to utilize a larger diameter casing pipe that shall be the Contractor's option and is included in this item.

MATERIALS

8" Diameter Sewer in Casing- Push Method/ Bore and Jack shall include all materials necessary to install the 8" sanitary sewer pipe in accord with the requirements above. A casing pipe included with this item shall be in accord with the following:

- ASTM specification A139 Grade B or AWWA specification C200
- Outside diameter as specified by the Contractor
- Not coated or cathodically protected, no hydrostatic testing required
- 0.3125" (5/16") minimum thickness
- Specified minimum yield strength, SMYS, of at least 35,000 psi
- New and unused pipe
- Straight and round pipe
- Beveled ends for butt welding

The Contractor shall submit the following to the Engineer for approval prior to ordering of materials and the start of construction:

- Certificate of compliance for the steel casing pipe
- Materials for sand or pea gravel
- Materials for casing spacers and distances between spacers
- Materials and methods for bulk-heading the casing ends

CONSTRUCTION METHODS- PUSH METHOD

Contractor shall install by pushing the casing into place at the desired grade with a backhoe. Soil caught in the casing while pushing the casing into place will need to be removed by the contractor. Water is permitted for removal of the soil from the inside of the casing pipe. Block Spacers shall be placed on the 8" diameter sanitary sewer carrier pipe to adjust the pipe to the proposed grade. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. After the sanitary sewer is in place at the proper slope, the voids between the sewer main and the casing pipe shall be filled with blown sand or pea gravel into the casing to the spring line of the pipe to provide bedding under the pipe.

The untrenched construction shall be performed by Push Method. Water jacking for excavation of the soil is not allowed. The use of water to facilitate removal of spoil within the pipe after the casing pipe is pushed into place is permitted.

Connection of adjacent lengths of steel pipe shall be done by continuous, circumferential, field butt welding in accordance with AWWA C206. The connection shall result in a straight and true casing with a watertight seal.

The carrier sewer pipe shall be installed on line and grade through the casing pipe. Install approved casing spacers at the approved distances. Fill the annular space between the casing and carrier pipe with the approved material (sand or pea gravel).

Excavation pits shall adjacent to the tunnel shall be backfilled with either pea gravel or slurry backfill after the installation of the sewer and casing pipe is complete.

CONSTRUCTION METHODS- BORE AND JACK

Prior to installing pipe in the casing, a set of four wood blocks shall be strapped to both ends of the pipe five feet (5') from each end. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. Sand or Pea gravel shall be washed or blown into the casing to the spring line of the pipe to provide bedding under the pipe.

The untrenched construction shall be performed by dry auger boring and jacking. Water jacking for excavation of the soil is not allowed. The use of water to facilitate removal of spoil is permitted.

For the casing installation, the bore hole diameter shall be essentially the same as the outside diameter of the pipe. In soft, unstable soil, the auger shall be inside the casing, but no undersized, so as not to create a void between the casing and the soil. If voids should develop or if the bore hole diameter is greater than the outside diameter of the pipe by more than approximately 1 inch, the voids shall be pressure grouted.

Connection of adjacent lengths of steel pipe shall be done by continuous, circumferential, field butt welding in accordance with AWWA C206. The connection shall result in a straight and true casing with a watertight seal.

The conduit pipe shall be installed on line and grade through the casing pipe. Install approved casing spacers at the approved distances. Fill the annular space between the casing and carrier pipe with the approved material (sand or pea gravel).

Take care to ensure that developed thrust pressures do not disturb existing utilities in or around the bore pit area.

METHOD OF MEASUREMENT

INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING) shall be measured by the linear foot, measured along the longitudinal axis from center of structure to center of structure. Payment will only be granted for sewer that has been installed in accordance with the plans. Back- pitched pipe will not be granted payment.

BASIS OF PAYMENT

INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING) shall be measured as described above and shall be paid for at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90004 - SANITARY SEWER STORM BOX CROSSING

DESCRIPTION

Work under this bid item shall include all work necessary to install a 10" sanitary sewer inside of a steel casing across the base slab of the existing 13.5' x 5' box culvert. The base slab of the box shall be sawcut removed in order to install the sewer inside of a casing as shown on the drawings.

10" sanitary sewer main installed within the box crossing is included with this BID ITEM.

Storm water control and dewatering for installation shall be paid under BID ITEM 90005 STORM WATER CONTROL.

MATERIALS

CASING

- ASTM specification A139 Grade B or AWWA specification C200
- Outside diameter as specified by the Contractor
- Not coated or cathodically protected, no hydrostatic testing required
- 0.3125" (5/16") minimum thickness
- Specified minimum yield strength, SMYS, of at least 35,000 psi
- New and unused pipe

- Straight and round pipe
- Beveled ends for butt welding

The Contractor shall submit the following to the Engineer for approval prior to ordering of materials and the start of construction:

- Certificate of compliance for the steel casing pipe
- Materials for sand or pea gravel
- Materials for casing spacers and distances between spacers
- Materials and methods for bulk-heading the casing ends

CONCRETE AND REINFORCING STEEL

Concrete shall be in accordance with Article 301 - Concrete and Concrete Materials. Concrete shall have a minimum compressive strength of 4,000 PSI at 28 days.

Reinforcing steel shall be in accordance with Article 301.3 - Reinforcing Steel. Epoxy coated reinforcement is not required for the box culvert repairs.

Adhesive anchors shall be HIT HY 200 by Hilti, Inc., Red Head C6+ or Red Head A7+ by ITW, Pure 110+ or AC200+ by DeWalt, Set-XP by Simpson Strong-Tie Anchor Systems, or approved equal.

CONSTRUCTION METHODS

CASING WORK

Block Spacers shall be placed on the 10" diameter sanitary sewer carrier pipe to adjust the pipe to the proposed grade. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. After the sanitary sewer is in place at the proper slope, the voids between the sewer main and the casing pipe shall be filled with blown sand or pea gravel into the casing to the spring line of the pipe to provide bedding under the pipe.

BOX MODIFICATIONS

Dewater area of pipe crossing and remove base slab of box culvert as necessary for installation of pipe crossing as shown on the drawings. Place type HR filter fabric below clear bedding stone. Install casing and 10" sanitary sewer pipe. Provide bar steel reinforcing, adhesive anchors and concrete base slab as shown on the drawings.

METHOD OF MEASUREMENT

SANITARY SEWER STORM BOX CROSSING shall be measured by the LUMP SUM.

BASIS OF PAYMENT

SANITARY SEWER STORM BOX CROSSING shall be measured as described above and shall be paid at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description.

BID ITEM 90005 – STORM WATER CONTROL

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals required to control dry and wet weather flow in the storm sewer system during the reconstruction project. The Contractor shall take all necessary steps to protect the new and existing storm mains from damage during construction and to accommodate the existing flows during construction. This item includes all storm control necessary for all aspects of the construction.

Dewatering and storm water control is anticipated with the box culvert top slab access opening at the N Brooks St and College Ct intersection and with the Sanitary Sewer Storm Box Crossing.

It may be necessary to provide access to the existing storm box to install dewatering measures. Location of the top slab access opening, if required, shall be determined by Contractor. If top slab access hole is used, reconstruct the top slab as shown on the detail drawings (see sheet D-3). Reconstruction of top slab shall be included with this BID ITEM.

It is advised that the Contractor visit the site prior to bidding to determine then type of storm water controls that will be necessary for the sanitary sewer main installation.

METHOD OF MEASUREMENT

STORM WATER CONTROL shall be measured by lump sum for all work necessary throughout construction to control storm water flows.

BASIS OF PAYMENT

STORM WATER CONTROL shall be considered full compensation at the contract price for all work, materials, and incidentals to complete the work as described above.

BID ITEM 90006 - RCBC TOP SLAB OPENING

DESCRIPTION

Work under this bid item shall include all work necessary to install a new opening with casting on the top slab of an existing 13.5' x 5' reinforced concrete box culvert. Work shall be completed in accordance with standard specification section 501.6(b) except as noted herein and as shown on the structural details in the drawings.

RCBC top slab opening shall provide access for sanitary sewer main at the storm box crossing.

Storm water control and dewatering, if required for installation shall be paid under BID ITEM 90005 STORM WATER CONTROL.

MATERIALS

Concrete shall be in accordance with Article 301 - Concrete and Concrete Materials. Concrete shall have a minimum compressive strength of 4,000 PSI at 28 days.

Reinforcing steel shall be in accordance with Article 301.3 - Reinforcing Steel. Epoxy coated reinforcement is not required for the box culvert top slab repairs.

Adhesive anchors shall be HIT HY 200 by Hilti, Inc., Red Head C6+ or Red Head A7+ by ITW, Pure 110+ or AC200+ by DeWalt, Set-XP by Simpson Strong-Tie Anchor Systems, or approved equal.

Procurement and installation of casting and adjustment rings is included under this bid item. Install one Neenah R-1050 frame with logo lid 1550-0054, see S.D.D. 5.7.16.

CONSTRUCTION

At locations shown on the drawings, reinforcing bars shall be provided in existing concrete by drilling holes, injecting epoxy adhesive, and inserting the reinforcing bar. All existing surfaces to receive adhesive anchors, including the entire area in contact with the new concrete, shall be cleaned and roughened. Installation procedures shall be in accordance with the manufacturer's printed installation instructions including method for cleaning holes prior to installing adhesive.

Reinforcing steel in existing structure shall be located prior to drilling holes and anchors shall be located to clear reinforcing steel.

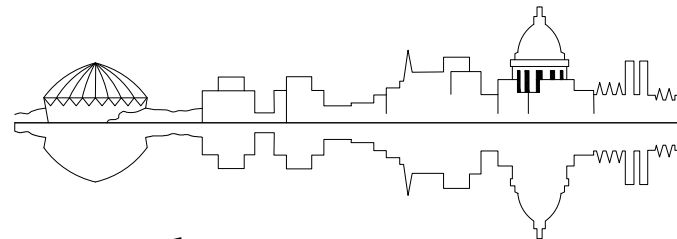
Submit documentation that all Contractor's personnel or subcontractors who install adhesive anchors have been trained by the manufacturer's rep prior to the anchor installation.

METHOD OF MEASUREMENT

RCBC TOP SLAB OPENING shall be measured by the LUMP SUM.

BASIS OF PAYMENT

RCBC TOP SLAB OPENING shall be measured as described above and shall be paid at the contract price, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work set forth in the description and as shown in the drawings.



Madison, Wisconsin

INDEX OF SHEETS

SHEET NO.	TITLE
1	
D1-D4	DETAILS
EC1	EROSION CONTROL
P1-P6	PLAN & PROFILE
U1-U6	SEWER PLAN & PROFILES
U7-U8	SEWER SCHEDULES

CITY OF MADISON

CITY ENGINEERING DIVISION

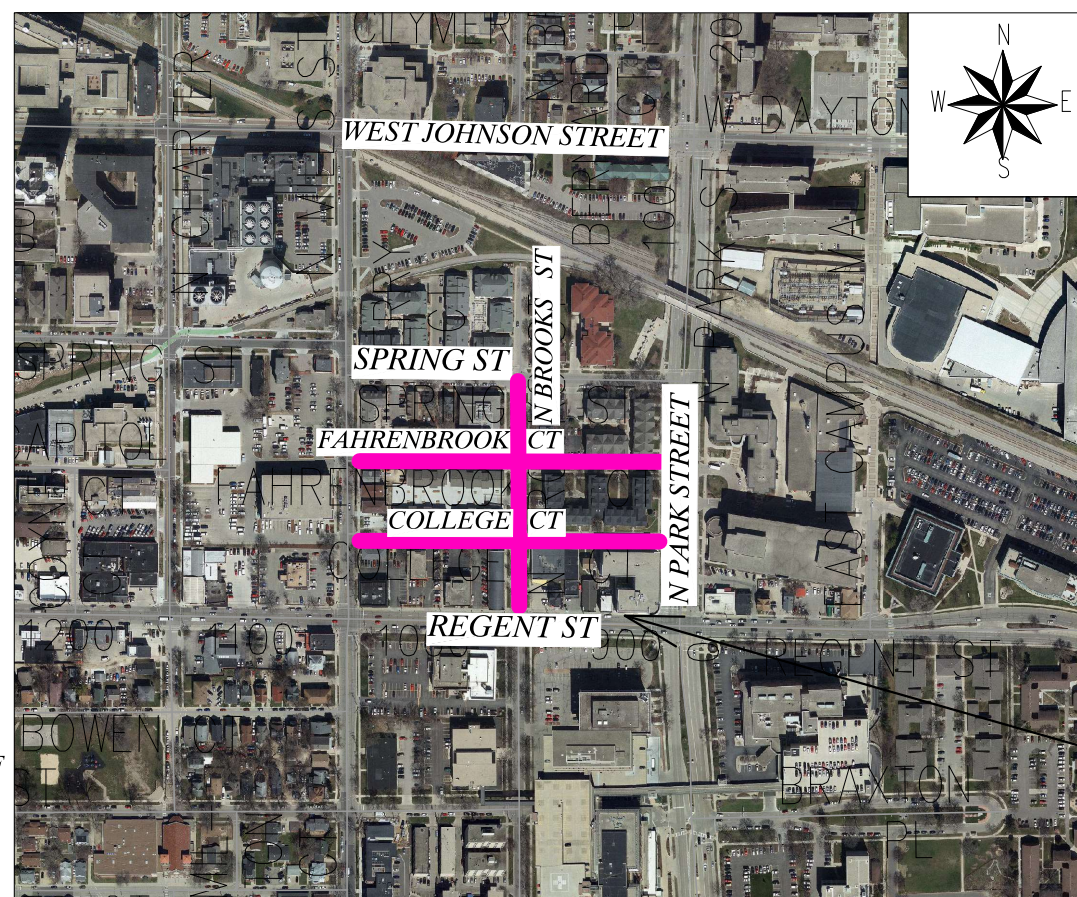
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING ASSESSMENT DISTRICT-2021

CITY PROJECT NO. 13180
CONTRACT NO. 8576

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



PROJECT LOCATION

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: MARCH 16, 2021

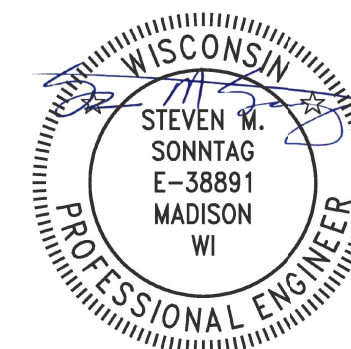
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Greg Fries Apr 2, 2021

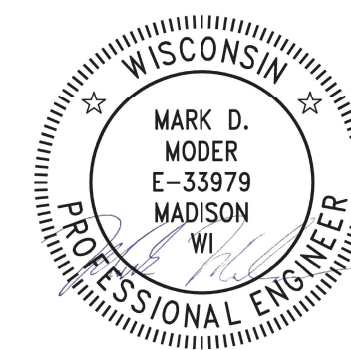
City Engineer Date

STREET DESIGNED BY:



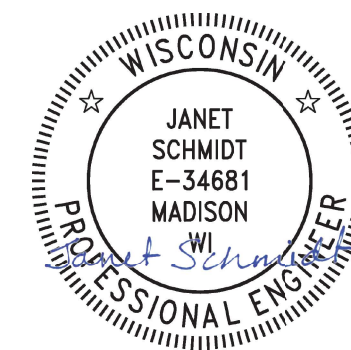
Apr 2, 2021

SANITARY SEWER DESIGNED BY:



Apr 2, 2021

STORM SEWER DESIGNED BY:



Apr 2, 2021

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

EARTH WORK SUMMARY:

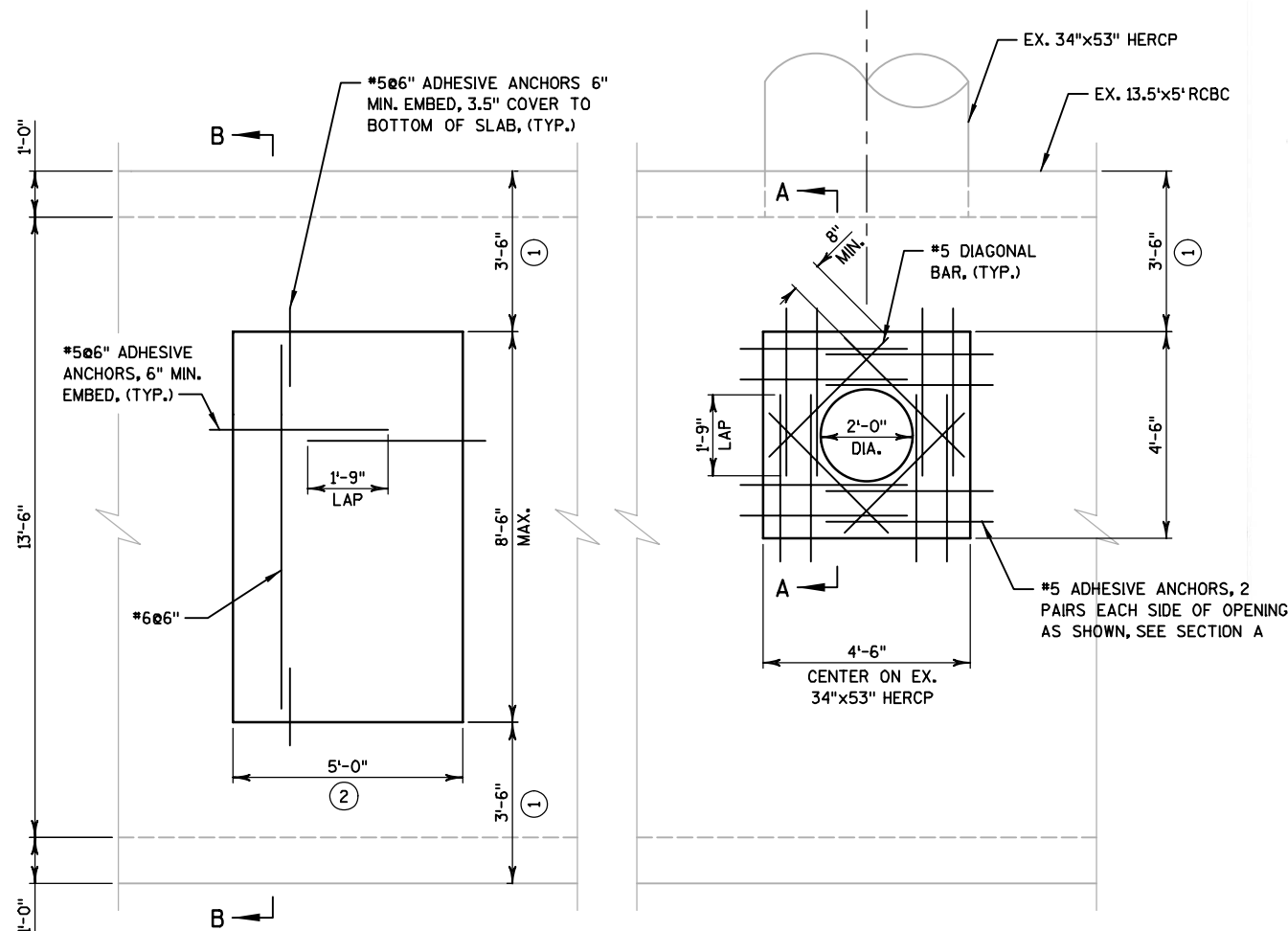
ESTIMATED UNDISTRIBUTED UNDERCUT = 405.0 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT = 405.0 C.Y.

PLOT SCALE: 1" = 1'

PLOT NAME: ---

REV. DATE: 4/1/2021 8:57 AM

ORIGINATOR: CITY_OF_MADISON



TOP SLAB AT RCBC ACCESS HOLE

NOTE:
RCBC ACCESS HOLE IS NOT REQUIRED. DETAIL IS PROVIDED FOR USE AT CONTRACTOR'S OPTION. SIZE AND LOCATION OF ACCESS TO BE DETERMINED BY CONTRACTOR.

TOP SLAB AT NEW CASTING

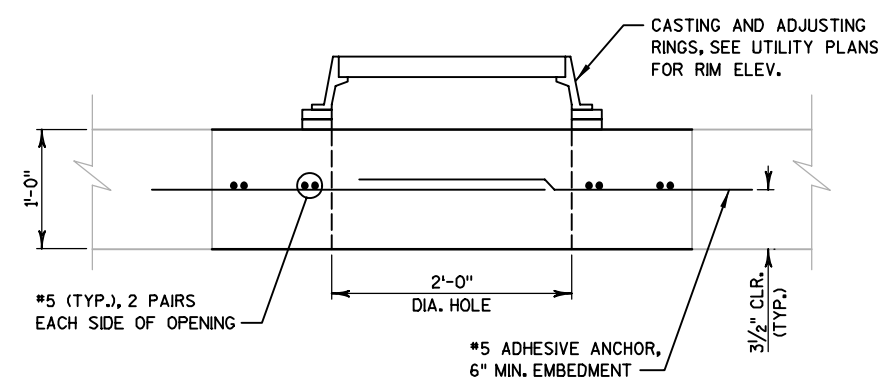


GENERAL NOTES

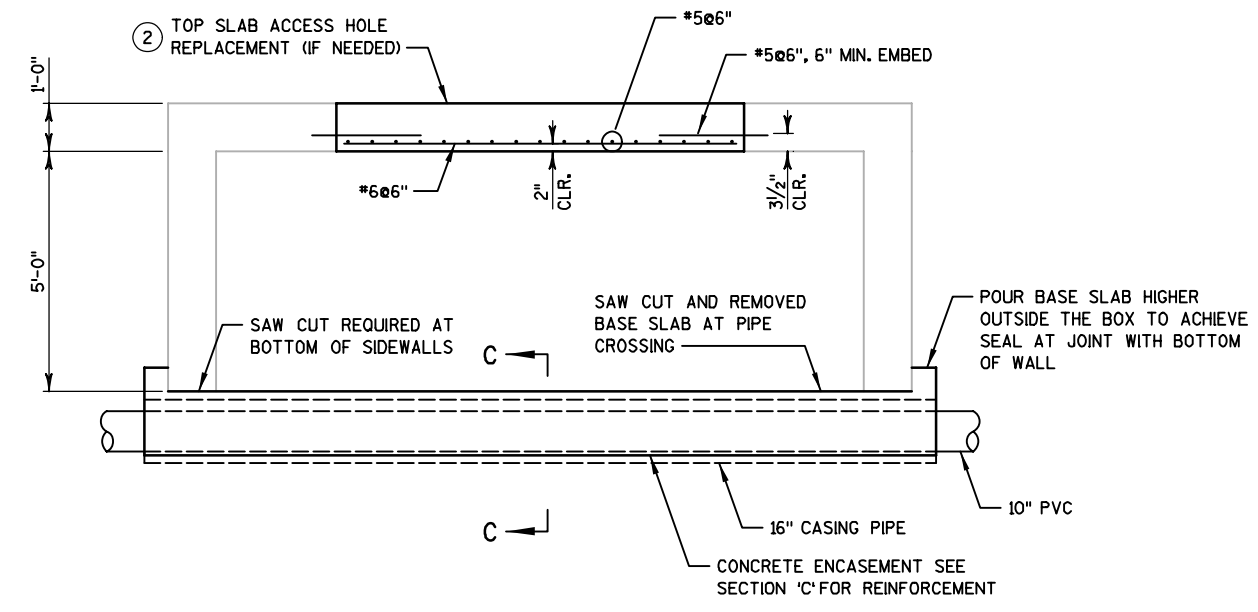
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE APPLICABLE SPECIAL PROVISIONS.
2. REFER TO UTILITY PLANS FOR PIPE REQUIREMENTS AND ELEVATIONS.
3. CONCRETE FOR BOTTOM SLAB REPAIR SHALL NOT BE PLACED UNDER WATER. DE-WATER THE WORK AREA AS REQUIRED AND MAINTAIN DEWATERED CONDITION FOR AT LEAST 6 HOURS AFTER COMPLETION OF CONCRETE POUR.
4. LIMITS OF CONCRETE REMOVAL SHALL BE SAW CUT. DO NOT REMOVE CONCRETE BEYOND THE LIMITS SHOWN ON THIS SHEET WITHOUT PRIOR APPROVAL FROM ENGINEER.
5. CONCRETE FOR THE STRUCTURES SHOWN ON THIS SHEET SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSL.
6. STRUCTURE MODIFICATIONS SHOWN ON THIS SHEET HAVE BEEN DESIGNED BY STRAND ASSOCIATES, INC. DESIGN CONTACT IS BRETT OFTEDAHL, 608-251-4843.

KEY NOTES

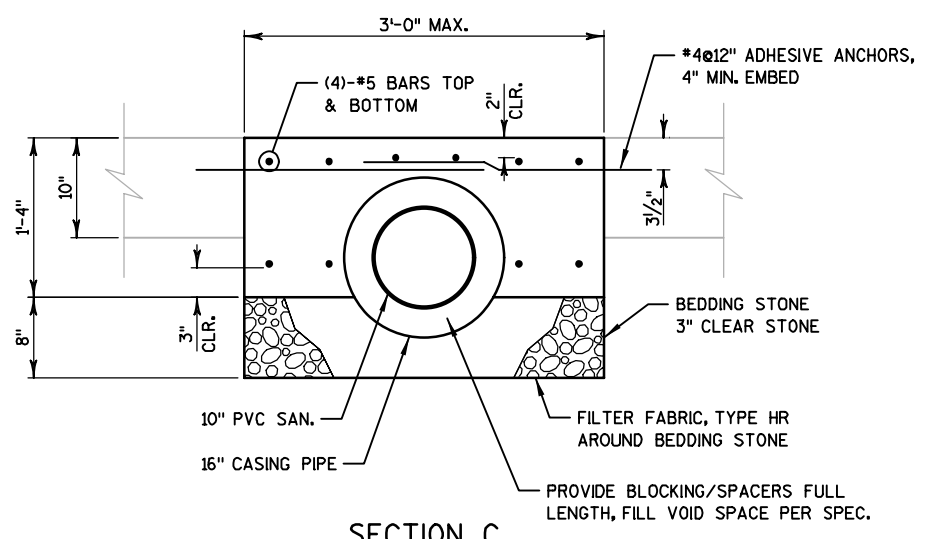
- ① THE OUTER 3'-6" OF THE TOP SLAB SHALL NOT BE REMOVED.
- ② ACCESS HOLE DIMENSIONS SHALL BE DETERMINED BY CONTRACTOR FOLLOWING THE CRITERIA PROVIDED ON THIS SHEET. CONTRACTOR SHALL SUBMIT REQUESTS FOR A DIFFERENT SIZE OF OPENING TO ENGINEER FOR REVIEW.



SECTION A



SECTION B



SECTION C

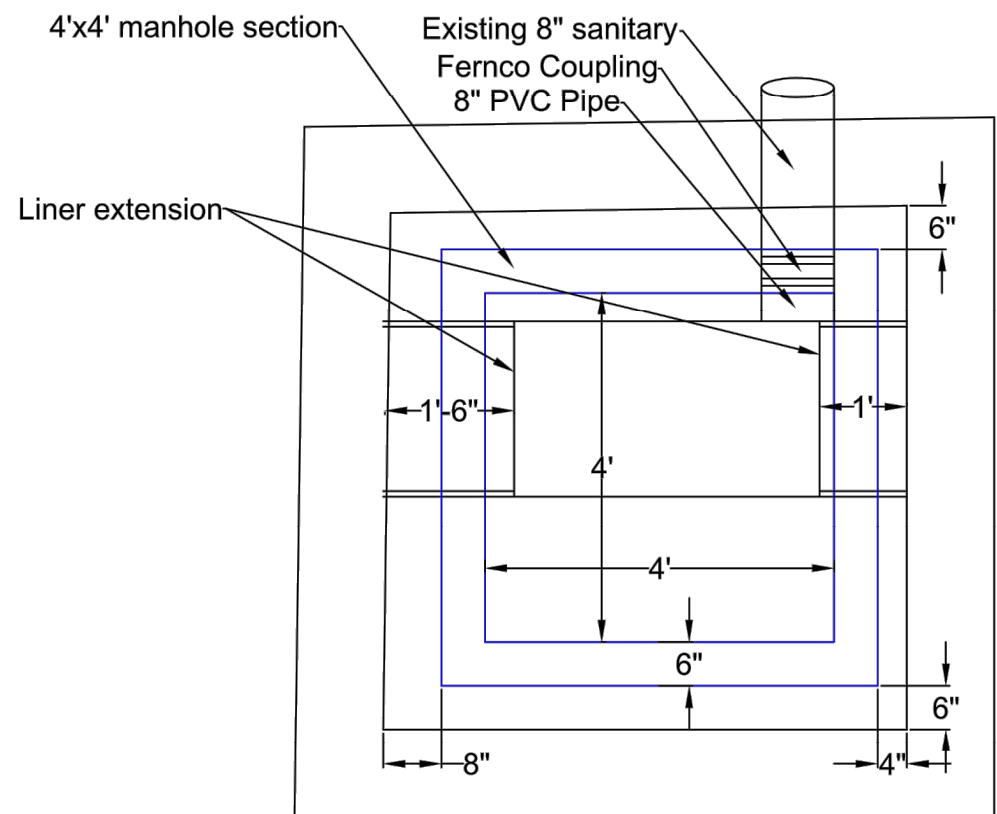
NO.	REVISIONS	DATE
1	ISSUED WITH ADDENDUM NO. 2	4/27/21

**REINFORCED CONCRETE
BOX CULVERT MODIFICATIONS**
N. BROOKS ST., FAHRENBERG CT. & COLLEGE CT.
RES ASMT DIST-2021 - CONTRACT NO: 8576
CITY OF MADISON
DANE COUNTY

JOB NO.
1020.127
PROJECT MGR.
BRETT O.

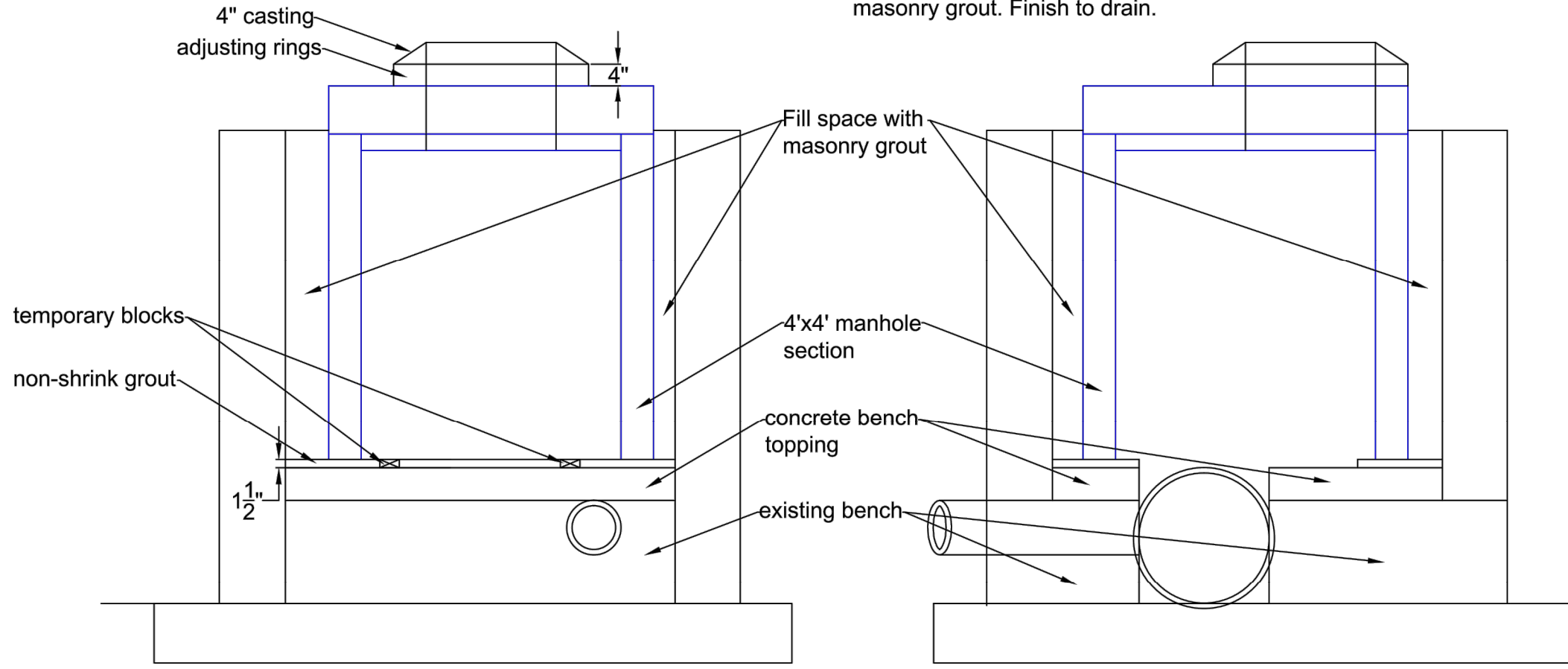


SHEET
D-3



AS-BUILT PROVIDED
BY MMSD FOR
REFERENCE ONLY

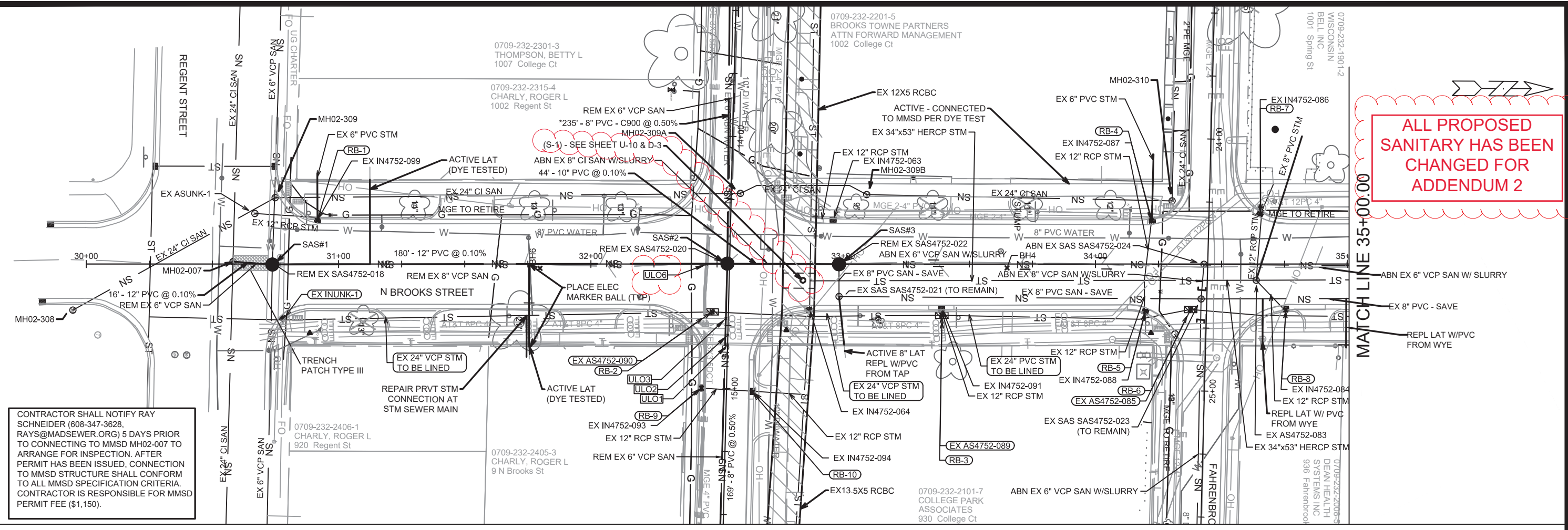
Manhole MH02-007 Repairs
 Extend liner into manhole to limits shown. Power wash existing bench. Remove loose concrete. Extend existing 8" sanitary with standard fernco and PVC pipe. Finish flush to channel wall. Form for new bench topping flush to channel walls. Place 4000 psi concrete and finish level to top of liner. Set 4'x4' manhole section with temporary blocks on manhole bench. Position as shown. Form and place 1-1/2" flowable non-shrink grout at manhole section base as shown. After grout has set, remove temporary blocks and grout pack voids. Fill annular space between new manhole section walls and old manhole walls with masonry grout. Finish to drain.



13180	13180	13180	13180	13180	13180
EXISTING MMSD MH02-007 DETAIL - FOR REFERENCE ONLY	MMSD	MMSD	MMSD	MMSD	MMSD
N BROOKS ST, FAHRENBERG BROOK CT & COLLEGE CT RES ASMNT DIST-2021	MADISON, WI	MADISON, WI	MADISON, WI	MADISON, WI	MADISON, WI
M:\DESIGN\Projects\13180\CAD\Severs\D-4 MMSD.dwg	MMSD	MMSD	MMSD	MMSD	MMSD
CONTRACT NO: 8576	13180	13180	13180	13180	13180
D-4	D-4	D-4	D-4	D-4	D-4

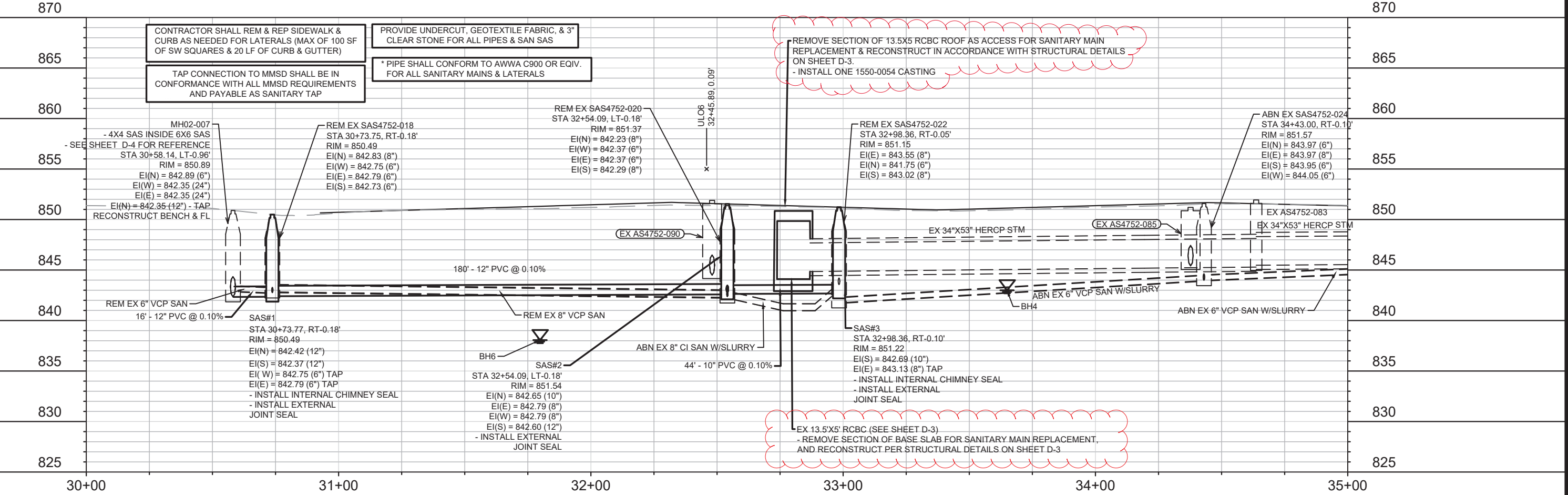


13180
D-4

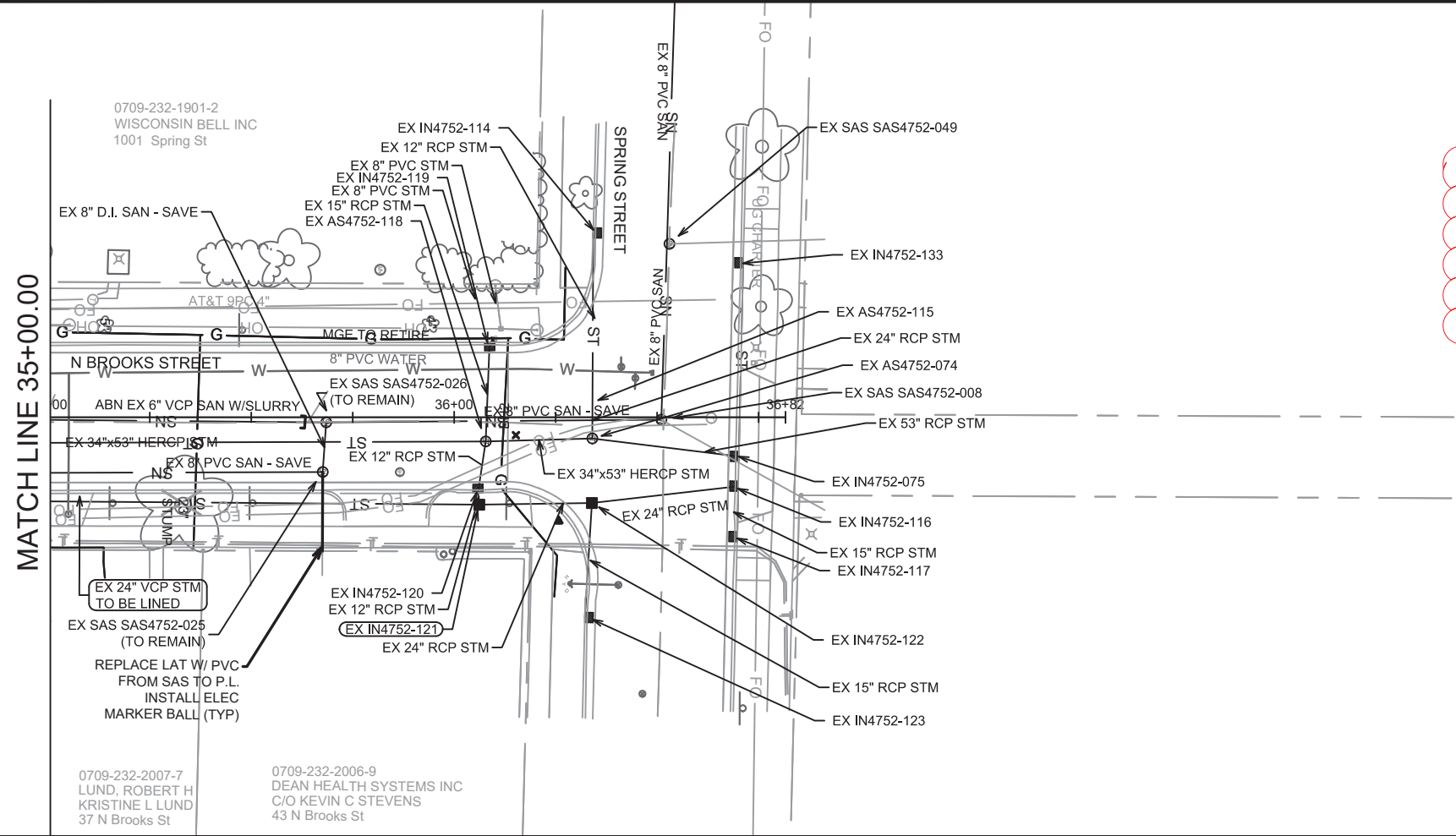


ALL PROPOSED
SANITARY HAS BEEN
CHANGED FOR
ADDENDUM 2

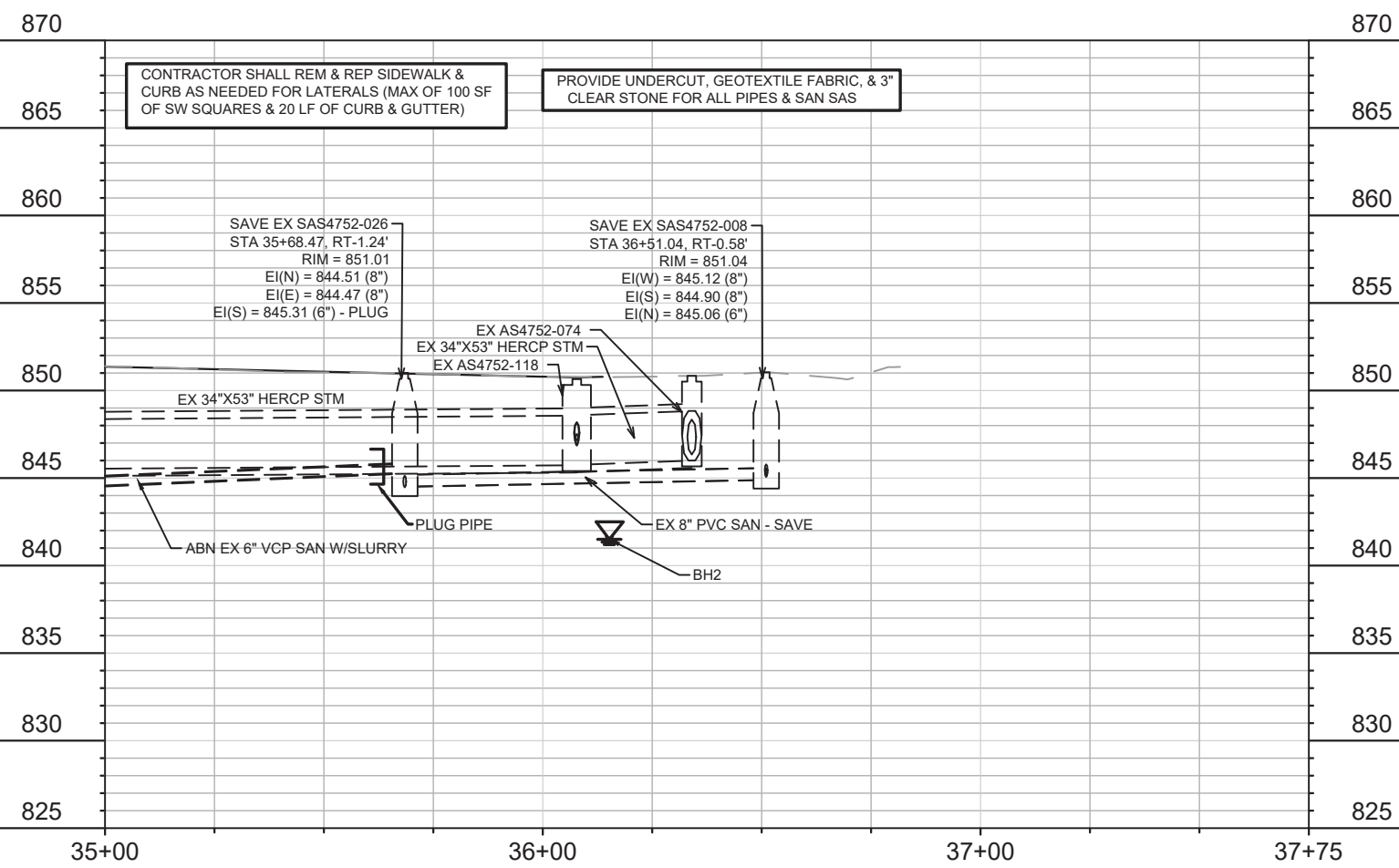
CONTRACTOR SHALL NOTIFY RAY SCHNEIDER (608-347-3628, RAYS@MADSEWER.ORG) 5 DAYS PRIOR TO CONNECTING TO MMSD MH02-007 TO ARRANGE FOR INSPECTION. AFTER PERMIT HAS BEEN ISSUED, CONNECTION TO MMSD STRUCTURE SHALL CONFORM TO ALL MMSD SPECIFICATION CRITERIA. CONTRACTOR IS RESPONSIBLE FOR MMSD PERMIT FEE (\$1,150).



U-1	Scale: #####	Date: 4/27/2021 11:28 AM	Revision	ADDENDUM 2	DAO	BY	4/26/21	MARK
<div style="display: flex; justify-content: space-between;"> 13180 CONTRACT NO: 8576 </div>								
MADISON, WI N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021								
SEWER UTILITY PLAN & PROFILE - N BROOKS ST								
13180								
U-1								



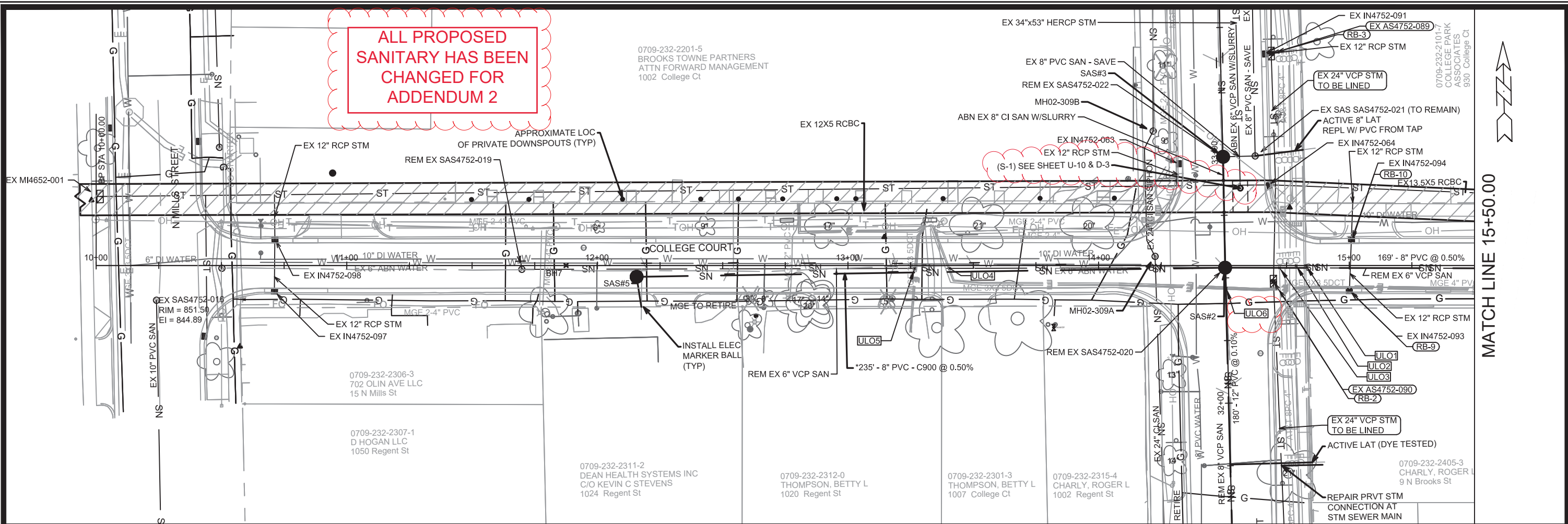
ALL PROPOSED
 SANITARY HAS BEEN
 CHANGED FOR
 ADDENDUM 2



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX OF 100 SF OF SW SQUARES & 20 LF OF CURB & GUTTER)

PROVIDE UNDERCUT, GEOTEXTILE FABRIC, & 3" CLEAR STONE FOR ALL PIPES & SAN SAS

13180	ADDENDUM 2	DATE	BY	U-2
13180	REVISION	Date: 4/27/2021 11:28 AM	Scale: #####	
SEWER UTILITY PLAN & PROFILE - N BROOKS ST N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021 MADISON, WI CONTRACT NO.: 8576				
13180 U-2				

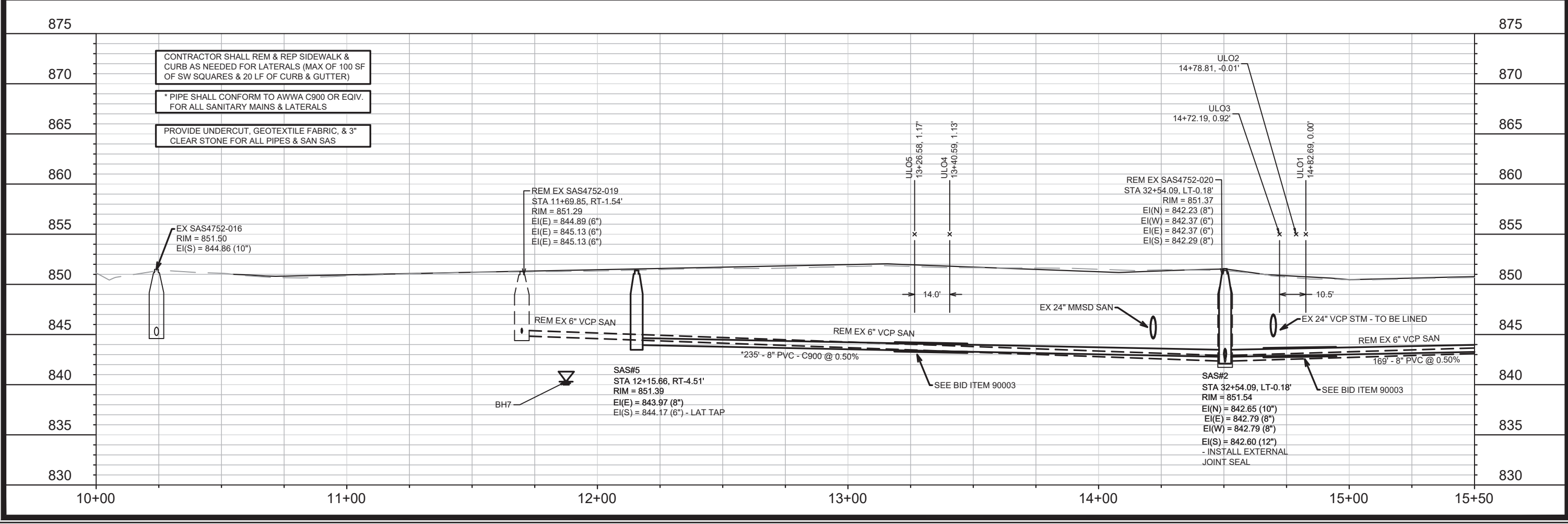


ALL PROPOSED
SANITARY HAS BEEN
CHANGED FOR
ADDENDUM 2

0709-232-2201-5
BROOKS TOWNE PARTNERS
ATTN FORWARD MANAGEMENT
1002 College Ct

0709-232-2101-7
COLLEGE PARK
ASSOCIATES
930 College Ct

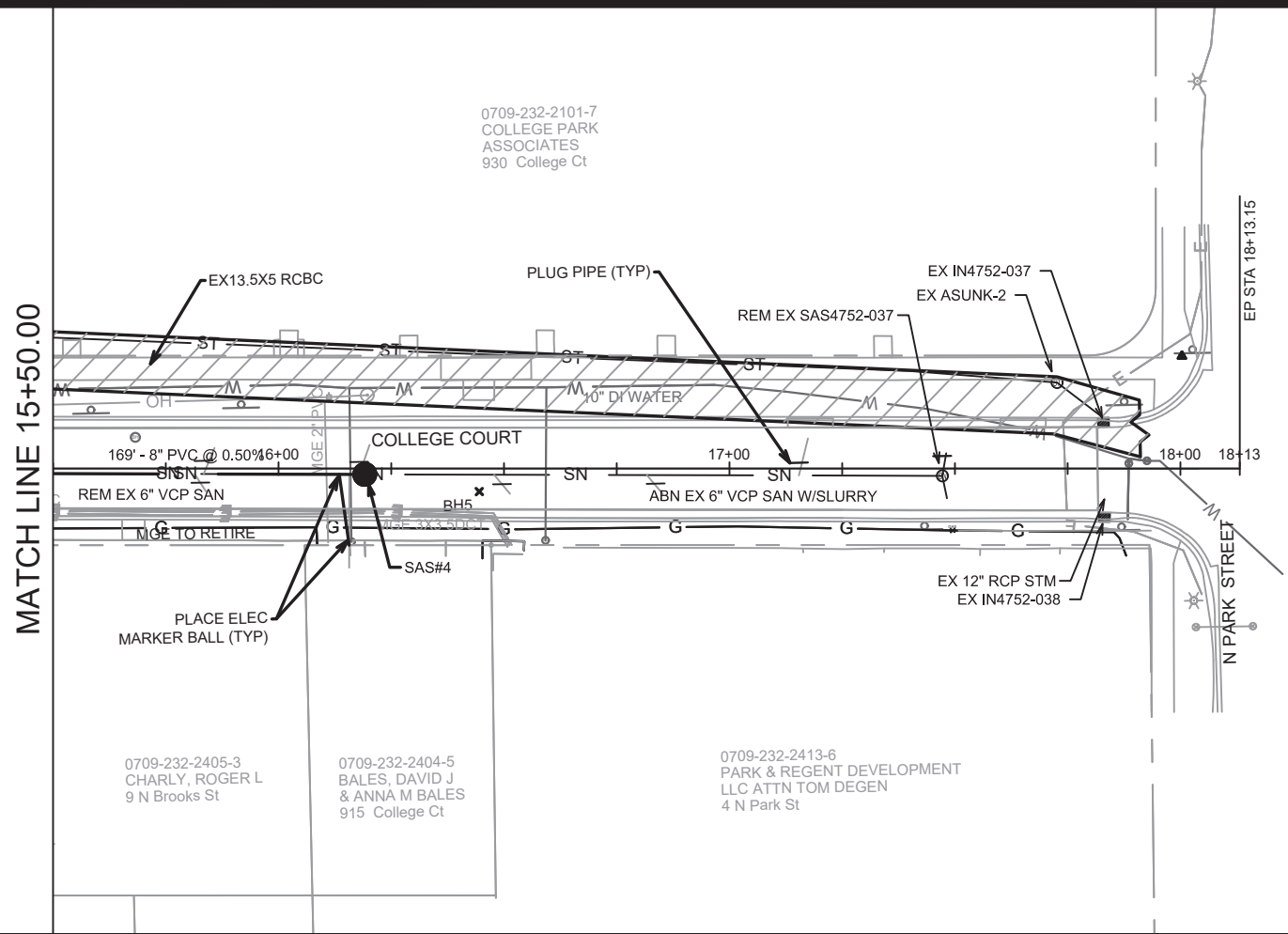
MATCH LINE 15+50.00



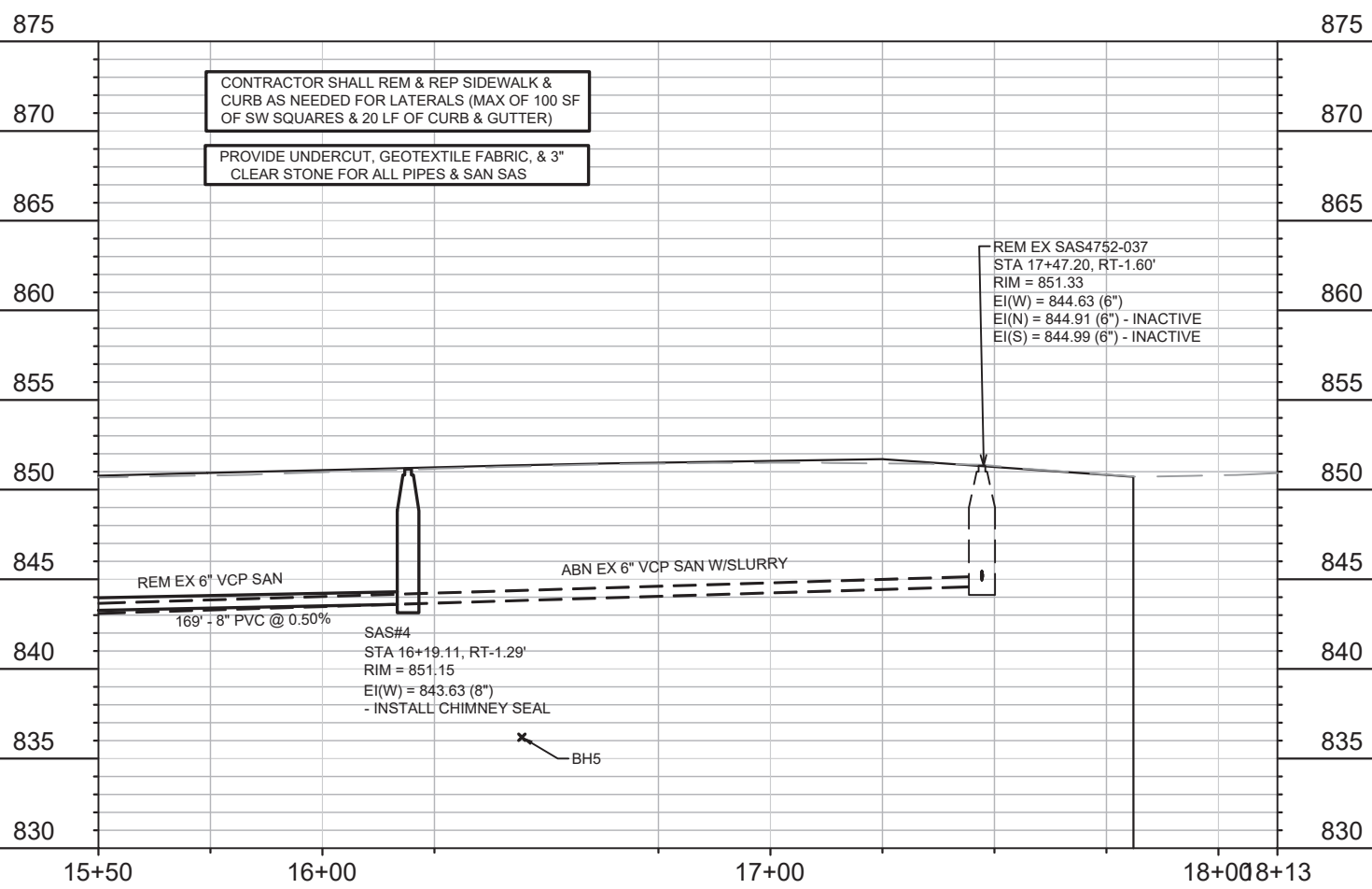
- CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX OF 100 SF OF SW SQUARES & 20 LF OF CURB & GUTTER)
- * PIPE SHALL CONFORM TO AWWA C900 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS
- PROVIDE UNDERCUT, GEOTEXTILE FABRIC, & 3" CLEAR STONE FOR ALL PIPES & SAN SAS

13180	ADDENDUM 2	DATE: 4/26/21	BY: DAO	U-3
13180	REVISION	DATE: 4/27/2021 9:13 AM	Scale: #####	
13180				

13180	CONTRACT NO: 8576
SEWER UTILITY PLAN & PROFILE - COLLEGE CT	
N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021 MADISON, WI	
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13180	U-3



ALL PROPOSED
 SANITARY HAS BEEN
 CHANGED FOR
 ADDENDUM 2



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX OF 100 SF OF SW SQUARES & 20 LF OF CURB & GUTTER)

PROVIDE UNDERCUT, GEOTEXTILE FABRIC, & 3" CLEAR STONE FOR ALL PIPES & SAN SAS

REM EX SAS4752-037
 STA 17+47.20, RT-1.60'
 RIM = 851.33
 EI(W) = 844.63 (6")
 EI(N) = 844.91 (6") - INACTIVE
 EI(S) = 844.99 (6") - INACTIVE

SAS#4
 STA 16+19.11, RT-1.29'
 RIM = 851.15
 EI(W) = 843.63 (8")
 - INSTALL CHIMNEY SEAL

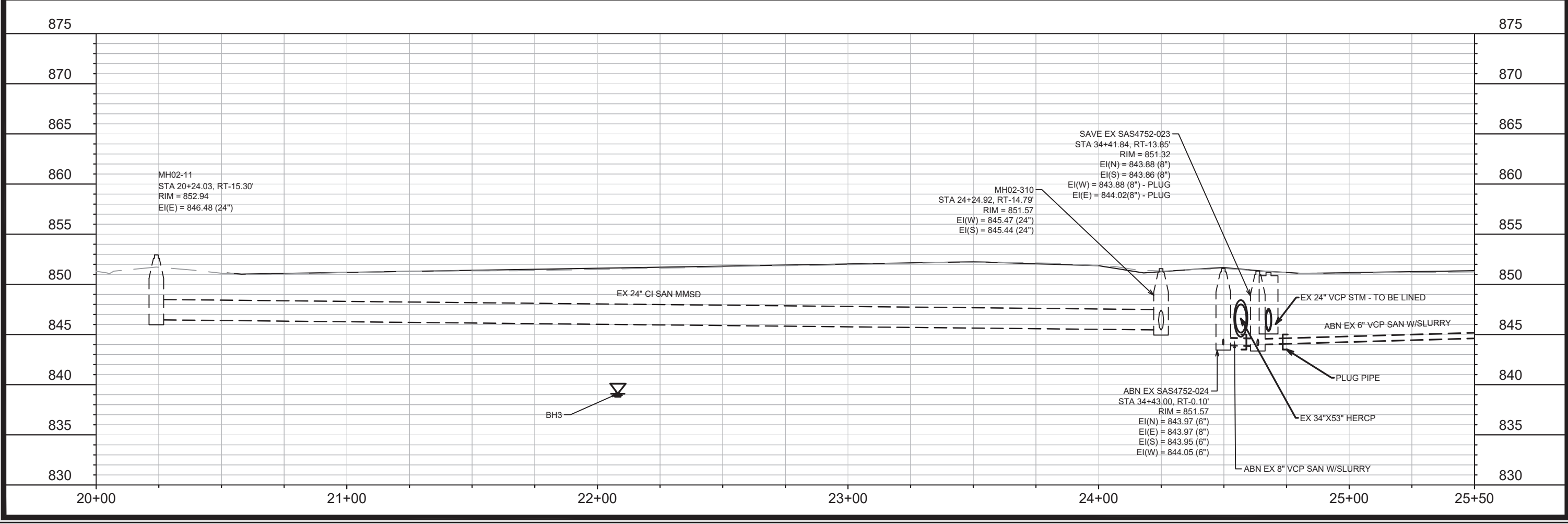
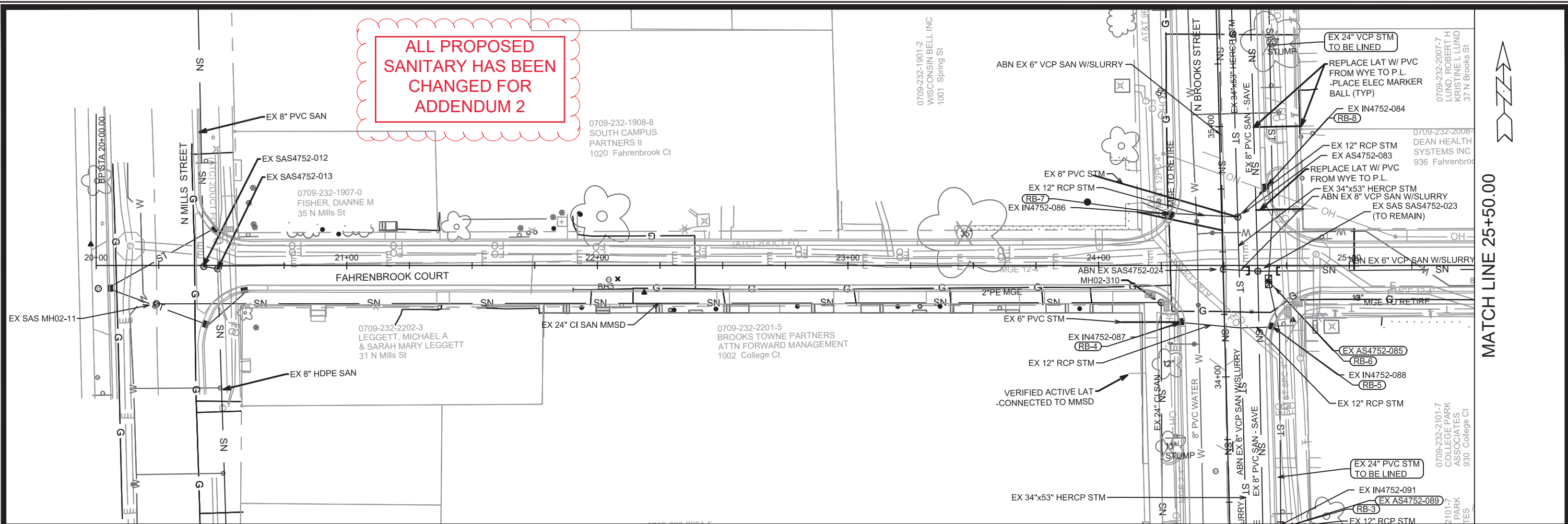
MARK	DATE	BY
ADDENDUM 2	4/26/21	DAO
REVISION	Date: 4/26/2021 3:54 PM	Scale: #####
Designed By: DAO	13180	U-4

13180
 SEWER UTILITY PLAN & PROFILE - COLLEGE CT
 N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMT DIST-2021
 MADISON, WI
 CONTRACT NO: 8576
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13180
 U-4

**ALL PROPOSED
SANITARY HAS BEEN
CHANGED FOR
ADDENDUM 2**



MATCH LINE 25+50.00

13180	ADDENDUM 2	DATE	BY	U-5
13180	REVISION	Date: 4/26/2021 3:54 PM		
13180	MARK	Scale: #####		
13180	DAO			

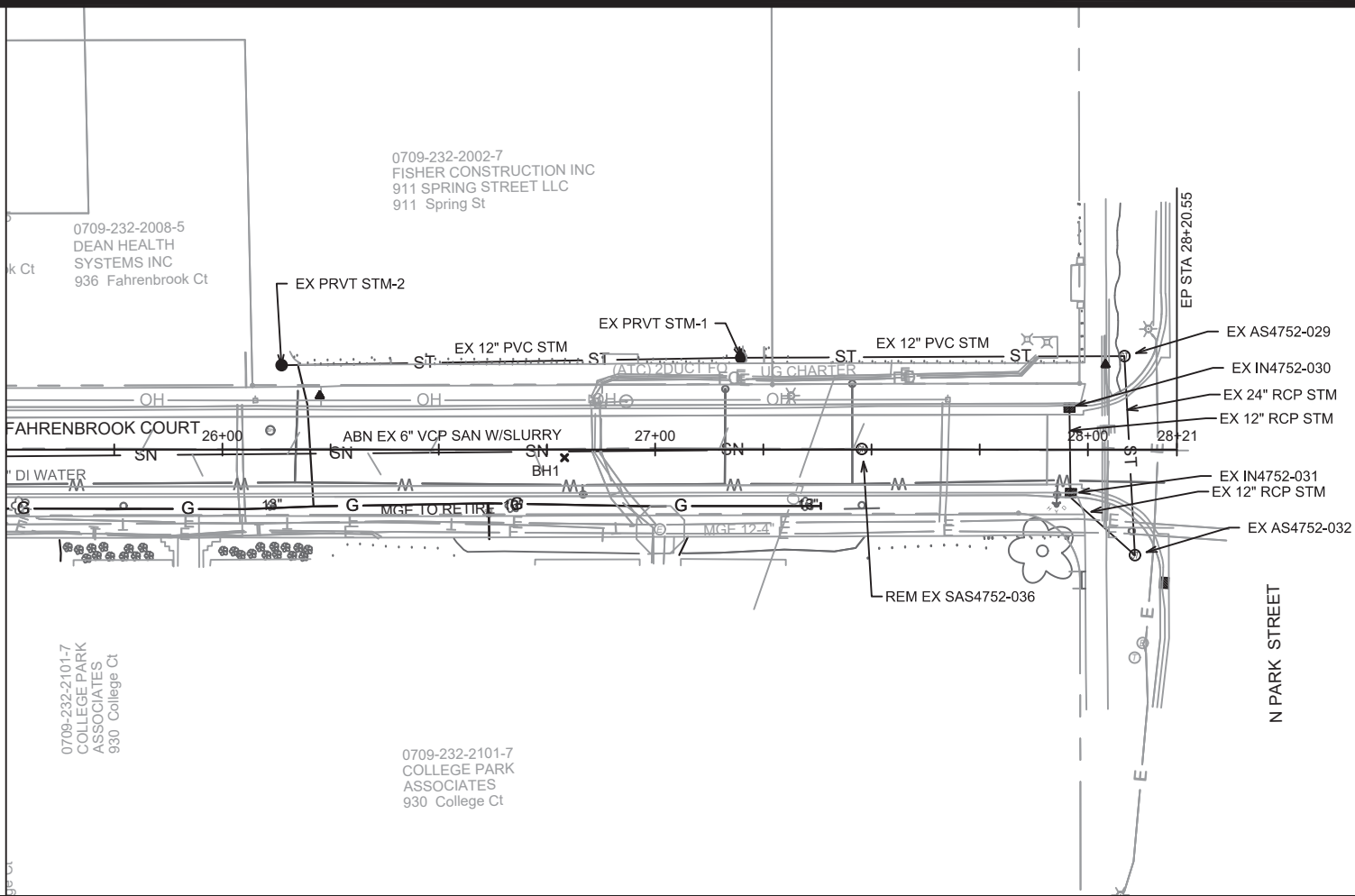
13180
MADISON, WI
CONTRACT NO: 8576

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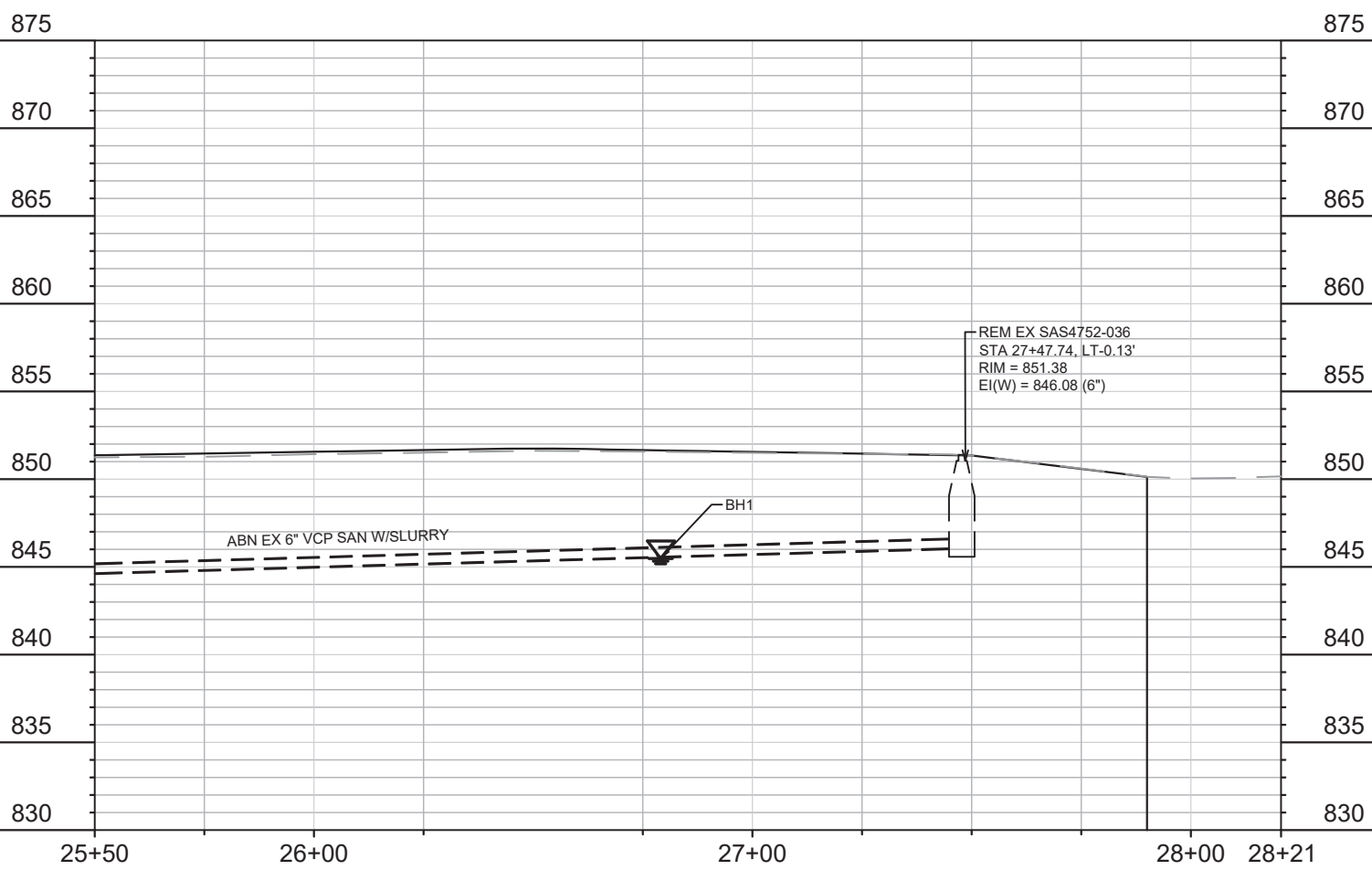
SEWER UTILITY PLAN & PROFILE - FAHRENBROOK CT
N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021

13180
U-5

MATCH LINE 25+50.00



ALL PROPOSED
SANITARY HAS BEEN
CHANGED FOR
ADDENDUM 2



MARK	DATE	BY
ADDENDUM 2	4/26/21	DAO
REVISION	DATE	BY
13180	4/26/2021 3:55 PM	Scale: #####
U-6		

13180
SEWER UTILITY PLAN & PROFILE - FAHRENBROOK CT
N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021
MADISON, WI
CONTRACT NO: 8576
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13180
U-6

SANITARY SEWER SCHEDULE

* ADDENDUM 2 - DAO 4/26/21

N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021 PROJECT NO. 12956	SHEET NO. U-7
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

U-7

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
<u>N BROOKS ST</u>						
SAS#1	30+73.77	RT-0.18	850.49	842.37	8.12	(1)(2)
SAS#2	32+54.09	LT-0.18	851.54	842.60	8.94	(2)
SAS#3	32+98.36	RT-0.10	851.22	842.69	8.53	(1)(2)
<u>COLLEGE CT</u>						
* SAS#4	16+19.11	RT-1.29	851.15	843.63	7.52	(1)
* SAS#5	12+15.66	RT-4.51	851.39	843.97	7.42	

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<u>N BROOKS ST</u>								
* MH02-007	SAS#1	842.35	842.37	16	0.10%	12"	SDR-35	
* SAS#1	SAS#2	842.42	842.60	180	0.10%	12"	SDR-35	
SAS#2	SAS#3	842.65	842.69	44	0.10%	10"	SDR-35	
<u>COLLEGE CT</u>								
* SAS#2	SAS#4	842.79	843.63	169	0.50%	8"	SDR-35	(3); STA 13+20 TO STA 13+45
* SAS#2	SAS#5	842.79	843.97	235	0.50%	8"	C900	(3); STA 14+65 TO STA 14+90

SANITARY STRUCTURE REMOVALS & ABANDONMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<u>N BROOKS ST</u>						
SAS4752-018	30+73.75	LT-0.18	850.49	842.73	7.76	
SAS4752-020	32+54.09	LT-0.18	851.34	842.23	9.11	
SAS4752-022	32+98.36	LT-0.05	851.15	843.05	8.10	
* SAS4752-024	34+43.00	LT-0.10	851.57	843.95	7.62	ABANDON
<u>COLLEGE CT</u>						
SAS4752-019	11+69.85	RT-1.54	851.29	844.89	6.40	
SAS4752-037	17+47.20	RT-1.60	851.33	844.63	6.70	
<u>FAHRENBROOK CT</u>						
SAS4752-036	27+47.74	LT-0.13	851.38	846.08	5.30	

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	TOTAL LGTH PIPE (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	PD REM LEN (FT)	PD ABN W/SLURRY LEN (FT)
<u>N BROOKS ST</u>							
MH02-007	SAS4752-018	16	VCP	6"	N		
SAS4752-018	SAS4752-020	180	VCP	6"	N		
* SAS4752-020	SAS4752-022	44	DI	6"	Y		44
* SAS4752-022	SAS4752-024	145	VCP	6"	Y		145
* SAS4752-023	SAS4752-024	7	VCP	8"	Y		7
* SAS4752-024	SAS4752-026	126	VCP	6"	Y		126
<u>COLLEGE CT</u>							
* SAS4752-020	SAS4752-019	281	VCP	6"	Y	43	
* SAS4752-020	SAS4752-037	297	VCP	6"	Y		144
<u>FAHRENBROOK CT</u>							
* SAS4752-023	SAS4752-036	284	VCP	6"	Y		284

ULOS

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<u>COLLEGE CT</u>				
ULO1	14+82.69	CL	TELE	
ULO2	14+78.81	LT-0.01	FIBER	
ULO3	14+72.19	RT-0.92	FIBER	
ULO4	13+40.59	RT-1.13	ELEC	
ULO5	13+26.58	RT-1.17	ELEC	
<u>N BROOKS ST</u>				
* ULO6	32+45.89	RT-0.09	ELEC	

SPECIFIC NOTES

- (1) INSTALL INTERNAL CHIMNEY SEAL
- (2) PROVIDE EXTERNAL SAS JOINT SEAL
- (3) INSTALL 8 INCH DIAMETER SEWER (PUSH METHOD, BORE & JACK, PIPE BURSTING, OR OPEN CUT TRENCH WITH TUNNELING)) (SEE BID ITEM 90003)

STORM SEWER SCHEDULE

* ADDENDUM 2 - DAO 4/26/21

N BROOKS ST, FAHRENBROOK CT & COLLEGE CT RES ASMNT DIST-2021 PROJECT NO. 13180	SHEET NO. U-8	8 U
STORM SEWER SCHEDULE		
CITY OF MADISON		

REBUILD STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH	NOTES	NOTES
<u>N BROOKS ST</u>							
RB-1	IN4752-099	30+91.57	LT-17.54	H INLET	3.18	FP; (1)	
RB-2	AS4752-090	32+48.05	RT-18.97	5X7 CB	7.40	(2)	
RB-3	AS4752-089	33+39.08	RT-20.30	5X7 CB	8.50	(2)	
RB-4	IN4752-087	34+22.39	LT-17.43	H INLET	3.53	FP; (1)	
RB-5	IN4752-088	24+19.68	RT-18.98	H INLET	3.26	FP; (1)	
RB-6	AS4752-085	34+37.70	RT-18.03	5X7 CB	5.80	(2)	
RB-7	IN4752-086	34+65.45	LT-20.27	H INLET	2.18	FP; (1)	
RB-8	IN4752-084	34+75.41	RT-17.89	H INLET	2.55	FP; (1)	
<u>COLLEGE CT</u>							
RB-9	IN4752-093	15+00.03	RT-10.24	H INLET	2.10	FP; (1)	
RB-10	IN4752-094	15+00.99	LT-10.56	H INLET	4.48	FP; (1)	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
* S-1	32+84.01	RT-6.44	ROOF REPL W/CASTING	851.13	844.10	7.03	FP; (4)

PROPOSED STORM PIPES TO BE LINED

FROM (DNSTM)	TO (UPSTM)	PIPE SIZE	PIPE LGTH (FT)	TYPE	LATERALS	NOTES
<u>N BROOKS ST</u>						
UNK IN AT REGENT	AS4752-090	24"	170	VCP	1	(3)
AS4752-090	AS4752-089	24"	91	VCP	0	
AS4752-089	AS4752-085	24"	99	VCP	0	
AS4752-085	IN4752-121	24"	169	VCP	0	

SPECIFIC NOTES

- (1) REBUILD H-INLET W/ SALVAGED CASTINGS
- (2) RECONSTRUCT ROOF; REPLACE CASTING W/ TWO 1550-0054
- (3) REPAIR 6" STORM LATERAL AT MAIN; REPLACE W/ PVC IF NECESSARY
- * (4) PROVIDE OPENING IN ACCORDANCE WITH STRUCTURAL DETAILS ON SHEET D-3; INSTALL NEENAH CASTING 1550-0054 AT STA 32+84.01, RT-6.44, RIM = 851.13

STANDARD NOTES:

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

-ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED IN SPECIAL BID ITEM SPECIFICATIONS OR DETAIL DRAWINGS. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.

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

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

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

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

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

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

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

SECTION E: BIDDERS ACKNOWLEDGEMENT

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT
RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO. 8576**

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 - 2021 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. 1 through 2 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 Speedway Sand & Gravel 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.

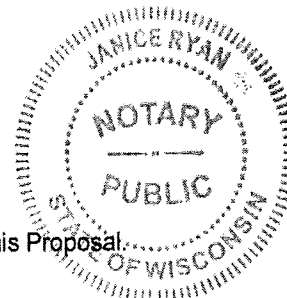
Dustin Bithun
SIGNATURE

Project Manager
TITLE, IF ANY

Sworn and subscribed to before me this
29th day of April, 2021.

Janice Ryan
(Notary Public or other officer authorized to administer oaths)
My Commission Expires 10/21/2021

Bidders shall not add any conditions or qualifying statements to this Proposal.



Contract 8576 – Speedway Sand & Gravel, Inc.

Section F: Best Value Contracting (BVC)

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

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

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

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

Best Value Contracting

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

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

- Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.
- No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.
- Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.
- First time contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.
- Contractor has been in business less than one year.
- Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade.
- An exemption is granted in accordance with a time period of a "Documented Depression" as defined by the State of Wisconsin.

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

agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

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

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

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

NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT
RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO. 8576

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

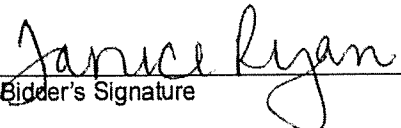
Company: Speedway Sand & Gravel Inc.
Address: 8500 Greenway Blvd Suite 202, Middleton, WI 53562
Telephone Number: 608-836-2980 Fax Number: 608-836-7485
Contact Person/Title: Janice Ryan, Corporate Secretary

Prime Bidder Certification

I, Janice Ryan, Corporate Secretary of
Name Title
Speedway Sand & Gravel Inc. certify that the information
Company

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


Witness' Signature


Bidder's Signature

April 29, 2021
Date

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT
RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO. 8576**

Small Business Enterprise Compliance Report

Summary Sheet

SBE Subcontractors Who Are NOT Suppliers

Name(s) of SBEs Utilized	Type of Work	5 % of Total Bid Amount	
			%
Schlobohm Trucking	Hauling Materials	2.78	%
JR's Contruction & Landscaping	EC, Seeding, Matting Inlet Protection	2.34	%
			%
			%
			%
			%
			%
			%
			%
			%
			%
			%
			%
			%
Subtotal SBE who are NOT suppliers:		<u>5.12</u>	%

SBE Subcontractors Who Are Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount	
			%
			%
			%
			%
			%
			%
			%
Subtotal Contractors who are suppliers:		_____ % x 0.6 = _____	% (discounted to 60%)
Total Percentage of SBE Utilization:		<u>5.12</u>	%.

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING
ASSESSMENT DISTRICT -2021**

CONTRACT NO. 8576

DATE: 4/29/21

**Speedway Sand & Gravel,
Inc.**

Item	Quantity	Price	Extension
Section B: Proposal Page			
10701.0 - TRAFFIC CONTROL - LUMP SUM	1.00	\$8,500.00	\$8,500.00
10911.0 - MOBILIZATION - LUMP SUM	1.00	\$176,000.00	\$176,000.00
20101.0 - EXCAVATION CUT - C.Y.	405.00	\$10.00	\$4,050.00
20219.0 - BREAKER RUN - TON	875.00	\$10.00	\$8,750.00
20221.0 - TOPSOIL - S.Y.	250.00	\$8.49	\$2,122.50
20322.0 - REMOVE CONCRETE CURB & GUTTER - L.F.	950.00	\$3.90	\$3,705.00
20323.0 - REMOVE CONCRETE SIDEWALK & DRIVE - S.F.	4980.00	\$1.50	\$7,470.00
20401.0 - CLEARING - I.D.	67.00	\$32.50	\$2,177.50
20406.0 - GRUBBING - I.D.	101.00	\$32.50	\$3,282.50
20701.0 - TERRACE SEEDING - S.Y.	250.00	\$8.00	\$2,000.00
21061.0 - EROSION MATTING, CLASS I, URBAN TYPE A - S.Y.	250.00	\$10.00	\$2,500.00
30201.0 - TYPE "A" CONCRETE CURB & GUTTER(UNDISTRIBUTED) - L.F.	250.00	\$36.50	\$9,125.00
30208.0 - HAND FORMED CURB AND GUTTER(UNDISTRIBUTED) - L.F.	950.00	\$36.50	\$34,675.00
30301.0 - 5 INCH CONCRETE SIDEWALK - S.F.	4025.00	\$7.56	\$30,429.00
30302.0 - 7 INCH CONCRETE SIDEWALK & DRIVE - S.F.	955.00	\$8.49	\$8,107.95
40202.0 - HMA PAVEMENT 4 LT 58-28S - TON	1075.00	\$64.50	\$69,337.50
40211.0 - TACK COAT - GAL	495.00	\$2.00	\$990.00
40311.0 - PULVERIZE AND SHAPE - S.Y.	4910.00	\$3.60	\$17,676.00
20217.0 - CLEAR STONE - TON	450.00	\$8.00	\$3,600.00
21002.0 - EROSION CONTROL INSPECTION - EACH	4.00	\$500.00	\$2,000.00
21011.0 - CONSTRUCTION ENTRANCE - EACH	2.00	\$1,500.00	\$3,000.00
21012.0 - STREET CONSTRUCTION ENTRANCE BERM - EACH	6.00	\$50.00	\$300.00
21013.0 - STREET SWEEPING - LUMP SUM	1.00	\$1,000.00	\$1,000.00
21031.0 - INLET PROTECTION TYPE C (UNDISTRIBUTED) - EACH	3.00	\$160.00	\$480.00
21049.0 - INLET PROTECTION, RIGID FRAME - PROVIDE AND INSTALL - EACH	30.00	\$300.00	\$9,000.00
21050.0 - INLET PROTECTION, RIGID FRAME - MAINTAIN - EACH	30.00	\$65.00	\$1,950.00
21051.0 - INLET PROTECTION, RIGID FRAME - REMOVE - EACH	30.00	\$25.00	\$750.00
40366.0 - REBUILD INLET - EACH	7.00	\$3,000.00	\$21,000.00
40371.0 - REBUILD ACCESS STRUCTURE TOP - EACH	3.00	\$1,200.00	\$3,600.00
50390.0 - SEWER ELECTRONIC MARKERS (UNDIST) - EACH	5.00	\$50.00	\$250.00
50908.0 - FURNISH AND INSTALL CIPP TO REHABILITATE 24-INCH DIAMETER STORM SEWER MAINS - L.F.	570.00	\$175.00	\$99,750.00
50909.0 - REINSTATE AND RECONNECT SERVICE OPENINGS - EACH	1.00	\$75.00	\$75.00
90001.0 - PRIVATE STORM DRAINPIPE CONNECTION – TYPE A - EACH	11.00	\$150.00	\$1,650.00
90002.0 - PRIVATE STORM DRAINPIPE CONNECTION – TYPE B - LUMP SUM	1.00	\$2,200.00	\$2,200.00
20217.0 - CLEAR STONE - TON	230.00	\$8.00	\$1,840.00
20241.0 - RIPRAP FILTER FABRIC, TYPE HR - S.Y.	2370.00	\$2.50	\$5,925.00
20311.0 - REMOVE SEWER ACCESS STRUCTURE (SANITARY) - EACH	6.00	\$200.00	\$1,200.00
20314.0 - REMOVE PIPE - LF	43.00	\$18.72	\$804.96
20331.0 - ABANDON SEWER ACCESS STRUCTURE - EACH	1.00	\$200.00	\$200.00

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING
ASSESSMENT DISTRICT -2021**

CONTRACT NO. 8576

DATE: 4/29/21

**Speedway Sand & Gravel,
Inc.**

Item	Quantity	Price	Extension
20335.0 - ABANDON SEWER PIPE WITH SLURRY - CY	5.50	\$770.00	\$4,235.00
40321.0 - UNDERCUT - CY	180.00	\$123.00	\$22,140.00
50103.0 - RECONSTRUCT BENCH & FLOWLINE - EACH	1.00	\$1,440.00	\$1,440.00
50202.0 - TYPE II DEWATERING - LUMP SUM	1.00	\$1,000.00	\$1,000.00
50212.0 - SELECT BACKFILL SANITARY SEWER - T.F.	781.00	\$1.00	\$781.00
50225.0 - UTILITY TRENCH PATCH TYPE III - T.F.	18.00	\$90.00	\$1,620.00
50227.0 - UTILITY TRENCH PATCH TYPE IV - T.F.	763.00	\$5.00	\$3,815.00
50301.0 - 8 INCH PVC SEWER PIPE - L.F.	169.00	\$146.60	\$24,775.40
50302.0 - 10 INCH PVC SEWER PIPE - L.F.	44.00	\$159.77	\$7,029.88
50303.0 - 12 INCH PVC SEWER PIPE - L.F.	196.00	\$239.01	\$46,845.96
50321.0 - 8 INCH PVC PRESSURE SANITARY SEWER PIPE - LF	235.00	\$154.42	\$36,288.70
50353.0 - SANITARY SEWER LATERAL - L.F.	125.00	\$80.93	\$10,116.25
50355.0 - SANITARY SEWER LATERAL - PRESSURE PIPE - L.F.	12.00	\$141.90	\$1,702.80
50356.0 - RECONNECT - EACH	3.00	\$1,961.60	\$5,884.80
50361.0 - WASTEWATER CONTROL - LUMP SUM	1.00	\$10,000.00	\$10,000.00
50390.0 - SEWER ELECTRONIC MARKERS - EACH	13.00	\$40.00	\$520.00
50701.0 - 4' DIA SANITARY SAS - EACH	5.00	\$4,888.95	\$24,444.75
50771.0 - INTERNAL CHIMNEY SEAL - EACH	3.00	\$331.50	\$994.50
50791.0 - SANITARY SEWER TAP - EACH	5.00	\$50.00	\$250.00
50797.0 - EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL - EACH	3.00	\$449.50	\$1,348.50
50801.0 - UTILITY LINE OPENING (UNDISTRIBUTED) - EACH	10.00	\$900.00	\$9,000.00
BORE & JACK, OR OPEN CUT TRENCH WITH TUNNELING) - L.F.	50.00	\$229.34	\$11,467.00
90004.0 - SANITARY SEWER STORM BOX CROSSING - LUMP SUM	1.00	\$9,830.00	\$9,830.00
90005.0 - STORM WATER CONTROL - LUMP SUM	1.00	\$6,000.00	\$6,000.00
90006.0 - RCBC TOP SLAB OPENING - EACH	1.00	\$4,400.00	\$4,400.00
64 Items	Totals		\$797,402.45



Department of Public Works
Engineering Division
 Robert F. Phillips, P.E., City Engineer
 City-County Building, Room 115
 210 Martin Luther King, Jr. Boulevard
 Madison, Wisconsin 53703
 Phone: (608) 266-4751
 Fax: (608) 264-9275
engineering@cityofmadison.com
www.cityofmadison.com/engineering

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

Deputy Division Manager
 Kathleen M. Cryan

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

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

Facilities & Sustainability
 Bryan Cooper, Principal Architect

Mapping Section Manager
 Eric T. Pederson, P.S.

Financial Manager
 Steven B. Danner-Rivers

BIENNIAL BID BOND

Speedway Sand & Gravel, Inc.

(a corporation of the State of Wisconsin)
 (individual), (partnership), (hereinafter referred to as the "Principal") and
 Fidelity and Deposit Company of Maryland

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

The condition of this obligation is that the Principal has submitted to the City certain bids for projects from the time period of February 1, 2020 through January 31, 2022.

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

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

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

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

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

PRINCIPAL

Speedway Sand & Gravel, Inc.
COMPANY NAME AFFIX SEAL

November 11, 2019
DATE

By: *Janice Ryan*
SIGNATURE AND TITLE Corp Sec.

SURETY

Fidelity and Deposit Company of Maryland
COMPANY NAME AFFIX SEAL

November 11, 2019
DATE

By: *Nicole Stillings*
SIGNATURE AND TITLE
Nicole Stillings, Attorney-in-Fact

This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under National Provider No. 6966174 for the year 2020 and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked.

November 11, 2019
DATE

Nicole Stillings
AGENT SIGNATURE

1600 Aspen Commons, Suite 990
ADDRESS

Middleton, WI 53562
CITY, STATE AND ZIP CODE

608-242-2551
TELEPHONE NUMBER

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

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by **Robert D. Murray, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **Melinda C. BLODGETT, Colby D. WHITE, Jerome T. OUIMET, Nicole STILLINGS, John E. TAUER, Joshua R. LOFTIS, Kurt C. LUNDBLAD, Ted JORGENSEN, R. C. BOWMAN, and Brian J. OESTREICH**, all of Minneapolis, Minnesota, **EACH**, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND**, this 26th day of June, A.D. 2019.



ATTEST:
ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: *Robert D. Murray*
Vice President

By: *Dawn E. Brown*
Secretary

State of Maryland
County of Baltimore

On this 26th day of June, A.D. 2019, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **Robert D. Murray, Vice President and Dawn E. Brown, Secretary** of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2023

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Secretary of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 11th day of November, 2019.



Brian M. Hodges

By: Brian M. Hodges
Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims
1299 Zurich Way
Schaumburg, IL 60196-1056
www.reportsfclaims@zurichna.com
800-626-4577

CERTIFICATE OF BIENNIAL BID BOND

TIME PERIOD- VALID (FROM/TO) February 1, 2020 - January 31, 2022
NAME OF SURETY Fidelity and Deposit Company of Maryland
NAME OF CONTRACTOR Speedway Sand & Gravel, Inc.
CERTIFICATE HOLDER City of Madison, Wisconsin

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

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

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



SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE

12-10-19

DATE

SECTION H: AGREEMENT

THIS AGREEMENT made this 19th day of May in the year Two Thousand and Twenty-One between SPEEDWAY SAND & GRAVEL, INC. hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted MAY 18, 2021, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

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

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

NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT RESURFACING ASSESSMENT DISTRICT -2021 CONTRACT NO. 8576

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 SEVEN HUNDRED NINETY-SEVEN THOUSAND FOUR HUNDRED TWO AND 45/100 (\$797,402.45) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.
4. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

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

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

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

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

Articles of Agreement

Article I

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

Article II

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

Article III

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

Article V

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

Article VI

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

Article VII

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

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

Article VIII

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

Article IX

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

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

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

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

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

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

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

- b. **Requirements.** For the duration of this Contract, the Contractor shall:

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

c. Exemptions: This section shall not apply when:

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

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

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT
RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO. 8576**

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

SPEEDWAY SAND & GRAVEL, INC.

Company Name

Dustin Bittner May 19, 2021
Date
President PM

Janice Ryan May 19, 2021
Date
Secretary

Countersigned:

Kary May 19, 2021
Date
Witness

Kary May 19, 2021
Date
Witness

CITY OF MADISON, WISCONSIN

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

Michael Hoag 6/7/2021
Date
Finance Director

Michael Hoag 6/7/21
Date
Witness

JV 6/7/2021
Date
Witness

Approved as to form:

Michael Hoag 6-7-2021
Date
City Attorney

Michael Hoag 6/7/2021
Date
Mayor

Bonnie Chung June 2, 2021
Date
City Clerk

Muriel Witzel-Behnd

SECTION I: PAYMENT AND PERFORMANCE BOND

LET ALL KNOW BY THESE DOCUMENTS PRESENTED, that we SPEEDWAY SAND & GRAVEL, INC. as principal, and Fidelity and Deposit Company of Maryland Company of Schaumburg, IL as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of SEVEN HUNDRED NINETY-SEVEN THOUSAND FOUR HUNDRED TWO AND 45/100 (\$797,402.45) 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:

**NORTH BROOKS STREET, FAHRENBROOK COURT AND COLLEGE COURT
RESURFACING ASSESSMENT DISTRICT -2021
CONTRACT NO. 8576**

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 19th day of May, 2021

Countersigned:

Natalie Dickson
Witness

Jessica Ryan
Secretary

SPEEDWAY SAND & GRAVEL, INC.
Company Name (Principal)

Dustin Butler
President. pm Seal. NA

Approved as to form:

P. Michael Hoag
City Attorney

Fidelity and Deposit Company of Maryland
Surety Seal
 Salary Employee Commission
By *Nicole Stilings*
Attorney-in-Fact, **Nicole Stilings**

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Producer Number 6966174 for the year 2021, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

May 19, 2021
Date

Nicole Stilings
Agent Signature **Nicole Stilings**

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by **Robert D. Murray, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **Melinda C. BLODGETT, Colby D. WHITE, Jerome T. OUIMET, Nicole STILLINGS, John E. TAUER, Joshua R. LOFTIS, Kurt C. LUNDBLAD, Ted JORGENSEN, R. C. BOWMAN, and Brian J. OESTREICH**, all of Minneapolis, Minnesota, EACH, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND**, this 26th day of June, A.D. 2019.



ATTEST:
ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: *Robert D. Murray*
Vice President

By: *Dawn E. Brown*
Secretary

**State of Maryland
County of Baltimore**

On this 26th day of June, A.D. 2019, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **Robert D. Murray, Vice President and Dawn E. Brown, Secretary** of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, depose and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2023

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Secretary of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 19th day of May, 2021.



Brian M. Hodges

By: Brian M. Hodges
Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

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