

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
DT1502 01/2020 s.66.0901(7) Wis. Stats

Proposal Number: **002**

<u>STATE ID</u>	<u>FEDERAL ID</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>	<u>COUNTY</u>
5845-16-76	WISC 2026377	Stoughton - Madison, Exchange St to Larson Beach Rd	USH 051	Dane
5845-16-78	N/A	Stoughton - Madison, Yahara Dr to Dale Curtain Dr	USH 051	Dane
5845-16-87	N/A	Stoughton - Madison, Exchange St to Larson Beach Rd	USH 051	Dane
5845-16-89	N/A	Stoughton - Madison, Exchange St to Larson Beach Rd	USH 051	Dane
5845-16-90	N/A	Stoughton - Madison, Exchange St to Larson Beach Rd	USH 051	Dane

This proposal, submitted by the undersigned bidder to the Wisconsin Department of Transportation, is in accordance with the advertised request for proposals. The bidder is to furnish and deliver all materials, and to perform all work for the improvement of the designated project in the time specified, in accordance with the appended Proposal Requirements and Conditions.

Proposal Guaranty Required: \$640,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: July 14, 2026 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time May 26, 2028	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 0%	This contract is exempt from federal oversight.

This certifies that the undersigned bidder, duly sworn, is an authorized representative of the firm named above; that the bidder has examined and carefully prepared the bid from the plans, Highway Work Proposal, and all addenda, and has checked the same in detail before submitting this proposal or bid; and that the bidder or agents, officer, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal bid.

Do not sign, notarize, or submit this Highway Work Proposal when submitting an electronic bid on the Internet.

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

(Print or Type Name, Notary Public, State Wisconsin)

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

Type of Work: Removals, Grading, Aggregate, Concrete Pavement, Asphalt Pavement, Structure Replacement, Structure Rehabilitation, Culvert Pipe, Sign Structure, Curb and Gutter, Concrete Sidewalk, Storm Sewer, Beam Guard, Erosion Control, Permanent Signing, Traffic Control, Pavement Marking, Lighting, Traffic Signals, Sanitary, Water, Retaining Wall, Restoration.	For Department Use Only
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

PROPOSAL REQUIREMENTS AND CONDITIONS

The bidder, signing and submitting this proposal, agrees and declares as a condition thereof, to be bound by the following conditions and requirements.

If the bidder has a corporate relationship with the proposal design engineering company, the bidder declares that it did not obtain any facts, data, or other information related to this proposal from the design engineering company that was not available to all bidders.

The bidder declares that they have carefully examined the site of, and the proposal, plans, specifications and contract forms for the work contemplated, and it is assumed that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the specifications, special provisions and contract. It is mutually agreed that submission of a proposal shall be considered conclusive evidence that the bidder has made such examination.

The bidder submits herewith a proposal guaranty in proper form and amount payable to the party as designated in the advertisement inviting proposals, to be retained by and become the property of the owner of the work in the event the undersigned shall fail to execute the contract and contract bond and return the same to the office of the engineer within fourteen (14) days after having been notified in writing to do so; otherwise to be returned.

The bidder declares that they understand that the estimate of quantities in the attached schedule is approximate only and that the attached quantities may be greater or less in accordance with the specifications.

The bidder agrees to perform the said work, for and in consideration of the payment of the amount becoming due on account of work performed, according to the unit prices bid in the following schedule, and to accept such amounts in full payment of said work.

The bidder declares that all of the said work will be performed at their own proper cost and expense, that they will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications and the approved plans for the work together with all standard and special designs that may be designed on such plans, and the special provisions in the contract of which this proposal will become a part, if and when accepted. The bidder further agrees that the applicable specifications and all plans and working drawings are made a part hereof, as fully and completely as if attached hereto.

The bidder, if awarded the contract, agrees to begin the work not later than ten (10) days after the date of written notification from the engineer to do so, unless otherwise stipulated in the special provisions.

The bidder declares that if they are awarded the contract, they will execute the contract agreement and begin and complete the work within the time named herein, and they will file a good and sufficient surety bond for the amount of the contract for performance and also for the full amount of the contract for payment.

The bidder, if awarded the contract, shall pay all claims as required by Section 779.14, Statutes of Wisconsin, and shall be subject to and discharge all liabilities for injuries pursuant to Chapter 102 of the Statutes of Wisconsin, and all acts amendatory thereto. They shall further be responsible for any damages to property or injury to persons occurring through their own negligence or that of their employees or agents, incident to the performance of work under this contract, pursuant to the Standard Specifications for Road and Bridge Construction applicable to this contract.

In connection with the performance of work under this contract, the contractor agrees to comply with all applicable state and federal statutes relating to non-discrimination in employment. No otherwise qualified person shall be excluded from employment or otherwise be subject to discrimination in employment in any manner on the basis of age, race, religion, color, gender, national origin or ancestry, disability, arrest or conviction record (in keeping with s.111.32), sexual orientation, marital status, membership in the military reserve, honesty testing, genetic testing, and outside use of lawful products. This provision 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. The contractor further agrees to ensure equal opportunity in employment to all applicants and employees and to take affirmative action to attain a representative workforce.

The contractor agrees to post notices and posters setting forth the provisions of the nondiscrimination clause, in a conspicuous and easily accessible place, available for employees and applicants for employment.

If a state public official (section 19.42, Stats.) or an organization in which a state public official holds at least a 10% interest is a party to this agreement, this contract is voidable by the state unless appropriate disclosure is made to the State of Wisconsin Ethics Board.

BID PREPARATION

Preparing the Proposal Schedule of Items

A. General

- (1) Obtain bidding proposals as specified in section 102 of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:
 1. Electronic bid on the internet.
 2. Electronic bid on a printout with accompanying diskette or CD ROM.
 3. Paper bid under a waiver of the electronic submittal requirements.
- (2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.
- (3) The department will provide bidding information through the department's web site at:

<https://wisconsin.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 PM local time on the Thursday before the letting. Check the department's web site after 5:00 PM local time on the Thursday before the letting to ensure all addenda have been accounted for before preparing the bid. When bidding using methods 1 and 2 above, check the Bid Express™ on-line bidding exchange at <http://www.bidx.com/> after 5:00 PM local time on the Thursday before the letting to ensure that the latest schedule of items Expedite file (*.ebs or *.00x) is used to submit the final bid.

- (4) Interested parties can subscribe to the Bid Express™ on-line bidding exchange by following the instructions provided at the www.bidx.com web site or by contacting:

Info Tech Inc.
5700 SW 34th Street, Suite 1235
Gainesville, FL 32608-5371
email: <mailto:customer.support@bidx.com>

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:

<https://wisconsin.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the department's web site listed above or by picking up the addenda at the Bureau of Highway Construction, 4th floor, 4822 Madison Yards Way, Madison, WI, during regular business hours.

- (7) Addenda posted after 5:00 PM on the Thursday before the letting will be emailed to the eligible bidders for that proposal. All eligible bidders shall acknowledge receipt of the addenda whether they are bidding on the proposal or not. Not acknowledging receipt may jeopardize the awarding of the project.

B. Submitting Electronic Bids**B.1 On the Internet**

- (1) Do the following before submitting the bid:
 4. Have a properly executed annual bid bond on file with the department.
 5. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.
- (2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:
 1. Download the latest schedule of items reflecting all addenda from the Bid Express™ web site.
 2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
 4. Submit the bid before the hour and date the Notice to Contractors designates.
 5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.
- (3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

B.2 On a Printout with Accompanying Diskette or CD ROM

- (1) Download the latest schedule of items from the Wisconsin pages of the Bid Express web site reflecting the latest addenda posted on the department's web site at:
<https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>
Use Expedite™ software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid Express™ web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the Expedite™ generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal, not in the sealed bid envelope but due at the same time and place as the sealed bid, also provide the Expedite™ generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

- (3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.
- (4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.

- (5) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
1. The check code printed on the bottom of the printout of the ExpediteTM generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the ExpediteTM generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.
 3. The diskette or CD ROM is not submitted at the time and place the department designates.

B Waiver of Electronic Submittal

- (1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.
- (2) Submit a schedule of items on paper conforming to section 102 of the standard specifications. The department charges the bidder a \$75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."
- (3) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
 2. The bidder fails to pay the \$75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the \$75.
 3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.
- (4) In addition to the reasons specified in section 102 of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

Proposal Number	Project Number	Letting Date
Name of Principal		
Name of Surety	State in Which Surety is Organized	

We, the above-named Principal and the above-named Surety, are held and firmly bound unto the State of Wisconsin in the sum equal to the Proposal Guaranty for the total bid submitted for the payment to be made; we jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. The condition of this obligation is that the Principal has submitted a bid proposal to the State of Wisconsin acting through the Department of Transportation for the improvement designated by the Proposal Number and Letting Date indicated above.

If the Principal is awarded the contract and, within the time and manner required by law after the prescribed forms are presented for signature, enters into a written contract in accordance with the bid, and files the bond with the Department of Transportation to guarantee faithful performance and payment for labor and materials, as required by law, or if the Department of Transportation shall reject all bids for the work described, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect. In the event of failure of the Principal to enter into the contract or give the specified bond, the Principal shall pay to the Department of Transportation **within 10 business days of demand** a total equal to the Proposal Guaranty as liquidated damages; the liability of the Surety continues for the full amount of the obligation as stated until the obligation is paid in full.

The Surety, for value received, agrees that the obligations of it and its bond shall not be impaired or affected by any extension of time within which the Department of Transportation may accept the bid; and the Surety does waive notice of any such extension.

IN WITNESS, the Principal and Surety have agreed and have signed by their proper officers and have caused their corporate seals to be affixed this date: **(DATE MUST BE ENTERED)**

PRINCIPAL

(Company Name) **(Affix Corporate Seal)**

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

(Name of Surety) **(Affix Seal)**

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

IMPORTANT: A certified copy of Power of Attorney of the signatory agent must be attached to the bid bond.

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

Time Period Valid (From/To)	
Name of Surety	
Name of Contractor	
Certificate Holder	Wisconsin Department of Transportation

This is to certify that an annual bid bond issued by the above-named Surety is currently on file with the Wisconsin Department of Transportation.

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 annual 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)

(Date)

LIST OF SUBCONTRACTORS

Section 66.0901(7), Wisconsin Statutes, provides that as a part of the proposal, the bidder also shall submit a list of the subcontractors the bidder proposes to contract with and the class of work to be performed by each. In order to qualify for inclusion in the bidder's list a subcontractor shall first submit a bid in writing, to the general contractor at least 48 hours prior to the time of the bid closing. The list may not be added to or altered without the written consent of the municipality. A proposal of a bidder is not invalid if any subcontractor and the class of work to be performed by the subcontractor has been omitted from a proposal; the omission shall be considered inadvertent or the bidder will perform the work personally.

No subcontract, whether listed herein or later proposed, may be entered into without the written consent of the Engineer as provided in Subsection 108.1 of the Standard Specifications.

[illegible]

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS - PRIMARY COVERED TRANSACTIONS

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.
4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.
7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR- 1273 - "Required Contract Provisions Federal Aid Construction Contracts," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

1. The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

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STSP'S Revised January 1, 2026

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for the following projects:

Project ID 5845-16-76
Stoughton - Madison
Exchange St to Larson Beach Rd
USH 51
Dane County

Project ID 5845-16-87
Stoughton – Madison
Exchange St to Larson Beach Rd
USH 51
Dane County

Project ID 5845-16-90
Stoughton – Madison
Exchange St to Larson Beach Rd
USH 51
Dane County

Project ID 5845-16-78
Stoughton – Madison
Yahara Dr to Dale Curtain Dr
USH 51
Dane County

Project ID 5845-16-89
Stoughton – Madison
Exchange St to Larson Beach Rd
USH 51
Dane County

Perform the work as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2025 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20260101)

2. Scope of Work.

The work under this contract shall consist of excavation common, select crushed material, base course dense, concrete pavement, HMA pavement, monotube cantilever sign structures, concrete curb and gutter, concrete sidewalk, concrete barrier, storm sewer, culvert pipe, permanent signing, traffic control, pavement marking, lighting, temporary traffic signals, traffic signals, sanitary sewer system components, water distribution system components, MGS guardrail, bridge replacement (B-13-0907), concrete masonry endwall, wall concrete panel mechanically stabilized earth, concrete masonry retaining walls, piling steel sheet permanent (retaining wall), soldier pile retaining walls and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within 10 calendar days after the engineer issues a written notice to do so.

Provide the start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the approved start date.

To revise the start date, submit a written request to the engineer at least two weeks before the intended start date. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

The contract time for completion is based on an expedited work schedule and may require extraordinary forces and equipment.

General

Have a superintendent or designated representative from the prime contractor on the job site during all controlling work operations, including periods limited to only subcontractor work operations, to serve as a primary contact person and to coordinate all work operations.

The contractor is advised to mobilize construction equipment that is a size suitable for maneuvering in the limited area throughout the project.

USH 51 is access controlled, new select site access from USH 51 will not be allowed.

In locations where the plans indicate night work is needed, complete the work between the hours of 7 pm to 6 am.

Minimize the amount of dust created from construction. During construction operations, if aggregate, slurry from saw cutting, or other construction materials are in the travel way immediately clean up the area.

Contractor Coordination

Hold progress meetings once a week. The contractor's superintendent or designated representative and subcontractor's representatives for ongoing subcontract work or subcontractor work to begin within the next two weeks are to attend and provide a written schedule of the next week(s) operations. Include begin and end dates of specific prime and subcontractor operations. Invite utilities, area first responders (police, fire, EMS), Dane County Sheriffs Department, Dane County Highway Department, Village of McFarland, Dane County Park and McFarland School District representatives to attend the progress meetings. Agenda items at the meeting will include review of the previous week worked, review of the contractor's schedule and subcontractors' schedule, evaluation of progress and pay items, and making revisions if necessary. Plans and specifications for upcoming work will be reviewed to prevent potential problems or conflicts between contractors.

Based on the progress meeting, if a new revised schedule is requested by the engineer, submit it within seven calendar days. Failure to submit a new schedule within seven days shall result in the engineer holding pay requests until received.

Notify in writing area first responders (police, fire, EMS), Dane County Sheriff's Department, area school districts and bus companies, garbage/recycling pick-up companies, and the post office two weeks in advance of the start of the project, and at least three days in advance of all traffic switches, full night closures and all access changes to side streets or commercial entrances regardless of whether the change is part of a planned traffic control stage or an access change needed to accommodate contractor operations.

C Interim Completion and Liquidated Damages – USH 51, sanitary relocations and bridge replacement (B-13-0907): July 1, 2027

Complete Stage 2 construction operations as shown on the plans within Project 5845-16-76, 5845-16-80, 5845-16-87, and 5845-16-89 to the stage necessary to reopen USH 51 to through traffic by July 1, 2027. Do not reopen until the sanitary sewer relocations, the deck on B-13-0907 and all other construction is completed to allow for USH 51 to be reopened to traffic throughout the project.

If the contractor fails to complete the work necessary to reopen USH 51 at the Yahara River Bridge (B-13-0907) to traffic by July 1, 2027, the department will assess the contractor \$5,000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on July 2, 2027. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

If contract time expires prior to completing all work specified in the contract, additional liquidated damages will be affixed according to standard spec 108.11.

Interim Completion and Liquidated Damages – USH 51, Stage 4 Completion: November 13, 2027

Complete construction through Stage 4 operations as shown on the plans within Project 5845-16-76 and 5845-16-78 to the stage necessary to reopen USH 51 to four lanes of traffic for winter shutdown.

If the contractor fails to complete the work necessary to reopen USH 51 to four lanes of traffic for winter shutdown by November 13, 2027, the department will assess the contractor \$3,000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on November 13, 2027. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

If contract time expires prior to completing all work specified in the contract, additional liquidated damages will be affixed according to standard spec 108.11.

Interim Completion and Liquidated Damages – Farwell Street intersection: 4 Calendar Days

The Farwell Street intersection will be allowed to be closed for up to 4 consecutive calendar days during Stage 2 for the construction of watermain and sanitary sewer relocations, and storm sewer installation as shown in the plans. Do not reopen the intersection until all debris and equipment are removed from the traveled way and all signs, barrels, barricades, and traffic control devices required for the intersection closure are covered, moved, or removed. Closure of Farwell St cannot coincide with the closure of Burma Rd.

If the contractor fails to complete the work necessary to reopen the Farwell Street intersection within 4 consecutive calendar days of closing the roadway during Stage 2, the department will assess the contractor \$4,000 in interim liquidated damages for each calendar day the intersection remains closed beyond 4 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

If contract time expires prior to completing all work specified in the contract, additional liquidated damages will be affixed according to standard spec 108.11.

Construction Operations

Perform construction operations on USH 51 and area roadways as shown in the plans and described in this article.

Stage 1A:

- Begin sanitary sewer relocations near the Yahara River Bridge to allow for bridge removal and sheet piling installation in Stage 2. Install culvert crossings at STA 885+50'NB'.
- Install storm sewer network south of Larson Beach Road as shown in the plans from STA 886+50'NB' to STA 888+20'NB'. Temporary asphaltic surface shall be placed prior to traffic shifts during interim stages.
- Remove medians and install temporary pavement for subsequent stages as shown on the plans.

Stage 1B:

- Continue sanitary sewer relocations near the Yahara River Bridge to allow bridge removal and sheet piling installation in Stage 2.
- Complete necessary watermain and sanitary relocations in the southwest quadrant of Farwell Street.
- Install new storm sewer outfalls in the southwest quadrant of Farwell Street. Install temporary storm sewer connections to maintain storm sewer flow.
- Complete storm sewer installation from Dale Rd to Larson Beach Road as shown in the plans. Temporary asphaltic surface shall be placed prior to traffic shifts during interim stages.
- Construct temporary widening as shown in the plans.
- Complete new sidewalk on the west side of USH 51 between Burma Rd and Severson St.
- Install culvert crossing of Larson Beach Road at STA 102+35'LEB' during a night closure from 7 pm to 6 am. Install north half of the storm sewer crossing of Larson Beach Road at STA 104+40'LWB'.
- Install temporary pavement for subsequent stages as shown on the plans.

Stage 2:

- Close USH 51 to through traffic and begin Stage 2 no earlier than December 1, 2026.
- Stage 2 construction includes the following locations as shown on the plans:
 - NB USH 51 from STA 836+35'NB' to STA 842+25'NB'
 - NB and SB USH 51 from STA 842+25'NB' to STA 865+88'NB'
 - NB USH 51 from STA 865+88'NB' to STA 894+44'NB'
- Yahara Dr, East Burma Rd, north side of Farwell Street, south side of Dale Curtain Drive, and south side of Larson Beach Road.
- Complete removals as shown on the plans.
- Complete necessary watermain and sanitary relocations in the southeast quadrant of Farwell Street.
- Install new storm sewer in the southeast quadrant of Farwell Street. Complete permanent connection to existing 72-inch culvert. Install temporary storm sewer connections to maintain storm sewer flow.
- Remove the existing Yahara River bridge and complete the deck installation of the new Yahara River bridge, B-13-0907.
- Complete sanitary sewer relocations.
- Install new storm sewer as shown in the plans. Install temporary storm sewer connections as needed to maintain drainage. Complete storm sewer crossings at STA 836+75'SB' and STA 838+25'SB' when temporary asphaltic surface is available.
- Construct the multi-use path on the east side of USH 51 from the Babcock Park boat launch to STA 853+25'NB'.

- Construct sidewalk from Burma Rd to Yahara Dr for pedestrian accommodations in subsequent stages.
- Begin construction on the new retaining walls, R-13-379, R-13-381, R-13-382, R-13-383, R-13-384, and R-13-385. Backfill R-13-382 to the top of wall elevation to allow time for settlement of materials before finishing in Stage 6. The backfill must be allowed to settle for 6 months before placing the concrete coping, anchor slab, and parapet on top of the wall which will occur in Stage 6.
- Begin and complete construction of new retaining wall, R-13-380.
- Complete concrete pavement from STA 852+75'NB' to STA 858+60'NB' for traffic in Stage 3.

Stage 3 (Stage 3 construction is the same as Stage 2 with the exception of the areas where USH 51 is now open to traffic from Exchange Street to Burma Drive):

- Stage 3 construction includes the following locations as shown on the plans:
- NB USH 51 from STA 836+35'NB' to STA 849+10'NB'
- NB USH 51 from STA 865+88'NB' to STA 894+44'NB'
- East Burma Rd, south side of Farwell Street, north side of Dale Curtain Drive, and north side of Larson Beach Road.
- Complete removals as shown on the plans.
- Install new storm sewer as shown in the plans. Install temporary storm sewer connections as needed.
- Complete construction of the new Yahara River bridge, B-13-0907.
- Complete construction of the new retaining walls except R-13-382.
- Install temporary pavement for subsequent stages as shown on the plans.

Stage 4A:

- Stage 4A construction includes the following locations as shown on the plans:
- SB USH 51 from STA 836+62'SB' to STA 848+50'SB'
- SB USH 51 from STA 865+70'SB' to STA 894+47'SB'
- Northside of Bible Camp Rd, southside of West Burma Rd, and Severson St.
- Complete removals as shown on the plans.
- Install new storm sewer as shown on the plans.

Stage 4B:

- Stage 4B construction includes the following locations as shown on the plans:
- SB USH 51 from STA 836+62'SB' to STA 848+50'SB'
- SB USH 51 from STA 865+70'SB' to STA 894+47'SB'
- Southside of Bible Camp Rd, northside of West Burma Rd, and Dale Rd.
- Complete removals as shown on the plans.
- Install new storm sewer as shown on the plans.

Stage 4C:

- Stage 4C construction includes the following locations as shown on the plans:
- SB USH 51 from STA 836+62'SB' to STA 849+05'SB'
- SB USH 51 from STA 865+70'SB' to STA 894+47'SB'
- West Larson Beach Rd
- Complete removals as shown on the plans.
- Install new storm sewer as shown in the plans.

Stage 5 – Winter shutdown

Stage 6:

- Stage 6 construction includes the following locations as shown on the plans:
- Complete concrete pavement from STA 856+45'SB' to STA 859+60'SB'.
- USH 51 and side road medians
- Complete retaining wall, R-13-382. Construct the concrete coping, anchor slab, and parapet on top of the wall and adjacent sidewalk.
- Complete polymer overlay on structures B-13-907 & B-13-899.
- Remove temporary pavement and crossovers.

Madison Metropolitan Sewerage District (MMSD) Sanitary Sewer Work Sequence

Construct MH09-108A and the Doghouse Manhole 09-106A prior to November 21, 2026. Work consists of the structure completion of MH09-108A for the new sewers to be cored and installed into the new structures. The Doghouse Manhole will not include all the required final benching or connections until later. Lining of the manholes and final adjustments to the castings may be completed later than this milestone.

Install the MMSD interceptor between MH09-108A and MH09-106A with the intermediate structures prior to December 19, 2026. Work consists of the complete interceptor construction and structure installation.

The manholes may be lined at a later time but shall be a complete watertight system prior to this milestone.

Completion of all work associated with the MMSD interceptor and structure construction shall be completed by February 26, 2027. Work includes the system functioning appropriately and existing manholes and sanitary sewers abandoned and removed per the contract documents. Televising and lining manholes between MH09-108A and MH09-106A as required.

MMSD manholes between MH09-101 and MH09-106 will be completed in accordance with the roadway work with WisDOT and scheduled accordingly as necessary

Winter Suspension of Work and Maintenance (2027-2028)

Winter shutdown shall begin at the end of Stage 4. Prior to suspending work for the winter in 2027, the traffic control shall be in a condition as shown in the Winter Shutdown stage in the plans, or as approved by the engineer. Do not resume work until April 1, 2028, unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned recommencement of work in 2028. Upon approval the engineer will issue the notice to proceed within 10 days of the approved start date.

Storage of any equipment, construction materials, or traffic control devices during winter shutdown shall be located outside of the existing clear zone.

Re-install or adjust any traffic control devices that may be damaged, removed, or shifted as part of normal winter maintenance operations. Clean and maintain traffic control devices as necessary or as directed as a result of winter maintenance operations.

Anticipated locations of traffic control devices are shown in the plans. Review the work site with the engineer for locations where additional areas may be available to maximize lane and shoulder widths over winter months to aid in winter maintenance operations and to maximize snow storage area. Adjust traffic control devices in these areas.

Fish Spawning

There shall be no instream disturbance of Yahara River at Station 855+00'NB' to 856+50'NB' as a result of construction activity under or for this contract, from March 1 to June 15 both dates inclusive, in order to avoid adverse impacts upon the spawning of fish species.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR.

Protection of Endangered Bats

Federally protected bats have the potential to inhabit the project limits because they roost in trees, bridges, culverts, and other structures. Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work, and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

Ensure all operators, employees, and subcontractors working in areas of known or presumed bat habitat are aware of environmental commitments and avoidance and minimization measures (AMMs) to protect both bats and their habitat.

Direct temporary lighting, if used, away from wooded areas during the bat active season April 15 to October 31, both dates inclusive.

Tree Clearing (by Others)

The department has contracted with others and will perform the following operations after October 31 and prior to April 15:

- Cutting down and removing trees around the Stage 1A and 1B work areas.

contractor means and methods to remove additional trees will not be allowed. If it is determined that additional trees with a 3-inch or greater diameter at breast height (dbh) need to be removed beyond contractor means and methods, notify the engineer to coordinate with the WisDOT REC to determine if consultation with United States Fish and Wildlife Service (USFWS) is required. The contractor must be aware that the WisDOT REC and/or USFWS may not permit modifications.

Tree Clearing (by contractor)

To avoid adverse impacts upon protected bats, no tree clearing is allowed between April 15 and October 31, both dates inclusive. If the required tree clearing is not completed by April 14, the department will suspend all tree clearing and associated work directly impacted by clearing.

Tree clearing is limited to that which is specified in the plans. contractor means and methods to remove additional trees will not be allowed. If it is determined that additional trees with a 3-inch or greater diameter at breast height (dbh) need to be removed beyond contractor means and methods, notify the engineer to coordinate with the WisDOT REC to determine if consultation with United States Fish and Wildlife Service (USFWS) is required. The contractor must be aware that the WisDOT REC and/or USFWS may not permit modifications.

Due to potential for erosion, do not perform grubbing operations at the time of tree clearing unless grading activities will commence in those areas immediately following the tree clearing, or as otherwise approved by the engineer. Provide information for the grubbing and grading activities, including the schedule of operations, in the Erosion Control Implementation Plan (ECIP).

Submit a schedule and description of clearing operations with the ECIP 14 days prior to any clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of clearing operations, and list those additional measures in the ECIP.

Migratory Birds

Swallow or other migratory bird nests have been observed on the following structures; however, deterrent is not needed because (1) construction activities that may affect the underside or interior of structure(s) will not occur during the migratory bird nesting season, or (2) it has been determined that anticipated construction activities on the structure will not directly impact active nests.

If it is later determined during construction that the nests will be impacted the, implement avoidance/deterrent measures when feasible, as directed by the engineer. Measures may include removal of unoccupied or partially constructed nests by scraping or pressure washing. The engineer will determine if the avoidance/deterrent measures cannot be reasonably implemented.

The nesting season for swallows and other birds is from April 15 to August 31. All active nests (when eggs or young are present) of migratory birds are protected from purposeful take under the federal Migratory Bird Treaty Act. Prior to any activity that may result in active nest take, the engineer will contact the WisDOT region environmental coordinator to complete coordination with the U.S. Fish and Wildlife Service (USFWS). The engineer will complete any required follow up notification to USFWS for FAST Act compliance.

- B-13-385

4. Lane Rental Fee Assessment.

General

The contract designates some lane closures to perform the work as shown on the plans. The contractor will not incur a Lane Rental Fee Assessment for closing lanes during the allowable lane closure times. The contractor will incur a Lane Rental Fee Assessment for each lane closure outside of the allowable lane closure times. If a lane is obstructed at any time due to contractor operations, it is considered a closure. The purpose of lane rental is to enforce compliance of lane restrictions and discourage unnecessary closures.

The allowable lane closure times are shown in the Traffic article.

Submit the dates of the proposed lane, ramp, and roadway restrictions to the engineer as part of the progress schedule.

Coordinate lane, ramp, and roadway closures with any concurrent operations on adjacent roadways within 3 miles of the project. If other projects are in the vicinity of this project, coordinate lane closures to run concurrent with lane closures on adjacent projects when possible. When lane closures on adjacent projects extend into the limits of this project, Lane Rental Fee Assessments will only occur if the closure facilitates work under this contract.

Lane Rental Fee Assessment

The Lane Rental Fee Assessment incurred for each lane closure and each full closure of a roadway, per direction of travel, is as follows:

- USH 51 Nighttime Full Closure- \$3,000 per lane, per direction of travel, per hour broken into 15-minute increments
- USH 51 Off-Peak Lane Closure Under Flagging Operations- \$3,000 per lane, per direction of travel, per hour broken into 15-minute increments

The Lane Rental Fee Assessment represents a portion of the cost of the interference and inconvenience to the road users for each closure. All lane and roadway event increments 15 minutes and less will be assessed as a 15-minute increment.

The engineer, or designated representative, will be the sole authority in determining time period length for the Lane Rental Fee Assessment.

Lane Rental Fee Assessments will not be assessed for closures due to crashes, accidents or emergencies not initiated by the contractor.

The department will assess Lane Rental Fee Assessment by the dollar under the administrative item Failing to Open Road to Traffic. The total dollar amount of Lane Rental Fee Assessment will be computed by multiplying the Lane Rental Assessment Rate by the number of 15-minute increments of each lane closure event as described above.

Lane Rental Fee Assessment will be in effect from the time of the Notice to Proceed until the department issues final acceptance. If interim completion time or contract time expires before the completion of specified work in the contract, additional liquidated damages will be assessed as specified in standard spec 108.11 or as specified within this contract.

stp-108-070 (20161130)

5. Traffic.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control as shown on the plans. Submit the plan 14 days prior to the preconstruction conference, or if after the preconstruction conference, 14 days prior to the intended use of the revised traffic control. A request does not constitute approval.

Notify the engineer in writing if there are any changes in the schedule, early completions, or cancellations of scheduled work. Coordinate all arrangements for handling traffic with the engineer before work is started on a new stage of construction that will change the traffic pattern existing at the time.

Do not park or store equipment, vehicles or material not being used during actual performance of the work within the right-of-way or unless otherwise approved by the engineer.

Maintain a minimum 10' wide gravel access for emergency vehicles at all times within the project limits.

Maintain access to the Babcock lock and dam at all times for Dane County Park staff to access.

Maintain access to the Dane County Sheriff's boat dock within Babcock Park at all times.

Place drums and other temporary traffic control devices on the outer edge of the shoulder when not in use.

Equip all vehicles and equipment which are operated on the roadway pavement or shoulders with a flashing yellow light that operates when the vehicle is operating at speeds less than the speed of normal traffic.

Provide and maintain at least one 16' wide access to businesses along the project at all times. Maintain local vehicular access to driveways and side streets at all times during the construction period. If access needs to be eliminated due to construction operations, notify the Engineer and property owner or occupant in writing of the property at least 72 hours prior to closing a driveway access. Schedule and conduct construction operations in such a manner so as not to deny access to driveways for a period longer than three calendar days.

Contact and coordinate with WisDOT for signal timing and phasing setup for temporary signals prior to the start of a traffic change or stage. Contact and coordinate with WisDOT for signal timing and phasing setup prior to opening permanent traffic signal. WisDOT contact is Graham Heitz at (608) 246-5362.

Winter Maintenance

Snow may be plowed from the traveled roadway into the work zone by the maintaining authority. The contractor is responsible for any snow removal from the work zone that may be required to continue work operations.

The contractor is responsible for plowing any areas which may need to be cleared of snow or ice to accommodate changes in traffic control and to facilitate construction staging during winter months. The local maintaining authority will not provide snow plowing operations in areas outside of the active traveled lanes.

Re-install or adjust any traffic control devices that may be damaged, removed, or shifted as part of normal winter maintenance operations. Clean and maintain traffic control devices as necessary or directed as a result of winter maintenance operations.

Anticipated locations of traffic control devices are shown in the plans. Review the work zone with the engineer for locations where additional area may be available to maximize lane and shoulder widths over winter months to aid in winter maintenance operations and to maximize snow storage area. Adjust traffic control devices in these areas.

The contractor is responsible for snow and ice removal from any temporary pedestrian accommodation placed within the project.

Snow plowing, ice removal, including any road salt which may be required, maintenance, and cleaning of traffic control devices, and other winter maintenance activities are incidental to other items of work under this contract.

The contractor is expected to complete surveillance following all winter storms to ensure all traffic control devices are maintained and installed properly.

Traffic Staging

Stage 1A:

- Coordinate traffic control staging and devices with project 5845-16-84.
- Maintain one lane of traffic in each direction on USH 51 as shown in the plans.
- Starting at the Exchange St Roundabout shift both directions of traffic to the east side of USH 51. At STA 840+00'NB' shift traffic to the west side of USH 51. At STA 861+00'NB', shift northbound traffic to the east side in the outside lane.
- Merge southbound USH 51 traffic into the outside lane north of the Larson Beach Rd intersection.
- Maintain side road access. Include dedicated left turns lanes for Farwell/Severson St, Dale/Dale Curtain Rd, and Larson Beach Rd. Temporary signals installed at Farwell St and Larson Beach Rd intersections.
- Maintain pedestrian accommodations at all times on existing sidewalks and crossings as shown in the plans.

Stage 1B:

- Coordinate traffic control staging and devices with project 5845-16-84.
- Maintain one lane of traffic in each direction on USH 51 as shown in the plans.
- Starting at the Exchange St Roundabout shift both directions of traffic to the east side of USH 51. At STA 840+00'NB' shift traffic to the west side of USH 51. At STA 858+75'NB' shift both directions of traffic to the east side of USH 51. Open northbound USH 51 back to two lanes north of the Larson Beach Road intersection.
- Merge southbound USH 51 traffic into the inside lane north of the Larson Beach Rd intersection. Shift southbound USH 51 traffic to the temporary paved median at Farwell St. At STA 871+50'NB' shift southbound USH 51 traffic into the existing inside northbound lane.
- Maintain side road access. Include dedicated left turns lanes for Farwell/Severson St, Dale/Dale Curtain Rd, and Larson Beach Rd. Temporary signals installed at Farwell St and Larson Beach Rd intersections.
- Close the sidewalk on the south side of Farwell St and detour pedestrians to sidewalk on the north side. Close the sidewalk on the north side of Larson Beach Rd and detour pedestrians to the sidewalk on the south side. Maintain pedestrian accommodations at all times.

Stage 2:

- Close USH 51 to through traffic from Exchange Street to 300' south of Burma Rd. (STA 842+25'NB' to 865+80'NB'). Coordinate with Project ID 5845-16-74 to set up the detour route and add supplemental signing as shown in the plans.
- Close the east side of USH 51. Move one lane of southbound and northbound USH 51 traffic to the west side of USH 51.

- Maintain side road access to Bible Camp Rd, west Burma Rd, Farwell/Severson St, Dale/Dale Curtain Rd, and Larson Beach Rd. Include dedicated left turns lanes for SB Farwell/Severson St, Dale Rd, and Larson Beach Rd.
- Close access to Yahara Dr.
- Close east Burma Road for up to 5 consecutive calendar days to complete storm sewer installations. Maintain access to the business in the at STA 868+00'NB' RT by keeping the driveway open at STA 867+25'NB' RT while east Burma Road is closed. Reopen east Burma Road on base aggregate dense until final concrete paving can be completed. Close east Burma Road for up to 10 consecutive calendar days to complete paving operations while maintaining access to the driveway at STA 867+25'NB'. Coordinate the closure of east Burma Road with the Village of McFarland and the business at STA 868+00'NB' RT.
- Close Farwell Street for up to 4 consecutive calendar days to complete watermain and sanitary sewer relocations, and storm sewer as shown in the plans. Closure of Farwell St cannot coincide with the closure of Burma Rd. Shift Farwell St traffic to the north side of the road for Stage 2 - interim stage. Shift Farwell traffic to the south side of the south side. In Stage 2B – interim provide a right turn bypass lane for Farwell traffic. Maintain access to the business at STA 872+00'NB' RT by keeping the driveway open at STA 872+25'NB' RT while Farwell Street is closed. Coordinate the Farwell Street closure with the Village of McFarland.
- Shift Dale Curtain Rd traffic to the south side of the road on temporary pavement in phase 1. Once the storm sewer installations and temporary pavement is complete, shift traffic to the north side of the road as shown in phase 2. Then shift traffic back to the south side of the road on temporary pavement.
- Close the sidewalk on the east side of USH 51 from Burma Rd to Farwell St and detour pedestrians to the west side of USH 51 on the new sidewalk. Close the sidewalk on the north side of Farwell St and detour pedestrians to the south side onto the temporary sidewalk. Close the sidewalk on the south side of Larson Beach Rd and detour pedestrians to the north side of the road onto the temporary sidewalk. Maintain pedestrian accommodations at all times.
- Shift east Larson Beach Rd to the north onto the temporary pavement.

Stage 3:

- Open USH 51 over the new Yahara River bridge. The overall detour installed for Project ID 5845-16-74 will remain in place. Remove supplemental detour signing installed for Stage 2.
- From Exchange Street to STA 851+00'NB' maintain one lane in each direction for USH 51 on the west side. At STA 851+00'NB' to STA 862+40'NB' shift traffic to the east side of USH 51 over the new bridge. At STA 862+40'NB' shift traffic to the west side of USH 51. North of STA 865+75'NB', traffic patterns on USH 51 will remain the same as Stage 2.
- Open access to Yahara Drive.
- Maintain side road access to Bible Camp Rd, Burma Rd, Farwell/Severson St, Dale/Dale Curtain Rd, and Larson Beach Rd. Include dedicated left turns lanes for SB Farwell/Severson St, Dale Rd, and Larson Beach Rd.
- Shift Farwell St traffic to the north onto the new pavement. Shift Dale Curtain Rd to the middle of the road onto the new pavement. Shift east Larson Beach Rd to the south onto the new pavement.
- Route pedestrian traffic onto the new multi-use path on the east side of USH 51 from the Babcock Park boat launch to the Yahara River Bridge, and then over the bridge on the east side as shown in the plans. Route pedestrian traffic onto the new sidewalk on the east side of USH 51 from Yahara Dr. to Burma Road. Route the pedestrians onto the new sidewalk on the west side of USH 51 from Burma Road to Severson Rd. Close the sidewalk on the south side of Farwell St and detour pedestrians to the north side onto the new sidewalk. Close the sidewalk on the north side of Larson Beach Rd and detour pedestrians to the south side on the new sidewalk. Maintain pedestrian accommodations at all times.

Stage 4A:

- Close the west side of USH 51. Move one lane of southbound and northbound USH 51 traffic to the east side of USH 51.
- Maintain side road access to Bible Camp Rd, Yahara Dr, Burma Rd, Severson Rd, Farwell St, Dale/Dale Curtain Rd, and Larson Beach Rd. Include dedicated left turns lanes for SB Farwell/Severson St, Dale Rd, and Larson Beach Rd.
- Shift Bible Camp Rd traffic to the south onto the temporary pavement.
- Shift west Burma Rd traffic onto the temporary pavement.
- Close eastbound Severson Rd, but keep westbound open to traffic on the south side.
- Route pedestrian traffic onto the new multi-use path on the east side of USH 51 from the Babcock Park boat launch to the Yahara River Bridge, and then over the bridge on the east side as shown in the plans. Route pedestrian traffic onto the new sidewalk on the east side of USH 51 from Yahara Dr. to Larson Beach Road. Open sidewalks on both sides of Farwell St. Open sidewalks on both sides of Larson Beach Rd and detour pedestrians onto temporary crossings of Larson Beach Road and USH 51 as shown in the plans. Maintain pedestrian accommodations at all times.

Stage 4B:

- Maintain USH 51 traffic as in Stage 4A.
- Maintain side road access to Bible Camp Rd, Yahara Dr, Burma Rd, Farwell/ Severson St, Dale Curtain Rd, and Larson Beach Rd. Include dedicated left turns lanes for SB Farwell/Severson Rd, Dale Rd, and Larson Beach Rd.
- Shift Bible Camp Rd traffic to the north onto the new pavement.
- Shift eastbound Burma Rd traffic south in the prestage. Shift both directions of Burma Rd traffic south onto the temporary pavement.
- Shift Farwell St and Severson Rd traffic to the north side.
- Close Dale Rd.
- Maintain pedestrian accommodations as shown in Stage 4A and as shown on the plans.

Stage 4C:

- Maintain the one lane of traffic in each direction in the outside lanes from Exchange Street to STA 863+00'NB'. North of 863+00'NB', maintain USH 51 traffic as in Stage 4B.
- Maintain side road access to Bible Camp Rd, Yahara Dr, Burma Rd, Farwell/ Severson St, Dale Rd, Dale Curtain Rd, and east Larson Beach Rd. Include dedicated left turns lanes for SB Farwell/Severson St, Dale Rd, and Larson Beach Rd.
- Shift Bible Camp Rd traffic to the middle onto the new pavement.
- Shift west Burma Rd traffic to the middle onto new pavement.
- Shift Severson Rd traffic to the middle onto new pavement.
- Open Dale Road to both directions and shift to the middle onto new pavement.
- Close west Larson Beach Rd.
- Maintain pedestrian accommodations as shown in Stage 4A and as shown on the plans.

Stage 5 (Winter shutdown):

- Open USH 51 to two lanes of traffic in each direction.
- Maintain side road access to Bible Camp Rd, Yahara Dr, Burma Rd, Farwell/ Severson St, Dale Rd, Dale Curtain Rd, and east Larson Beach Rd. Include dedicated left turns lanes for SB Farwell/Severson St, Dale Rd, and Larson Beach Rd.
- Maintain temporary traffic signals at Farwell Street.
- Open Larson Beach Rd intersection as a roundabout. Lights must be installed and operational before switching to roundabout control.
- Open all pedestrian facilities.

Stage 6

- Maintain one lane of USH 51 traffic in each direction and shift each lane to the outside with a shift of southbound traffic to the northbound lanes of USH 51 from STA 852+00'NB' to STA 864+25'NB'.
- Maintain side road access to Bible Camp Rd, Yahara Dr, Burma Rd, Farwell/ Severson St, Dale Rd, Dale Curtain Rd, and east Larson Beach Rd. Include dedicated left turns lanes for SB Farwell/Severson St, Dale Rd, and Larson Beach Rd.
- Close the southbound Siggelkow ramp for up to 5 consecutive calendar days to complete polymer overlay of B-13-899.
- Maintain temporary traffic signals at Farwell Street.
- Maintain existing pedestrian accommodations.

Roadway Closures

Request approval from the engineer for all closures following the Wisconsin Lane Closure System table below. A request does not constitute approval. Failure to obtain approval or reopen closed lanes at the required time will be subject to lane rental charges specified below.

No other full closures are allowed unless approved by the engineer.

Flagging Operations

Flagging operations on USH 51 are not permitted during peak hours as defined below in this article.

Peak Hours:

6:00 AM to 9:00 AM Monday through Friday

2:00 PM to 7:00 PM Monday through Friday

Flagging operations during the off-peak daytime period are limited to material and equipment deliveries only. Maximum distance between flaggers during the daytime off-peak period is 1/2 mile. During the times when flagging is allowed, a minimum lane width of 12 feet shall be maintained at all times.

Cease or alter their work operations if traffic delays become longer than 15 minutes.

Wisconsin Lane Closure System Advance Notification

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16 feet)	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥ 16 feet)	MINIMUM NOTIFICATION
Shoulder Closures	3 calendar days
Lane closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.

stp-wilcs (20260101)

6. Holiday and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 51 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday and special event periods:

- From noon Friday, September 4, 2026 to 6:00 AM Tuesday, September 8, 2026, for Labor Day;
- From noon Wednesday, November 25, 2026 to 6:00 AM Monday, November 30, 2026 for Thanksgiving;
- From noon Wednesday, December 24, 2026 to 6:00 AM Monday, December 29, 2026 for Christmas;
- From noon Wednesday, December 31, 2026 to 6:00 AM Monday, January 5, 2027 for New Years;
- From noon Friday, March 26, 2027 to 6:00 AM Tuesday, March 30, 2027, for Easter;
- From noon Friday, May 28, 2027 to 6:00 AM Tuesday, June 1, 2027, for Memorial Day;
- From noon Friday, July 2, 2027 to 6:00 AM Tuesday, July 6, 2027, for Independence Day;
- From noon Friday, September 3, 2027 to 6:00 AM Tuesday, September 7, 2027, for Labor Day;
- From noon Wednesday, November 24, 2027 to 6:00 AM Monday, November 29, 2027 for Thanksgiving.
- From noon Friday, May 26, 2028 to 6:00 AM Tuesday, May 30, 2028, for Memorial Day;
- From noon Friday, June 30, 2028 to 6:00 AM Wednesday, July 5, 2028, for Independence Day;
- From noon Friday, September 1, 2028 to 6:00 AM Tuesday, September 5, 2028, for Labor Day;

stp-107-005 (20210113)

7. Utilities.

This contract comes under the provision of Administrative Rule Trans 220.

All utility coordination was completed under ID 5845-16-76 including for tied ID's 5845-16-78, 5845-16-87, 5845-16-89 and 5845-16-90.

The utility work plan includes additional detailed information regarding the location of known discontinued, relocated, or removed utility facilities. These can be requested from the department during the bid preparation process, or from the project engineer after the contract has been awarded and executed.

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the prior work will be completed and the site will be available to the utility. Follow-up with a confirmation notice to the engineer and the utility not less than 3 working days before the site will be ready for the utility to begin its work.

stp-107-065 (20240703)

These plans show existing utility facilities at the time of the original survey in 2022.

Any utility facility locations (stations, offsets, elevations, depths) listed in this article are approximate.

Alliant Energy (Electric)

Existing:

Alliant Energy has overhead electrical lines that run along the east side of USH 51 from Exchange Street to Larson Beach Road. There is overhead crossing of US 51 at Station 842+25'NB', 858+75'NB', 864+25'NB', 871+50'NB', and 880+25'NB'. There are overhead lines on the northside of Bible Camp Road, southside of Yahara Drive, northside of Dale Curtain Drive and southside of Dale Road. There is underground electric that runs along the southside of Farwell Street.

Facility Relocations Prior to Construction:

Alliant will relocate their existing overhead electrical lines underground throughout the project limits as described below:

- Alliant will install new underground electrical starting at Station 835+40'NB' RT running along the existing right-of-way to a new switchgear box at Station 842+25'NB' RT at a depth of 4-feet.
- From the switchgear box at Station 842+25'NB' RT new underground electrical will cross underneath US 51 at a depth of 6-feet along the existing right-of-way on the northside of Bible Camp Road connecting to their pole outside the project limits. The existing light pole in the NW quadrant of Bible Camp Road will remain in place.
- From the switchgear box at Station 842+25'NB' RT new underground electrical will continue north along the existing and proposed right-of-way at a depth of 4-feet. At Station 852+75'NB' RT the new underground will transition outside of the right-of-way to 100' RT at Station 853+50'NB' to avoid conflicts with the proposed sanitary sewer.
- From Station 853+50'NB' 100' RT new underground electrical will cross underneath the Yahara River to a new switchgear box at Station 858+55'NB' 75' RT.
- The existing light in the SE quadrant of Yahara Dr will be relocated east to Station 858+55'NB' 70' RT.
- From the new switchgear box at Station 858+55'NB' 75' RT new underground electrical will cross Yahara Drive at Station 60+60'YA' at a deep of 4-feet to Station 859+35'NB' 30' RT where it continues north parallel to US 51 behind the existing retaining wall at a depth of 4'.
- At Station 866+75'NB' and new switchgear will be placed at 45' RT and new underground electrical will cross underneath US 51 from 45' RT to 55' LT at a depth of 7' to avoid conflicts with the proposed storm sewer.
- At Station 866+75'NB' 55' LT new underground electrical splits to run north and south. Going south, conduit will run parallel to US 51 at approximately 60' LT at a depth of 4-feet. At Station 858+85'NB' 60' LT conduit will cross the parking lot road and head south behind the parking lot approximately 6' off the edge of pavement to a new transformer located at approximately Station 856+10'NB' 120' RT.
- At Station 861+85'NB' 50' LT running north, new underground electrical will run parallel 2' outside of the proposed right-of-way at a depth of 4-feet to Station 868+65'NB' 90' LT where it continues down Burma Road outside of the project limits.
- At Station 866+75'NB' new underground electrical will cross underneath US 51 at a depth of 6-feet and continue north 2-feet off the existing right-of-way. It crosses Burma Rd at Station 72+60'BR' and continues north to Farwell St and turns east along that road within an existing utility easement 7-feet outside of the existing right-of-way.
- At Station 81+30'FWE' new underground electrical crosses underneath Farwell St at a depth of 10-feet to get underneath the existing 72" culvert. It continues north along US 51 2-feet off of the proposed and existing right-of-way until it connects back into the existing overhead lines at Station 879+25'NB' 100' RT that are not in conflict.
- At Station 878+25'NB' new underground electrical crosses underneath US 51 at a depth of 9-feet and continues west outside of the project limits.

Alliant Energy (Gas)

Existing:

Alliant Energy has unground gas that runs along the west side of USH 51 from Station 860+00'NB' to 881+00'NB'. There is underground crossing of US 51 at Station 868+75'NB', 873+50'NB' and 881+00'NB'. There is underground gas that runs along the southside of Yahara Drive, southside of Burma Road, southside of Farwell Street, and northside of Dale Road/Dale Curtain Drive.

Facility Relocations Prior to Construction:

- Starting at Station 862+50'SB' 35' LT Alliant will relocate existing underground gas lines to 2' outside of the proposed right-of-way at a depth of 4-feet continuing north parallel to the proposed right-of-way. The new gas line will cross Burma Rd at Station 70+78'BR' at a depth of 5-feet. North of Burma Rd, the new gas line continues north running parallel to the proposed right-of-way 3' on the inside at a depth of 4-feet. The new gas line will cross Severson St at Station 81+28'SS' at a depth of 10-feet to clear new storm sewer installations and the existing 72" culvert pipe. North of Severson St, the new gas line continues north running parallel to the proposed and existing right-of-way 3' on the inside at a depth of 4-feet. The new gas line will cross Dale Rd at Station 91+70'DA' at a depth of 6-feet. On the northside of Dale Rd the new gas line will continue into an existing gas line that runs west along Dale Rd outside of the project limits.
- At Station 866+75'NB' new underground gas line will cross underneath US 51 at a depth of 6-feet and continue north 2-feet off the existing right-of-way. At Burma Rd the new gas line continues east 1-foot off of the existing right-of-way outside of the project limit.
- At Station 875+25'NB' new underground gas line will cross underneath US 51 at a depth of 10-feet to clear new storm sewer installations. The new gas line continues south and east along Farwell St 1' off the proposed and existing right-of-way and connects into existing gas main outside of the project limits.
- At Station 880+30'NB' new underground gas line will cross underneath US 51 at a depth of 10-feet to clear new storm sewer installations. The line will continue east at 35' RT parallel to Dale Curtain Dr where it crosses Dale Curtain Dr at Station 90+95'DC' outside the project limits where it connects into an existing gas line.

Facility Relocations During Construction:

Notify Alliant Energy as described above, and they will adjust existing gas values to final grades during construction. Allow 1 working day for this work.

Dunn Sanitary District #3 (Sanitary)

Existing:

Dunn Sanitary District #3 has underground sanitary that runs along the eastside of USH 51 from Station 851+75'NB' to 857+75'NB' where it ties into a MMSD manhole. There is a sanitary crossing of US 51 at Station 851+75'NB' to a manhole within Babcock Park at Station 851+85'SB' 56' LT. The sanitary line continues south through Babcock Park outside of the project limits.

Facility Relocations During Construction:

As part of the project, construct, relocate, discontinue, and remove sanitary sewer facilities as shown in the plans and in the bid items for this project 5845-16-89.

Frontier (Communication)

Existing:

Frontier has underground communication lines that run along the westside of USH 51 from Exchange Street to Burma Road and from Dale Road to Larson Beach Road. There is underground crossings at Station 858+75'NB', 866+75'NB', 877+75'NB', and 885+50'NB'. There is underground lines that run along the southside of Bible Camp Road, southside of Yahara Road, southside of Burma Road, and southside of Dale Road.

Facility Relocations Prior to Construction:

- From Station 840+94'SB' to Station 835+79'SB' Frontier will place new copper cable & continue fiber cable within the right-of-way limits along USH 51. Both placements will be buried and 3' from right-of-way along US 51 from proposed pedestal at Station 840+94'SB' towards south along USH 51 at depth 48" up to existing handhole at Station 835+89'SB', then continue copper cable only in same direction at depth 36" up to existing pedestal at Station 835+79'SB'. Fiber will be spliced at existing handhole at Station 835+89'SB' and copper will be spliced at proposed pedestal at Station 840+94'SB' and at existing pedestal at Station 835+79'SB'.

- Station 73+19'BR' TO Station 840+94'SB': Place copper cable & continue fiber cable within right-of-way limits along US 51. Both placements will be buried and 3' from right-of-way along US 51 from proposed handhole/existing pedestal at Station 73+19'BR' towards southwest at depth 48" up to bore pit at Station 858+00'NB', then continue in same direction at depth 26' up to Station 855+00'NB', then continue in same direction at depth 9' up to proposed handhole at Station 854+00'NB', then continue in same direction at depth 10' up to bore pit at Station 853+22'NB', then continue in same direction at depth 48" up to proposed handhole at Station 851+93'NB', then continue towards west across US 51 at depth 9' up to proposed handhole at Station 851+97'SB', then continue towards southwest along US 51 at depth 36" up to proposed pedestal at Station 851+92'SB', then continue in same direction at depth 48" up to proposed pedestal at Station 840+94'SB'. Copper cable will be spliced at existing pedestal at Station 73+19'BR' and at proposed pedestal at Station 840+94'SB'. (Cross the sanitary sewer at a minimum 26' extra depth, additional 52' is to maintain the bore depth from at Station 854+00'NB' to at Station 858+00'NB'). (Cross the storm sewer at a minimum 10' extra depth, additional 20' is to maintain the bore depth from at Station 854+00'NB' to at Station 857+68'NB'). (Cross the storm sewer at a minimum 6' extra depth, additional 12' is to maintain the bore depth from at Station 851+93'NB' to at Station 851+97'SB').
- Station 73+19'BR' TO Station 69+30'BR': Place copper cable within right-of-way limits along Burma Rd. Placement will be buried and 3' from right-of-way along Burma Rd from existing pedestal at Station 73+19'BR' towards north across Burma Rd at depth up to bore pit 48" up to bore pit at Station 73+19'BR', then continue towards west along Burma Rd at Station 835+79'SB' 48" depth up to proposed handhole at Station 869+93'NB', then continue in same direction across US 51 at depth 10' up to proposed handhole at Station 869+96'SB', then continue towards southwest along US 51 at depth 48" up to bore pit at Station 71+19'BR', then continue towards west along Burma Rd at same depth up to existing pedestal at Station 69+30'BR'. Splicing will be done at existing pedestal at Station 73+19'BR' and at existing pedestal at Station 69+30'BR'. (Cross the storm sewer at minimum 10' extra depth, additional 20' is to maintain the bore depth from at Station 869+96'SB' to at Station 869+93'NB').
- Existing handhole (approx. 255' towards east from Station 877+77'NB') TO Station 73+19'BR': Place fiber cable within right-of-way limits along US 51. Placement will be buried and 3' from right-of-way along US 51 from existing handhole (approx. 255' away towards east from Station 877+77'NB') at depth 48" towards west up to proposed handhole (approx. 83' away towards east from Station 877+77'NB'), then continue in same direction at depth 48" up to existing pedestal (approx. 78' away towards east from Station 877+77'NB'), then continue in same direction at depth 48" up to proposed handhole at Station 877+77'NB', then move towards southwest along US 51 at same depth up to proposed handhole at Station 874+78'NB', then continue towards east direction along Farewell St at same depth up to proposed bore pit at Station 81+42'FW', then continue towards south across Farewell St up to proposed handhole at Station 81+42'FWE', Then continue west direction along Farewell St up to proposed bore pit at Station 873+34NB then continue towards southwest up to proposed handhole at Station 870+18'NB', then continue towards southeast up to bore pit at Station 73+19'BR', then continue towards south across Burma Rd up to proposed handhole at Station 73+19'BR'.
- Station 878+97'SB' to existing pedestal (approx. 78' towards east from Station 877+77'NB'): Place copper cable within right-of-way limits across US 51. Placement will be buried and 3' from right-of-way across US 51 from proposed pedestal at Station 878+97'SB' at depth 36" towards south up to bore pit at Station 878+80'SB', then continue towards southeast across US 51 at depth 72" up to proposed handhole at Station 877+77'NB', then continue towards east at depth 48" up to existing pedestal 78' away towards east from Station 877+77'NB'. Splicing will be done on the proposed pedestal at Station 878+97'SB' on the existing pedestal 78' away towards east from Station 877+77'NB'. (Cross the storm sewer at a minimum 10' extra depth, additional 20' is to maintain the bore depth from at Station 878+80'SB' to at Station 877+77'NB').
- Station 100+85'LEB' TO Station 885+42'NB': Place copper cable within right-of-way limits along Larson Beach Rd. Placement will be buried and 3' from right-of-way along Larson Beach Rd from existing pedestal at Station 100+85'LEB' at depth 48" towards southeast up to bore pit at Station 887+39'SB', then continue at depth 9' across US 51 up to existing pedestal at Station 887+39'NB', then continue at depth 48" towards southwest along US 51 up to existing pedestal at Station 885+42'NB'. Splicing will be done at existing pedestal at Station 100+85'LEB' and at existing pedestal at Station 885+42'NB'. (Cross the storm sewer at minimum 9' extra depth, additional 18' is to maintain the bore depth from at Station 887+39'SB' to at Station 887+39'NB').
- Station 890+00'NB' to existing handhole (approx. 255' towards east from Station 877+77'NB'): Place fiber cable within right-of-way limits along US 51. Placement will be buried and 3' from right-of-way along US 51 from proposed handhole at Station 890+00'NB' at depth 48" towards south up to bore pit at Station 889+37'NB', then continue at same depth towards southeast up to bore pit at Station 106+23'LWB', then continue towards south across Larson Beach Rd towards bore pit at Station 106+23'LEB', then continue towards west along Larson Beach Rd up to bore pit at Station 887+65'NB', then continue towards southwest along US 51 up to proposed handhole 83' away towards east from Station 877+77'NB', then continue towards east at same depth up to existing handhole 255' away towards east from Station 877+77'NB'. Splicing will be done at proposed handhole at Station 890+00'NB' and existing handhole 255' away towards east from Station 877+77'NB'.

Facility Relocations During Construction:

Notify Frontier as described above to adjust existing vaults/handholes to final grades during construction. Allow 3 working days for this work.

Kegonsa Sanitary District (Sanitary)

Existing:

Kegonsa Sanitary District has an underground sanitary force main that runs along the east side of USH 51 from Exchange Street to Station 857+75'NB' where it ties into a MMSD manhole.

Facility Relocations During Construction:

As part of the project, construct, relocate, discontinue, and remove sanitary sewer facilities as shown in the plans and in the bid items for this project 5845-16-90.

Madison Metropolitan Sewerage District (Sanitary)

Existing:

MMSD has underground sanitary that runs along the west side of USH 51 from Station 857+75'NB' to Larson Beach Road. There is a crossing of USH 51 at Station 857+75'NB'.

Facility Relocations During Construction:

As part of the project, construct, relocate, discontinue, and remove sanitary sewer facilities as shown in the plans and in the bid items for this project 5845-16-87.

Spectrum (Communication)

Existing:

Spectrum is aerial on Alliant Energy's pole and follow the same location as described above. There are underground communication lines along the southside of Farwell Street.

Facility Relocations Prior to Construction:

Spectrum will be going joint with Alliant Energy (Electrical) throughout the project limits, see relocation description above.

- Spectrum will install new pedestals and vaults at the following locations: 842+20'NB' 60' RT, 853+49'NB' 104' RT, 60+75'YA' 40' RT, 858+90'NB' 95' LT, 862+60'NB' 55' LT, 863+90'NB' 60' LT, 866+78'NB' 61' RT, 869+70'NB' 55' RT, 80+97'FW' 45' RT, and 83+25'FWE' 44' RT.
- Spectrum will install additional conduit from the new pedestal at 869+70'NB' 55' RT going east along Burma Rd 4' on the inside of the existing right-of-way at a minimum depth of 42".
- Spectrum will install additional conduit from the new pedestal at 83+25'FWE' 44' RT going north underneath Farwell St at a depth of 10'.

Facility Relocations During Construction:

Notify Spectrum as described above to adjust existing vaults/handholes to final grades during construction. Allow 3 working days for this work.

TDS (Communication)

Existing:

TDS have underground fiber optic lines that run along the eastside of USH 51 from Bible Camp Road to Larson Beach Road. There are additional lines that run along the westside of USH 51 from Severson Road to Dale Road. There is fiber optic line crossing of USH 51 at Station 842+00'NB', 866+75'NB', 869+75'NB' and 877+75'NB'. There are underground fiber optic lines that run along the northside of Bible Camp Road, southside of Yahara Drive, northside of Burma Road, southside of Farwell Street, southside of Dale Road, and southside of Larson Beach Road.

Facility Relocations Prior to Construction:

- At Larson Beach Rd, TDS will relocate fiber crossing Larson Beach Rd at 104+70'LEB' to a minimum depth of 7' to be under proposed storm sewer.
- South of Dale Curtin Dr, TDS fiber crosses US 51 at Station 877+80'NB'. TDS will relocate this fiber to be a minimum of 9' deep to be under storm sewer. Pedestals on both sides will be moved 2-ft back along right-of-way to be out of proposed sidewalk.
- At Farewell St, TDS crosses Farewell St at 81+25'FWE'. TDS will relocate this fiber to be a minimum of 10' deep.

- South of Farewell, TDS crosses US 51 at 871+75'NB', on east EOC 36" deep, and on west EOC 60" deep. TDS will abandon this fiber, and splice it to go across at the crossing below. The Pedestals on east side will be removed to be out of conflict with proposed sidewalk.
- Just north of Burma Rd, TDS crosses US 51 at 869+90'NB'. TDS will relocate this fiber to Station 869+60'NB' and be a minimum of 9' deep. Pedestals on east side will be removed to be out of proposed sidewalk. TDS will add a handhole next to their existing pedestal at Station 73+25'BR' 30' LT outside of the project limits. On the west side of US 51 at Station 869+60'NB', TDS will place a new handhole at the edge of the right-of-way to be cleared of the new sidewalk on the west side.
- At Burma Rd, TDS crosses Burma Rd at 72+30'BR'. TDS will relocate this fiber to go through an existing duct that crosses Burma Rd at the Rivercrest Dr intersection. From the existing pedestal at this intersection TDS will bore along the southside of Burma Rd to a relocated pedestal at Station 868+25'NB' 37' RT. This pedestal will be moved to the northeast along edge of the right-of-way to be out of conflict with the new sidewalk and possibly turned to a handhole.
- South of Burma Rd, TDS crosses US 51 at Station 866+80'NB', at 43" deep. This is an empty duct and can be removed with construction. From the pedestal at Station 866+80'NB' RT, TDS will bore south to an existing pedestal at Station 864+55'NB' RT at 3' depth to relocate a section which was aerial for when Alliant removes their poles.
- TDS fiber is located up behind the retaining wall 5-feet of the existing right-of-way at 3-ft deep between Burma Rd and Yahara Dr and is out of conflict of the proposed sidewalk, 859+40'NB' to 865+75'NB'.
- At Yahara Dr, TDS crosses Yahara Dr at 60+50'YA'. TDS will relocate to cross Yahara Dr at 60+76'YA' outside of the project limits and place new handholes on both side of Yahara Dr. TDS will tie into existing fiber on the north.
- At the Yahara River bridge, TDS will be going joint with Alliant bored under the Yahara river and ending joint boring around Station 852+40'NB' 30'RT.
- South of the Yahara River bridge, from Station 852+40'NB' 30' RT, TDS will install new fiber going south at a depth of 3-feet, staying 9-feet on the inside of the proposed right-of-way, to the TDS crossing at Bible Camp Rd, Station 842+20'NB', where TDS will tie into existing fiber at the existing pedestal 60' RT.
- At Bible Camp Road, TDS fiber crosses US 51 at Station 842+20'NB', at east edge of concrete 42" deep, center of road 40" deep and west edge of concrete 53" deep. TDS will place a new handhole north of the current pedestal at Station 842+20'NB' 60' RT for fiber slack.

Facility Relocations During Construction:

Notify TDS as described above to adjust existing vaults/handholes to final grades during construction. Allow 3 working days for this work.

Verizon (Communication)

Existing:

Verizon has underground fiber optic lines that run along the westside of US 51 from Exchange Street to Bible Camp Road and from Yahara Drive to Farwell Street. There is underground fiber optic lines that run on the eastside of USH 51 from Bible Camp Road to Yahara Drive. There is underground crossing of USH 51 at Station 842+75'NB', 858+50'NB', and 873+00'NB'. There are underground fiber optic lines that run along the southside of Farwell Street.

Facility Relocations Prior to Construction:

- Verizon will be relocating existing fiber optics lines as part of the USH 51 Roby Road to CTH B/AB project along the existing right-of-way on the west side of USH 51 to an existing handhole at Station 842+75'NB' 52'LT. They will cross underneath Bible Camp Rd at Station 11+75'BC' at a depth of 60".
- Verizon will relocation the existing handhole at Station 842+75'NB' to 57' RT. Starting at this new handhole, Verizon will install new fiber optic lines going north at a depth of 48" and 3' on the inside of the existing and proposed right-of-way till Station 845+25'NB' where they will transition to be 9' off of the existing right-of-way to avoid conflicts with the new force main installation. At Station 849+10'NB' the fiber optic will dive down to 72" to avoid conflicts with the RRFB concrete base.
- At Station 852+80'NB' 50' RT the new fiber optic line will jog to the east staying a minimum 8' from the proposed force main relocation to cross underneath the Yahara River and avoid conflicts with sanitary relocations. Verizon will coordinate with Alliant with placement of their conduit packet at the similar location.
- At Station 858+45'NB' 43' RT the existing handhole will be relocated to Station 858+50'NB' 72' RT where the new fiber optic line crossing underneath the Yahara River will connect into.
- From the new handhole location, new fiber optic lines will cross underneath Yahara Dr at 60+70'YA' at a depth of 4' and will continue north behind the existing retaining wall 7' to 10' off the existing right-of-way till Station 865+90'NB' 45' RT.

- At Station 865+90'NB', new fiber optic line will cross underneath US 51 at a depth of 5' to the westside of US 51 at 3' off the existing right-of-way at a depth of 4' where it continues north. The new fiber optic line will cross Burma Rd at Station 70+80'BR' at a minimum depth of 8' to clear storm sewer and water main conflicts.
- At Station 873+00'SB' the existing handhole will be relocated into the proposed terrace at 29' LT. New fiber optic will cross from this handhole underneath US 51 at an elevation of 840.3 to clear storm sewer conflicts. The new line will then run along the proposed right-of-way to the relocated handhole off Farwell St at Station 80+74'FWE' 42' RT.

Facility Relocations During Construction:

Notify Verizon as described above to adjust existing vaults/handholes to final grades during construction. Allow 3 working days for this work.

Village of McFarland (Sanitary)

Existing:

The Village of McFarland has underground sanitary lines that cross under US 51 at Station 869+00'NB', 873+25'NB', 874+00'NB' and 878+75'NB'. There are underground sanitary lines that run under the road of Burma Road, Farwell Street, Severson Road, and Dale Road/Dale Curtain Drive.

Facility Relocations During Construction:

As part of the project, construct, relocation, discontinue, and remove sanitary sewer facilities as shown in the plans and in the bid items for this project 5845-16-78.

Village of McFarland (Water)

Existing:

The Village of McFarland has underground water that runs along the westside of US 51 from Yahara Drive to Severson Road. There are underground water crossings at Station 858+75'NB', 869+00'NB', 873+75'NB', and 880+80'NB'. There is underground water that runs underneath the road of Yahara Drive, Burma Road, and Farwell Street.

Facility Relocations During Construction:

As part of the project, construct, relocation, discontinue, and remove water facilities as shown in the plans and in the bid items for this project 5845-16-78.

8. Other Contracts.

Project 5845-16-84, the reconstruction of USH 51 between Tower Road and Exchange Street, is anticipated to begin construction in the spring of 2026. Project 5845-16-74 will install the USH 51 detour route signing for Project 5845-16-76. Contact Cody Kammerzelt, WisDOT Construction Project Manager for Project 5845-16-76, by phone at (608) 243-5995, or by email at Cody.Kammerzelt@dot.wi.gov to coordinate the timing of the USH 51 detour signing installation and coordination of work activities.

Dane County Park is anticipated to begin reconstruction of the Babcock Boat launch in the spring of 2027. Maintain access through the work zone for construction equipment and personnel to get to the site. Dane County Parks contact is Alex DeSmidt, Park Planning Manager, by phone at (608) 445-8665, or by email at desmidt.alex@danecounty.gov.

Coordinate with the Village of McFarland to remove Village-owned signs, as shown in the Sign Removal Plan. Contact Lee Igl, Village of McFarland Public Works Director, at Phone: (608) 838-7287 or Email: lee.igl@mcfarland.wi.us, 7 days prior to Village-owned signs needing to be removed.

9. Hauling Restrictions.

All haul routes within the village limits must be approved by the Village of McFarland prior to usage by the contractor. The preferred haul routes to be utilized throughout the village are on USH 51. Do not operate construction equipment on non-truck routes and residential village streets beyond the construction limits. The contractor is responsible for locating all disposal sites and all necessary permitting required with regard to the disposal sites.

10. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.

The department has assumed coverage under the U.S. Army Corps of Engineers Section 404 Transportation Regional General Permit (TRGP). The department has determined that a pre-construction notification (permit application) to U.S. Army Corps of Engineers and their written verification of TRGP coverage is not necessary for this project.

A copy of the Section 404 Transportation Regional General Permit can be obtained on USACE's website:

<https://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RGP/Transportation.pdf>

If the contractor requires work outside the proposed slope intercepts, based on their method of operation to construct the project, it is the contractor's responsibility to determine whether a pre-construction notification (permit application) and written verification from U.S. Army Corps of Engineers under the Section 404 Transportation Regional General permit is required. If written verification under the TRGP is necessary, submit a pre-construction notification to U.S. Army Corps of Engineers and obtain written verification of permit coverage prior to beginning construction operations requiring the permit. No time extensions as discussed in standard spec 108.10 will be granted for the time required to apply for and obtain the written verification of permit coverage. The contractor must be aware that the U.S. Army Corps of Engineers may not grant the permit request.

stp-107-054 (20230629)

11. Information to Bidders, WPDES Transportation Construction General Permit (TCGP) for Storm Water Discharges.

The calculated land disturbance for the project site is 20.62 acres.

The department has obtained permit coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities under this contract. Conform to all permit requirements for the project.

This permit is the Wisconsin Pollutant Discharge Elimination System, Transportation Construction General Permit, (WPDES Permit No. WI-S066796-2). The permit can be found at:

<https://widnr.widen.net/s/s5mwp2gd7s/finalsignedwisdotcsgp>

A "Certificate of Permit Coverage" is available from the regional office by contacting Cody Kammerzelt at (608) 219-1331. Post the "Certificate of Permit Coverage" in a conspicuous place at the construction site.

Permit coverage for additional land disturbing construction activities related to contractor means and methods will be considered as part of the ECIP review and approval process. Coverage under the TCGP for additional land disturbance areas will be considered if the areas meet all of the following:

- Must meet the permit's applicability criteria.
- Must be for the exclusive use of a WisDOT project.
- Land disturbance first commences after the ECIP approval, and the areas are fully restored to meet the final stabilization criteria of the permit upon completion of the work.

The contractor is responsible for obtaining any permits for areas that are not approved by the department for coverage under the TCGP.

stp-107-056 (20250108)

12. Environmental Protection, Aquatic Exotic Species Control.

Exotic invasive organisms such as VHS, zebra mussels, purple loosestrife, and Eurasian water milfoil are becoming more prolific in Wisconsin and pose adverse effects to waters of the state. Wisconsin State Statutes 30.07, "Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters", details the state law that requires the removal of aquatic plants and zebra mussels each time equipment is put into state waters.

At construction sites that involve navigable water or wetlands, use the follow cleaning procedures to minimize the chance of exotic invasive species infestation. Use these procedures for all equipment that comes in contact with waters of the state and/or infested water or potentially infested water in other states.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels before being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Guidelines from the Wisconsin Department of Natural Resources for disinfection are available at:

<http://dnr.wi.gov/topic/invasives/disinfection.html>

Use the following inspection and removal procedures:

1. Before leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can before leaving the area or invested waters; and
4. Disinfect your boat, equipment and gear by either:
 - 4.1. Washing with ~212 F water (steam clean), or
 - 4.2. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
 - 4.3. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore, this disinfect should be used in conjunction with a hot water (>104° F) application.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site.

stp-107-055 (20130615)

13. Environmental Protection, Dewatering.

Add to standard spec 107.18:

If dewatering is required, the water must be treated to remove suspended solids before it is allowed to enter any waterway or wetland. Provide a settling basin, or other suitable means approved by the engineer, with sufficient capacity and size to provide an efficient means to filter the water from the dewatering operation before it is discharged back into the stream as provided in the Standard Specifications and these special provisions. Direct discharge into the stream will not be permitted. Saturated sediment shall be dewatered in an upland location within a dewatering device. Treatment practices may include the use of a polymer in conjunction with the dewatering mechanism, as approved by the engineer.

In addition, conform to dewatering guidelines of WisDNR Storm Water Management Technical Standards, Code # 1061, "Dewatering". This document can be found at the WisDNR website:

http://dnr.wi.gov/topic/stormwater/documents/Dewatering_1061.pdf

All work and materials associated with water treatment and/or dewatering will be included in the Excavation for Structures bid item. This shall include furnishing all materials, excavation, maintenance, cleaning, disposal of surplus material, removal of the settling basins after completion of dewatering operations, and incidentals necessary to complete the work according to the contract.

14. Erosion Control Structures.

Within three calendar days after completing the excavation for a substructure unit, place riprap or other permanent erosion control items required by the contract or deemed necessary by the engineer around the unit at a minimum to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as the engineer directs.

In the event that construction activity does not disturb the existing ground below the Q2 elevation, the above timing requirements for permanent erosion control shall be waived.

stp-107-070 (20191121)

15. Notice to contractor, Notification of Demolition and/or Renovation No Asbestos Found.

John Roelke, License Number All-119523, inspected Structure B-13-0385 for asbestos on 8/23/2012. No Regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is included with the bid package or available from David Schmidt, P.E. at david2.schmidt@dot.wi.gov or (608) 246-3867.

According to NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 03/20), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days before beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to David Schmidt, P.E. at david2.schmidt@dot.wi.gov or (608) 246-3867 and via e-mail to dothazmatunit@dot.wi.gov or via U.S. mail to DOT BTS-ESS attn: Hazardous Materials Specialist, 5 South S.513.12, PO Box 7965, Madison, WI 53707-7965. In addition, comply with all local or municipal asbestos requirements.

Use the following information to complete WisDNR form 4500-113:

- Site Name: Structure B-13-0385, USH 51 over Yahara River
- Site Address: 3.2 miles N Jct CTH B to W
- Ownership Information: WisDOT Transportation Southwest Region, 2101 Wright Street, Madison, WI 53704
- Contact: David Schmidt, P.E.
- Phone: (608) 246-3867
- Age: 33 years old. This structure was constructed in 1992
- Area: 4,132 SF of deck

Insert the following paragraph in Section 6.g.:

If asbestos not previously identified is found or previously non-friable asbestos becomes crumbled, pulverized, or reduced to a powder, stop work immediately, notify the engineer, and the engineer will notify the department's Bureau of Technical Services at (608) 266-1476 for an emergency response as specified in standard spec 107.24. Keep material wet until it is abated or until it is determined to be non-asbestos containing material.

stp-107-125 (20220628)

16. Notice to Contractor, Advance Notification.

Notify Village of McFarland Police, EMS, Fire Department, Dane County Sheriff's Department, and McFarland School District, garbage/recycling pick-up companies, and the post office in writing two weeks in advance of the start of the project, and two weeks in advance of all traffic switches and full night closures. Notifications must be given by 4:00 PM on Wednesday for any such work to be done on the following Monday.

Place Portable Changeable Message Signs (PCMS) at the locations shown in the plan at least 7 days prior to and during construction. See plans for department approved messages to be displayed on each PCMS. Two PCMS shall remain on the project site throughout construction to be used as needed as directed by the engineer.

17. Notice to contractor – Electronic Load Tickets.

Replace standard spec 109.1.4.3 (1) with the following:

(1) Submit an electronic ticket for each load of material for the following bid items:

- o Concrete Pavement 8-Inch
- o Concrete Pavement HES 8-Inch
- o Concrete Masonry Bridges
- o Concrete Masonry Retaining Walls

Include the information as specified in 109.1.4.2 on each electronic ticket. If there is a failure in the electronic ticket system, provide a printed ticket for each load of material as a substitute for electronic tickets.

stp-107-230 (20250108)

18. Notice to contractor – Traffic Signals & Lighting, General.

Electrical materials installed on this project shall conform to the requirements of the latest edition of the Wisconsin Department of Transportation Qualified Electrical Products List. This list is available at:

<https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/prods/gpl.aspx>

Note that failure to comply with the state standards and specifications may result in the cost of the corrections to be made at the contractor's expense. Also, any additional disruption of state-owned facilities shall be repaired or relocated as needed at the contractor's expense.

Department Furnished Equipment:

WisDOT will be responsible for furnishing and installing the traffic signal control cabinet and controller at the USH 51 & Farwell St/Severson Rd intersection. All connections in the signal cabinet and programming of the signal controller will be completed by WisDOT. Coordinate construction activities with WisDOT. Contact Graham Heitz of WisDOT at (608) 246-5362, 7 days prior to signal turn-on to make arrangements.

WisDOT will be responsible for furnishing and installing the video detection cameras on SB5 and SB12 and making the connections within the traffic signal cabinet. The contractor is responsible for transporting and installing the WisDOT furnished CAT-5E cable.

WisDOT will be responsible for furnishing and installing the emergency vehicle preemption on SB2 and SB5 and making the connections within the traffic signal cabinet. The contractor is responsible for installing Traffic Signal EVP Detector Cable.

WisDOT will be responsible for furnishing and installing the cellular modem for communications at the intersection.

Notify Graham Heitz of WisDOT at (608) 246-5362 to make arrangements for picking up the southwest region furnished materials three working days prior to picking the materials up and transporting to the project site.

19. Archaeological Surveys for Non-Commercial Borrow Sites, Batch Plants, Waste Sites, and Staging Areas.

As a result of the United States (US) 51 corridor study and due to the number cultural resources throughout, stipulations within a Memorandum of Agreement (MOA) for the corridor requires archaeological surveys are to be conducted for **all** non-commercial borrow sites, batch plants, waste sites, and staging areas to be used for this Project. Desktop audit or literary research are non-compliant cultural resource clearances for this corridor.

Per federal requirements of the MOA, archaeological surveys will be conducted by WisDOT Cultural Resource Team (CRT) archaeologist only.

Due to seasonal field survey weather restrictions, field surveys cannot take place during frozen ground conditions. Therefore, determination of non-commercial site needs should be provided as soon as possible. Due to these restrictions, at least one commercial site will be selected and used until surveys can be conducted at selected non-commercial sites if field conditions delay surveys and therefore the approval of a non-commercial select site.

20. Archaeological Site.

The following archaeological sites are located within the project limits:

- Uncatalogued burial site 47DA0087 (BDA0547) Holver Johnson Group is located approximately Station 834+00 NB to Station 842+50 NB, RT/LT within the environmentally sensitive limits shown on the plans.
- Uncatalogued burial site 47DA0080 (BDA0368) Bryngelson Group is located approximately Station 859+00 NB to Station 866+25 NB, RT within the environmentally sensitive limits shown on the plans.

Notify the Bureau of Technical Services – Environmental Process and Document Section (BTS-EPDS) at (608) 266-0099 at least two weeks before commencement of any ground disturbing activities. BTS-EPDS will determine if a qualified archaeologist will need to be on site during construction of these areas.

Do not use these sites for borrow or waste disposal. Do not use these site areas not currently capped by asphalt/concrete for the staging of personnel, equipment and/or supplies.

stp-107-220 (20180628)

21. Construction Over or Adjacent to Navigable Waters.

The Yahara River is classified as a state navigable waterway under standard spec 107.19.

stp-107-060 (20171130)

Add the following to standard spec 107.19(3):

A waterway marker permit is required for placing advanced warning signs and markers on the Yahara River. Additional information on waterway markers can be found on the Wisconsin DNR website:

<https://dnr.wisconsin.gov/Topic/Boat/ordinances>

Waterway Marker Application and Permit is required for both types of navigational markers (informational vs. control/restrictive) prior to construction. Local Ordinances have been passed by the Village of McFarland and the Town of Dunn for access restriction of Yahara River during the replacement of bridge structure B-13-385. Request copies of the ordinance from WisDOT. Determine which type of navigational aids are needed according to the project's design and methods. The general steps for submission of a Waterway Marker Application and Permit are as follows:

Please fill out the Waterway Marker Application and Permit form:

<https://dnr.wisconsin.gov/sites/default/files/topic/Boat/8700-058.pdf>

The Wisconsin Department of Transportation shall be listed as the applicant.

Include an aerial map-diagram or engineered-diagram of the work location and the placement of the waterway markers (buoys). If proposed, GPS coordinates for each buoy are not provided, then markers placed on the diagram shall show distance (in feet) from each marker location and from one permanent fixture as a benchmark.

Provide the completed application/permit to the local municipalities (Village of McFarland & Town of Dunn) having jurisdictional authority over the area in which the waterway markers will be placed.

Forward the signed application/permit to the Wisconsin DNR WisDOT Liaison shown in the plans as well as the Boating Program Specialist:

Wisconsin Dept. of Natural Resources
ATTN: Lt Bob Kneeland
PO BOX 397
Cumberland, WI 54829-0397
Robert.kneeland@wisconsin.gov
715-764-0716

The Boating Program Specialist will communicate with the local Warden and Recreational Safety Warden in processing and finalizing the permit. If the permit application is incomplete or additional information is needed the Boating Program Specialist will work with the Wisconsin DNR's Regional WisDOT Liaison to resolve.

Maintain the waterway open to boat traffic at all times and maintain the existing navigational vertical clearance during construction unless otherwise approved by Wisconsin DNR during the permitting process.

22. Coordination with Businesses and Residents.

The department will arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week before the start of work under this contract and hold a meeting one week prior to each traffic staging

change. The department will arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. Schedule meetings with at least 2 weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

23. General Provisions for Village of McFarland Sanitary Sewer.

Contact Information:

Lee Igl
Director of Public Works
Phone: (608) 838-7287
E-mail: lee.igl@mcfarland.wi.us

Utility Standard Specifications

Perform work according to these provisions and the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction and the Village of McFarland Standard Specifications for Public Works Construction-Latest Edition.

Work Sequence

Contact the identified person above 10 working days prior to starting work on the sanitary sewer and provide a schedule of operations. Construct sanitary sewer main and laterals in stages according to the traffic control plan and in proper coordination with construction for activities adjacent to the sanitary sewer main.

Provide bypass pumping of sanitary sewage to maintain sanitary sewer service when new sewer access structures are being constructed over the existing mains.

Shop Drawings and Samples

Submit shop drawings and product information to the engineer and Village of McFarland Engineer as required in these Special Provisions and for the following:

- Sanitary Sewer Pipe Material.
- Sanitary Sewer Manhole Casting and Manhole Covers.
- Sanitary Sewer Internal Chimney Seal.
- Sanitary Sewer Manholes.

Contractor's responsibilities include:

- Review shop drawings and samples prior to submittal.
- Determine and verify field measurements, field construction criteria, catalog numbers and similar data, and conformance with specifications.
- Coordinate each submittal with requirements of work and of Special Provisions.

Do not begin any fabrication or work listed above as requiring shop drawings or samples until return of submittals with Village Engineer's approval.

Provide shop drawings containing the following:

- Date of submittal and dates of previous submittals.
- Project title and number.
- Contract identification.
- Names of contractor, supplier, and manufacturer.
- Identification of product, with identification numbers, and drawing and specification section numbers.
- Field dimensions clearly identified.
- Identification of details required on drawings and in specifications.
- Manufacturer and model number (give dimensions and provide clearances).
- Relation to adjacent or critical features or work or materials.
- Applicable standards, such as ASTM, and identification of deviations from contract documents.
- Source of samples and material properties.
- Identification of revisions on re-submittals.
- Eight-inch and three-inch blank space for contractor and Village Engineer stamps.
- contractor's stamp, signed, certifying to review of submittal, verification of products, field measurement, field construction criteria, and coordination of information with submittal with requirements of work and special provisions.

If required by the Village Engineer or Village Engineer's Representative, resubmit shop drawings that include the following:

- Corrections or changes from previous submittals as indicated by Village Engineer or Village Engineer's Representative. Re-submittals are required until approved.
- Shop Drawings and Product Data: Review initial drawings or data and resubmit as specified for initial submittal. Indicate changes, which have been made other than those requested by Village Engineer.

Testing and Acceptance

Submit materials production and field placement testing results as required by the Village Standard Specifications or as required by the Village Engineer or Village Engineer's Representative. Final acceptance of sanitary sewer and related materials such as backfill, slurry, etc. will come from the Village Engineer or Village Engineer's Representative.

Allow the Village of McFarland to sample/test materials as requested. Provide complete copies of required submittals in electronic format.

The Village Engineer or Village Engineer's Representative will review and return shop drawings to the contractor within one week of date of receipt.

Protection of Sewers

Take adequate measures to prevent impairment of operation of existing sanitary sewer and storm sewer systems. Prevent construction material, concrete, earth, or other debris from entering sewer or sewer structure.

Divert sewage flow interfering with construction to sanitary sewers leading away from construction area. Prior to commencing excavation and construction of work impacting existing Village sewer, submit to Village Engineer for review, detailed plans, including routing and connections, required to handle and dispose of sanitary wastes. By reviewing the plan, the Village Engineer neither accepts responsibility for adequacy thereof nor for damages to public or private property resulting there from, such responsibilities remain with the contractor.

Restore or replace to original material and workmanship used for original construction any sanitary sewer damaged or removed during construction which is to remain in service.

Deliver all Village of McFarland manhole castings removed from sewer access structures (removed, abandoned, or swapped out with a casting elevation adjustment) to the Village.

The costs to remove all abandoned utility pipes within the new sanitary sewer pipe trench or new sewer access structure excavation will be included in the unit price bid for the new pipe of the type, class and diameter used. The cost includes installing a concrete plug in the portion of the abandon pipe that remains in place after completion of sanitary sewer trench.

According to the Village Standard Specifications, "Pipe to be removed that is in the same trench as a new pipe will not be compensated as remove pipe and will be considered to be incidental to the new pipe installation." Same trench will be considered to be any pipe located with 3 feet horizontally of the pipe being installed.

24. General Provisions for Village of McFarland Water Main.

Contact Information

Lee Igl
Director of Public Works
Phone: (608) 838-7287
E-mail: lee.igl@mcfarland.wi.us

Utility Standard Specifications

Perform work according to these provisions and the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction and the Village of McFarland Standard Specifications for Public Works Construction-Latest Edition, hereinafter referred to as the *Village Standard Specifications*. In the event of a conflict, the Wisconsin Department of Transportation Standard Specifications will take precedence.

Work Sequence

Contact the identified person above 10 working days prior to starting water main work and provide a schedule of operations. Construct water main and water service laterals in stages according to the traffic control plans and in proper coordination with construction activities adjacent to the water main. As construction staging and sequence allows, disinfect the new water mains. The contractor is responsible for testing of the water main in accordance with Village Standard Specifications. Testing results must be submitted to the Village for approval prior to the installation of replacement water services. After the water main has passed bacteriological and pressure testing, install replacement water services and make connections to the existing water system. Water main installation will consist of strategic abandonment of the existing water main. Abandon existing water main only after the new water main has passed all required testing, new main has been properly brought online into the system and all service laterals, except those called to be abandoned, have been relocated to the new main.

Keep valves at connection points between the new water main and the existing water main closed until the new water main has passed all testing. Where new valves need to be opened to fill the new water main for testing and flushing, arrange sequencing to preclude backflow of any water from the new water main to the existing water main.

Following the installation of replacement water services and the connection of replacement water main to the existing water main at locations noted on the plans, the existing water main shall be cut off; drained; open ends plugged or bulk-headed with concrete; and the pipe abandoned in place. This work is considered incidental to the new water.

Hydrants

Determine the location of the curb line, sidewalk limits, and existing utilities in the area prior to hydrant installation to assure the proper location of the hydrant relative to the curb line. This work is considered incidental to the new water main installation. Where needed, use offsets and/or bends on the hydrant lead such that the hydrant is installed at a minimum bury depth of six feet and required clearances with storm sewer, sanitary sewer and other pipes are maintained. In no case may a hydrant be set at a depth greater than 9 feet from grade. Assess the need for hydrant extensions. All hydrant extensions and fittings on the lead are incidental to the installation of the hydrant. Either permanently abandon or securely bag any installed hydrant, either existing or new, that is not supplied by an in-service main overnight or for longer than 12 hours until the hydrant is permanently abandoned or back in service.

Temporary Flushing Hydrants

The installation of temporary flushing hydrants may be desired as part of the phasing and sequencing of water main installation, and is required for flushing in other locations. The furnishing, installation, use and abandonment of temporary flushing hydrants is incidental to water main installation.

Temporary Air Bleed

Where any installation of proposed water main does not have an adjacent hydrant or other means of bleeding air from the main, install a temporary 2-inch corporation stop at the high point of the main.

Remove the stop and plug the opening after successful completion of water main testing. Installation, use, maintenance, removal and plugging of corporation stops for use as air bleeding devices are incidental to the installation of water main.

Abandoned Facilities

Abandoned facilities exist within the project limits and utility companies will be abandoning some additional facilities in place after relocating facilities to avoid conflicts with the proposed work. Removal by the contractor of any abandoned facilities necessary to complete the proposed work, including plugging the remaining ends of the facility, is considered incidental to the contract. Contact each utility company individually to verify if any can be expected and to possibly obtain facility maps for approximate locations.

The costs to remove all abandoned utility pipes within the new water main trench or related excavation will be included in the unit price bid for the respective bid item. The cost includes installing a concrete plug in the portion of the abandoned pipe that remains in place after completion of the trench or excavation.

Location of Existing Water Facilities

The horizontal and vertical location and size of all existing water mains indicated on the plans is taken partially from surveys, approximate measurements, and available Village's records. These records are not guaranteed to be accurate in all cases. Due to the unverified depth and location of existing pipelines, alteration of the lines and grades shown on the plans for new pipelines where connections are to be made to existing pipelines may be necessary. Notify the Village and engineer in writing of locations where

alterations of the lines and grades shown are necessary so that an acceptable solution can be determined.

25. Dunn Sanitary District No. 3 Acceptance of Sanitary Sewer Construction.

Construction of sanitary sewer will be inspected and accepted by the Dunn Sanitary District #3 or their engineering consultant. Contact: Al Monroe, (608) 469-3720, TDSSD3@gmail.com.

26. Municipality Acceptance of Force Main Construction.

Both the department and Kegonsa Sanitary District personnel will inspect materials placement of force main under this contract. However, post-placement testing inspection of the system and final acceptance of the force main construction will be by the Kegonsa Sanitary District. Contact: Brian Shotliff, (608) 843-6026, serviceoperator@kegonsasaniarydistrict.com.

27. Abandoning Sewer, Item 204.0291.S01.

A Description

This special provision describes abandoning existing sewer by filling it with flowable grout as the plans show and conforming to standard spec 204 and standard spec 501 as modified in this special provision.

B Materials

B.1 Cement

Furnish cement meeting the requirements of standard spec 501.2.4.1 for Type I or II Portland Cement or Type IL Portland-Limestone Cement.

B.2 Fly Ash

Furnish Class C or F Fly Ash meeting the requirements of standard spec 501.2.4.2.2.

B.3 Sand

Furnish natural sand meeting the fine aggregate requirements of standard spec 501.2.7.2 and the size requirements of standard spec 501.2.7 except the percent passing the number 200 sieve shall be 0-5 percent by weight.

B.4 Water

Furnish water meeting the requirements of standard spec 501.2.6.

B.5 Mix Design

Use the basic proportions of dry materials per cubic yard of grout as follows:

- Cement 100 pounds
- Fly Ash 400 pounds
- Fine Aggregate 2600 pounds

or an engineer approved equal.

In addition, the grout shall conform to the following:

Compressive Strength	ASTM C495	300 psi @ 28 day min
Density	ASTM C495 (no oven drying)	50 pcf min
Shrinkage	ASTM	1% by volume
Flow	ASTM C939	35 sec max

Air entraining and chemical admixtures to control fluidity of the grout are allowable. Fourteen days before placement, furnish to the engineer a design mix detailing all components and their proportions in the mix.

B.7 Cellular Grout

Alternatively, the contractor may use, or if the manufacturer recommends, an engineer-approved commercial cellular concrete grout conforming to the following:

Cement	ASTM C150/ ASTM C595	Type I or II/Type IL
Density	ASTM C495 (no oven drying)	50 pcf min
Compressive Strength	ASTM C495	300 psi @ 28 day min 100 psi in 24 hours
Shrinkage	ASTM C157	1% by volume
Flow	ASTM C939	35 sec max

C Construction

C.1 Sewage Bypassing

Prior to abandoning any existing sanitary sewer, bypass sewage flows to the section of sanitary sewer main being abandoned by inserting temporary plugs in upstream manholes or sewers and pumping or hauling sewerage to downstream manholes or locations as approved by the Madison Metropolitan Sewerage District (MMSD).

C.2 Sanitary Sewer Cleaning and Televising

Jet and clean each section of sanitary main to be abandoned to remove sewage, grease, solids, and other contaminated materials from the pipe. Televiser each section to verify cleaning is satisfactory.

After cleaning, sewage shall be prevented from discharge into the abandoned section of sewer. Reclean and televise any pipe section, if sewage is reintroduced prior to full abandonment.

C.3 Trenching and Excavation

If necessary to abandon sewer, excavate to depth of existing sewer per the requirements of standard spec 608.3.1.

C.4 Dewatering

If dewatering is necessary to abandon sewer, obtain all necessary permits from Wisconsin Department of Natural Resources prior to the start of dewatering activities. Perform dewatering practices in accordance with Wisconsin Department of Natural Resources Technical Standard 1061, *Dewatering Practices for Sediment Control* and any applicable permits. Maintain dewatering operation until all construction activities, including backfilling activities, are complete.

C.5 Abandon Sewer

Fill the abandoned sewer pipe with flowable grout as the engineer directs. In the event that the sewer cannot be completely filled from existing manholes, tap the sewer where necessary and fill from these locations.

C.6 Backfilling

Backfill trenches in accordance with standard spec 608.3.5.

D Measurement

The department will measure Abandoning Sewer in volume by the cubic yard as specified in standard spec 109.1.3.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S01	Abandoning Sewer	CY

Payment is full compensation for furnishing all materials, sewer cleaning and televising, trenching, excavating, shoring, dewatering, backfilling, compaction, disposal of excess materials, and incidentals.

**28. Removing Flashing Beacon Assembly, Item 204.9060.S.01;
Removing Boulder, Item 204.9060.S.02;
Removing Street Light Pole Assembly, Item 204.9060.S.03.**

A Description

This special provision describes Removing Flashing Beacon Assembly, Removing Boulder, and Removing Street Light Pole Assembly conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Flashing Beacon Assembly, Removing Boulder, and Removing Street Light Pole Assembly in each, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Flashing Beacon Assembly	EACH
204.9060.S.02	Removing Boulder	EACH
204.9060.S.03	Removing Street Light Pole Assembly	EACH

stp-204-025 (20230113)

**29. Removing Modular Block Retaining Wall, Item 204.9090.S.01;
Removing Stone Retaining Wall, Item 204.9090.S.02.**

A Description

This special provision describes Removing Modular Block Retaining Wall and Removing Stone Retaining Wall conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Modular Block Retaining Wall and Removing Stone Retaining Wall by the linear foot, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Modular Block Retaining Wall	LF
204.9090.S.02	Removing Stone Retaining Wall	LF

stp-204-025 (20230113)

30. Cofferdams B-13-907.

Add the following to standard spec 206.3.3 with the following:

If providing cofferdams and cribs for foundation construction, ensure that they are safely designed and constructed, carried to adequate depths and heights, and are made watertight as necessary for the proper performance of the work. Construct cofferdams and cribs so that interior dimensions give sufficient clearance for the construction of forms and the inspection of their exteriors, and to allow pumping from sumps outside the forms. If cofferdams or cribs tilt or move laterally during the process of sinking, right, reset, or enlarge them to provide the necessary clearance. The contractor is responsible for any claims for damages resulting from the use of a well-point system.

Coordinate and perform cofferdam installation and removal operations to prevent damage or displacement of substructure units or adjacent structures and other facilities due to vibrations.

The adjacent Babcock Park Lock and Dam is sensitive to vibration. If sheet piles are used for cofferdams, they shall be installed with a hydraulic press-in system to mitigate vibration and settlement risks. Vibratory or driven sheet piles shall not be used.

31. Backfill Controlled Low Strength, Item 209.0200.S.

A Description

This special provision describes furnishing and placing a controlled low strength material designed for use as backfill in trenches for culverts, sewers, utilities, or similar structures, as backfill behind bridges abutments, or as fill for the abandonment of culverts, pipes, or tanks.

B Materials

Provide controlled low strength backfill that consists of a designed cementitious mixture of natural or processed materials. Allowable materials include natural sand, natural gravel, produced sand, foundry sand, produced gravel, fly ash, Portland cement, and other broken or fragmented mineral materials. The designed mixture shall be self-leveling and shall be free of shrinkage after hardening. Design the mixture to reach a state of hardening such that it can support foot traffic in no more than 24 hours. Provide a mixture that also meets the following requirements:

TEST	METHOD	VALUE
Flow (inch)	ASTM D-6103	9 min
Compressive	ASTM D-6024	20-40 @ 14 days
Strength (psi)		40-80 @ 28 days
		80-120 @ 90 days

Chemical admixtures to control air content and setting time are allowable. Ten days before placement, furnish the engineer with a design mix detailing all components and their proportions in the mix.

C Construction

Place controlled low strength backfill at the locations and to the lines and grades as shown on the plan. Proportion and mix materials to produce a product of consistent texture and flow characteristics. The engineer may reject any materials exhibiting a substantial change in properties, appearance, or composition.

If the official Weather Bureau forecast for the construction site predicts temperatures at or below freezing within the next 24 hours after placement of controlled low strength backfill, protect the placed materials from freezing during that time period. If the temperature is not forecast to rise above 40° F for 72 hours after placement, the engineer may require protection from freezing for up to 72 hours.

No controlled low strength backfill shall be allowed to enter any stream, lake, or sewer system. The contractor will be responsible for any clean up or remediation costs resulting from such occurrences.

D Measurement

The department will measure Backfill Controlled Low Strength in volume by the cubic yard of material, placed and accepted. Such volume shall be computed from actual measurements of the dimensions of the area to be backfilled. In irregular or inaccessible areas, the engineer may allow volume to be determined by other appropriate methods.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
209.0200.S	Backfill Controlled Low Strength	CY

Payment is full compensation for designing the mix; supplying all materials; preparing the proportioned mix; hauling it to the construction site; placing the material; and protecting it from freezing.

stp-209-010 (20191121)

32. Base Aggregate Dense 3/4-Inch, Item 305.0110.

Add the following to standard spec 301.2.4.3:

Furnish only aggregate classified as crushed stone for Dense 3/4-Inch when used in the top 3 inches of the unpaved portion of the shoulder or for unpaved driveways and field entrances.

swr-305-001 (20170711)

33. Base Aggregate Dense 1 1/4-Inch, Item 305.0120.

Add the following to standard spec 305.2.2.1:

When 1 1/4-Inch base aggregate is $\geq$ 50 percent crushed gravel, conform to the following gradation requirements:

SIEVE	PERCENT PASSING BY WEIGHT
1 1/4 inch	95 - 100
1 inch	---
3/4 inch	70 - 90
3/8 inch	45 - 75
No. 4	30 - 60
No. 10	20 - 40
No. 40	7 - 25
No. 200	3 - 10 ^[1]

^[1] Limited to a maximum of 8.0 percent for base placed between old and new pavement.

swr-305-002 (20170711)

34. Stamping Colored Concrete, Item 405.1000.

This special provision describes stamping and coloring concrete McFarland Slate for work constructed under other contract bid items. Conform to standard spec 405 as modified in this special provision.

Replace standard spec 405.2.1.1(1) with the following:

Integrally color concrete using non-fading pigments conforming to ASTM C979.

- For McFarland Slate: use synthetic iron oxide at a loading of six percent or more by weight of total cementitious material in the mix. Match the concrete color in reasonably close conformance with McFarland Slate color, which is similar to Federal Standard 595 - FS 26152.

Replace standard spec 405.2.1.1(3) with the following:

The department will accept the color based on comparison to color samples available for viewing along the 4700 block of Farwell Street, McFarland, WI.

Replace the entire contents of standard spec 405.2.2 with the following:

Furnish McFarland Slate full-depth colored concrete conforming to standard spec 405.2.1

Provide a fieldstone style pattern. Fieldstone style pattern shall match the existing stamped pattern along Farwell Street.

Provide release agents according to the manufacturer's instructions.

Replace the entire contents of standard spec 405.3.2 with the following:

Color concrete full-depth conforming to standard spec 405.3.1

Stamp concrete surfaces according to the manufacturer's instructions.

Apply release agent according to manufacturer's instructions.

stp-405-100 (20190618)

35. Rout and Seal, Item 415.6000.S.

A Description

This special provision describes routing, cleaning, drying, and sealing the longitudinal edge of pavement joints in new asphaltic pavement shoulders immediately adjacent to the edge of the concrete mainline pavement.

B Materials

Furnish material that conforms to the requirements of the Specifications for Joint Sealants, Hot-Poured, for Concrete and Asphalt Pavements, ASTM Designation: D 6690, Type II, modified to require that the bond strength test be run at -20 degrees F. (The unmodified ASTM D 6690, Type II allows this test to be run at either 0 degrees F or -20 degrees F.)

Deliver each lot or batch of sealing compound to the jobsite in the manufacturer's original sealed container. Mark each container with the manufacturer's name, batch or lot number, and the safe heating temperature. Present the manufacturer's certification stating that the compound meets the requirements of this specification. Before applying the sealant, furnish to the engineer a certificate of compliance and a copy of the manufacturer's recommendations on heating and applying the sealant.

C Construction

C.1 Equipment

Heat the sealing compound to the pouring temperature recommended by the manufacturer in an approved kettle or tank, constructed as a double boiler, with the space between the inner and outer shells filled with oil or other satisfactory heat transfer medium. If, and when, using the heating kettle on concrete or asphaltic pavement, properly insulate the heating kettle to ensure heat is not radiated to the pavement surface.

Make rout cuts in a single pass. Two-pass cutting will not be allowed. Use a self-propelled mechanical router capable of routing the bituminous pavement to provide a 1.0:1.0 depth to width ratio of all routed cracks. The router blade or blades shall be of such size and configuration to cut the desired joint reservoir in one pass. No spacers between blades shall be allowed unless the contractor can demonstrate to the engineer that the desired reservoir and rout cut can be obtained with them. Either wet or dry routing will be permitted provided the above conditions are met. Use a pressure distributor for applying sealing material through a hand-operated wand or nozzle according to sealant manufacturer's instructions.

C.2 Methods

Conduct the operation so that the routing, cleaning, and sealing are continuous operations. Traffic shall not be allowed to knead together or damage the routed joints. Rerout, if necessary, routed joints not sealed before traffic is allowed on the pavement when routing and sealing operations resume. Do not perform rout cutting, cleaning, and sealing, within 48 hours of the placement of the shoulder's surface course.

Rout the longitudinal joint to a minimum width of 3/4 inches and a minimum depth of 3/4 inches. Use a power vacuum or equivalent to immediately remove any routing slurry, dirt, or deleterious matter adhering to the joint walls or remaining in the joint cavity, or both. Before sealing, dry the cleaned joints either by air-drying or by using a high capacity torch. Immediately before sealing, blow out the dried crack with a blast of compressed air, 80-psi minimum. Continue cleaning until the joint is dry, and until all dirt, dust, or deleterious matter is removed from the joint and adjacent pavement to the satisfaction of the engineer. If the air compressor produces dirt or other residue in the joint cavity, the contractor is required to clean the joint again.

If cleaning operations could cause damage to, or interfere with, traffic in adjacent lanes, or both, provide protective screening that is subject to the approval of the engineer to the cleaning operation.

Following cleaning, dry the routed joints and warm them with a hot air lance. Take care not to burn the pavement surface. Under no circumstances shall more than two minutes elapse between the time the hot air lance is used, and the sealant is placed.

Provide positive temperature control and mechanical agitation. Do not heat the sealant to more than 20 degrees F below the safe heating temperature. The safe heating temperature can be obtained from the manufacturer's shipping container. Provide a direct connecting pressure type extruding device with nozzles shaped for insertion into the joint. Immediately remove sealant spilled on the surface of the pavement.

Seal the joints when the sealant material is at the pouring temperature recommended by the manufacturer. Fill the joint such that after cooling, the sealant is flush with the adjacent pavement surface. Do not overfill the joint; the engineer may allow a very slight overband. Sand shall not be spread on the sealed joints to allow for opening to traffic. Before opening to traffic, the sealant shall be tack free.

D Measurement

The department will measure Rout and Seal in length by the linear foot, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
415.6000.S	Rout and Seal	LF

Payment is full compensation for rout cutting; cleaning the joint; sealing the joint; and cleanup.

stp-415-100 (20210113)

36. Abutment Construction.

Determine the method of construction, and observe the following conditions:

1. If a cofferdam is used, build the cofferdam of non-erodable material.
2. Concrete poured under water will be allowed; pour the concrete conforming to standard spec 502.3.5.3. Ensure that the forms are tight to prevent leakage of concrete into the stream. Treat all displaced water by filtration, settling basin, or other means sufficient to reduce the cement content before discharging the water into the stream.

stp-502-010 (20050502)

37. Concrete Masonry Soldier Pile Footings, Item 502.0110.S.

A Description

This special provision describes furnishing and placing concrete into predrilled holes for soldier piles and installing soldier piles. Perform work conforming to standard spec 502.

B Materials

Provide and use concrete masonry for Concrete Masonry Soldier Pile Footings conforming to grade A as specified in standard spec 501. Perform QMP testing conforming to standard spec 716 for Class II Ancillary Concrete for all concrete masonry for Concrete Masonry Soldier Pile Footings.

C Construction

Before placing concrete masonry, give the engineer sufficient notice to allow inspection of the predrilled holes, soldier piles, and casting preparations. For concrete masonry soldier pile footings constructed without the use of slurry, no more than 3 inches of standing water is permitted in the bottom of the drilled hole before beginning soldier pile installation and immediately before placing concrete masonry in the hole around the soldier pile. If necessary, place up to 2 feet of concrete at the bottom of the hole to assist in aligning the soldier pile. Block or clamp the soldier pile in place at the ground surface before placing concrete.

For holes drilled or excavated without slurry, the department will allow the contractor to place concrete by free-falling the concrete from the ground surface down the shaft around the soldier pile. If temporary casing is used, begin placement of the concrete before removing the casing. Remove the casing while the concrete remains workable. For holes drilled or excavated using slurry, place concrete using a tremie method from the bottom of the shaft. Withdraw the tremie pipe slowly as the level of concrete rises in the shaft and never let the level of the tremie pipe outlet exceed the height of the slurry.

D Measurement

The department will measure Concrete Masonry Soldier Pile Footings by the cubic yard, acceptably completed. The department will only include material within the limits and in the places the plans show.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
502.0110.S	Concrete Masonry Soldier Pile Footings	CY

Payment is full compensation for furnishing all materials, pumping, placing, QMP testing, finishing, curing, and protecting installation of soldier piles.

stp-502-030 (20210708)

38. Cold Patch, Item 495.1000.S.

A Description

This special provision describes furnishing cold patch and filling potholes and other voids in existing pavement surfaces as the engineer directs.

B Materials

Furnish a mixture of course aggregate, natural sand, and MC-250 bituminous material designed to have a workability range of 15-100° F without heating. Ensure that the mixture:

- Adheres to wet surfaces.
- Resists damage from water, salt, and deicing products.
- Requires no mixing or special handling before use.
- Supports traffic immediately after placement and compaction.

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1/2-inch (12.5 mm)	100
3/8-inch (9.5 mm)	90 - 100
No. 4 (4.75 mm)	90 max
No. 8 (2.38 mm)	20 - 65
No. 200 (0.074 mm)	2 - 10
Bitumen	4.8 - 5.4

The department will accept cold patch based primarily on the engineer's visual inspection. The department may also test for gradation.

C Construction

Stockpile cold patch on site on a smooth, firm, well-drained area cleared of vegetation and foreign material. Cover the stockpile and ensure that it is easily accessible. Replenish the stockpile throughout the project duration but limit the size at any given time to 10 tons on site unless the engineer approves otherwise. Dispose of unused material at project completion unless the engineer directs otherwise.

Place cold patch by hand. Remove ponded water and loose debris before placement. Compact flush with a tamper, roller, or vehicle tire after placement.

Refill patched areas as necessary to maintain a flush pavement surface until project completion.

D Measurement

The department will measure Cold Patch by the ton, acceptably stockpiled on site.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
495.1000.S	Cold Patch	TON

Payment for Cold Patch is full compensation for providing and maintaining patches; for furnishing and replenishing stockpiled material on-site; and for disposing of excess material at project completion.

stp-495-010 (20160607)

39. Precast Concrete Box Culvert, 4 FT x 6 FT, Item 504.2000.S.

A Description

This special provision describes furnishing and installing precast concrete box culverts of the size and length the plans show.

B Materials

Provide materials and fabricate Precast Concrete Box Culvert according to ASTM C1577, except that the concrete mixture shall contain not less than 565 pounds of Portland cement, blended cement or Portland cement plus pozzolanic admixture per cubic yard. Submit shop drawings of the precast concrete box culvert to the Engineer for review a minimum of two weeks prior to onsite delivery and installation.

C Construction (Vacant)

D Measurement

The department will measure Precast Concrete Box Culvert, 4 FT x 6 FT, completed according to the contract and accepted, in length by the linear foot in place. The box culvert will be measured on the centerline of the box along the flow line.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
504.2000.S.	Precast Concrete Box Culvert, 4 FT x 6 FT	LF

Payment is full compensation for furnishing, hauling and placing the box, including joint ties, and mastic.

stp-504-015 (20160607)

40. Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S.

A Description

This special provision describes furnishing and placing stainless steel reinforcing bars and associated stainless steel bar couplers.

Conform to standard spec 505 as modified in this special provision.

B Materials

B.1 General

Furnish stainless steel reinforcing bars conforming to ASTM A955 and to one of the following Unified Numbering System (UNS) designations: S31653, S31803, S32205, or S32304. Supply grade 60 bars, all of the same UNS designation. Conform to the chemical composition specified for the given UNS designation in ASTM A276 table 1.

Supply bars that are free of dirt, mill scale, oil, and debris by pickling to a bright or uniform light finish. The department may reject bars displaying rust/oxidation, questionable blemishes, or lack of a bright or uniform pickled surface.

Furnish chairs or continuous supports made of stainless steel or recycled plastic to support high-strength stainless bar steel reinforcement subject to the plastic chair restriction stated in standard spec 505.3.4(1).

Furnish couplers made from one of the UNS alloys allowed for bar steel.

Furnish tie wire made from one of the UNS alloys allowed for bar steel or from an engineer-approved plastic or nonmetallic material. Ensure that stainless steel tie wire is dead soft annealed.

B.2 Fabrication

Before fabrication, supply test results from an independent testing agency certifying that the reinforcement meets the requirements of Annex A1 of ASTM A955.

Bend bars conforming to standard spec 505.3.2 and according to ASTM A955. Bend and cut bars using equipment thoroughly cleaned or otherwise modified to prevent contamination from carbon steel or other contaminants. Use tools dedicated solely to working with stainless steel.

B.3 Control of Material

Identify reinforcement bars delivered to the project site with tags bearing the identification symbols used in the plans. Include the UNS designation, heat treat condition, heat number, grade corresponding to minimum yield strength level, and sufficient documentation to track each bar bundle to a mill test report.

Provide samples for department testing and acceptance according to CMM 8-50 Exhibit 1 requirements for concrete masonry reinforcement for uncoated bar steel.

Provide mill test reports for the project that do the following:

1. Verify that sampling and testing procedures and test results conform to ASTM A955, ASTM A276 table 1, and these contract requirements.
2. Include a chemical analysis with the UNS designation, heat lot identification, and the source of the metal.
3. Include tensile strength, yield strength, and elongation tests results conforming to ASTM A955 for each size furnished.
4. Certify that the bars have been pickled to a bright or uniform light finish.

C Construction

C.1 General

Ship, handle, store, and place the stainless steel reinforcing as follows:

1. Separate from regular reinforcement during shipping. Pad points of contact with steel chains or banding, or secure with non-metallic straps.
2. Store on wooden cribbing separated from regular reinforcement. Cover with tarpaulins if stored outside.
3. Handle with non-metallic slings.
4. Do not flame cut or weld. Protect from contamination when cutting, grinding, or welding other steel products above or near the stainless steel during construction.
5. Place on plastic or stainless steel bar chairs. If placing stainless steel chairs on steel beams, use chairs with plastic-coated feet.
6. Tie with stainless steel wire or an engineer-approved plastic or nonmetallic material.

Do not tie stainless steel reinforcing bars to, or allow contact with, uncoated reinforcing bars or galvanized steel. Maintain at least 1 inch clearance between stainless steel bars or dowels and uncoated or galvanized steel. Where 1 inch clearance is not possible, sleeve bars with a continuous polyethylene or nylon tube at least 1/8 inch thick extending at least 1 inch in each direction and bind with nylon or polypropylene cable ties. Sleeves are not required between stainless steel bars and shear studs. Stainless steel bars can be in direct contact with undamaged epoxy-coated bars.

Cut flush with the top flange or remove uncoated fasteners, anchors, lifting loops, or other protrusions into a bridge deck before casting the deck on prestressed concrete beams.

C.2 Splices

Splice as the plans show. Provide stainless steel couplers conforming to the minimum capacity, certification, proof testing, and written approval requirements of standard spec 550.3.3.4. The contractor may substitute stainless steel couplers for lap splices the plans show if the engineer approves in writing.

If increasing or altering the number or type of bar splices the plans show, provide revised plan sheets to the engineer showing the reinforcement layout, type, length, and location of revised bar splices and revised bar lengths. Obtain engineer approval for the location of new lap splices or substitution of mechanical bar couplers before fabrication. Ensure that new lap splices are at least as long as those the plans show.

D Measurement

The department will measure Bar Steel Reinforcement HS Stainless Structures by the pound, acceptably completed, computed from the nominal weights of corresponding sizes for carbon steel deformed bars in AASHTO M31 regardless of stainless steel alloy provided. The department will not measure extra

material used if the contractor alters the reinforcement layout as allowed under C.2, extra material for splices or couplers the plans do not show, or the weight of devices used to support or fasten the steel in position.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB

Payment for Bar Steel Reinforcement HS Stainless Structures is full compensation for furnishing and placing stainless steel reinforcing bars, including supports. Where the plans specify bar couplers, the department will pay for the length of bars as detailed with no deduction or increase for installation of the coupler.

stp-505-005 (20190618)

41. Polymer Overlay, Item 509.5100.S.

A Description

This special provision describes providing two layers of a two-component polymer overlay system to the bridge decks the plans show.

B Materials

B.1 General

Furnish materials specifically designed for use over concrete bridge decks. Furnish polymer liquid binders from the department's approved product list.

B.2 Polymer Resin

Furnish a polymer resin base and hardener composed of two-component, 100 percent solids, 100 percent reactive, thermosetting compound with the following properties:

Property	Requirements	Test Method
Gel Time ^[1]	15 - 45 minutes @ 73° to 75° F	ASTM C881
Viscosity ^[1]	7 - 70 poises	ASTM D2393, Brookfield RVT, Spindle No. 3, 20 rpm
Shore D Hardness ^[2]	60-75	ASTM D2240
Absorption ^[2]	1% maximum at 24 hr	ASTM D570
Tensile Elongation ^[2]	30% - 70% @ 7 days	ASTM D638
Tensile Strength ^[2]	2000 to 5000 psi @ 7 days	ASTM D638
Chloride Permeability ^[2]	<100 coulombs @ 28 days	AASHTO T277

^[1] Uncured, mixed polymer binder

^[2] Cured, mixed polymer binder

Ensure that the polymer resin when mixed with aggregate has the following properties:

Property	Requirement ^[1]	Test Method
Minimum Compressive Strength	1,000 psi @ 8 hrs 5,000 psi @ 24 hrs	ASTM C579 Method B, Modified ^[2]
Thermal Compatibility	No Delaminations	ASTM C884
Minimum Pull-off Strength	250 psi @ 24 hrs	ASTM C1583

^[1] Based on samples cured or aged and tested at 75°F

^[2] Plastic inserts that will provide 2-inch by 2-inch cubes shall be placed in the oversized brass molds.

B.3 Aggregates

Furnish natural or synthetic aggregate that is non-polishing; clean; free of surface moisture; fractured or angular in shape; free from silt, clay, asphalt, or other organic materials; and conform to the following:

Aggregate Properties

Property	Requirement	Test Method
Moisture Content ^[1]	1/2 of the measured aggregate absorption, %	ASTM C566
Hardness	≥6.5	Mohs Scale
Fractured Faces	100% with at least 1 fractured face & 80% with at least 2 fractured faces of material retained on No.16	ASTM D5821
Absorption	≤1%	ASTM C128

^[1] Sampled and tested by the department before placement.

Gradation

Sieve Size	% Passing by Weight
No. 4	100
No. 8	30 – 75
No. 16	0 – 5
No. 30	0 – 1

B.4 Approval of Bridge Deck Polymer Overlay System

A minimum of 20 working days before application, submit product data sheets and specifications from the manufacturer, and a certified report of test or analysis from an independent laboratory to the engineer for approval. The department will sample and test the aggregates for gradation and moisture content before placement. If requested, supply the department with samples of the polymer for the purpose of acceptance testing.

B.4.1 Product Data Sheets and Specifications

Product data sheets and specifications from the manufacture consists of literature from the manufacturer showing general instructions, application recommendations/methods, product properties, general instructions, or any other applicable information.

B.4.2 Certified Report of Test or Analysis

Conform to the following:

Polymer Binder: Submit a certified report of test or analysis from an independent laboratory dated less than 3 years before the date of the project letting showing the polymer binder meets the requirements of section B.2.

Aggregates: Submit a certified report of test or analysis from an independent laboratory dated less than 6 months before the date of the project letting showing the aggregates meet the requirements of section B.3.

C Construction

C.1 General

Ensure that the overlay system is 1/4 inch thick or thicker.

Conform to the following:

Field Review: Conduct a field review of the existing deck to identify any possible surface preparation and material compatibility issues.

Pre-Installation Meeting: Conduct a pre-installation meeting with the manufacturer's representative and the engineer before construction. Discuss the field review findings, verification testing of the surface preparation and establish procedures for maintaining optimum working conditions and coordination of work. Furnish the engineer a copy of the recommended procedures and apply the overlay system according to the manufacturer's instructions. Supply for the engineer's use for the duration of the project, a Concrete Surface Profile (CSP) chip set of 10 from the International Concrete Repair Institute (ICRI).

Manufacturer's Representative: An experienced manufacturer's representative familiar with the overlay system installation procedures shall be present at all times during surface preparation and overlay placement to provide quality assurance that the work is being performed properly. This requirement may be reduced at the engineer's discretion.

Material Storage: Store and handle materials according to the manufacturer's recommendations. Store resin materials in their original containers in a dry area. Store all aggregates in a dry environment and protect aggregates from contaminants on the job site.

C.2 Deck Preparation

C.2.1 Deck Repair

Remove all asphaltic patches and unsound or disintegrated areas of the concrete decks as the plans show, or as the engineer directs. Work performed to remove and repair the concrete deck will be paid for under other items.

Use deck patching products that are compatible with the overlay system. Patching materials with magnesium phosphate shall not be used. Place patches after surface is prepared via shot blasting and cleaning as described in Section C.2.2 of this specification. Portland cement concrete patches shall be used for joint repairs and full depth deck repairs with a plan area larger than 4 sf, unless approved otherwise by the Structures Design Section. If rapid-set concrete is used, place patches per the manufacturer's recommendation. If Portland cement concrete is used, place patches per standard spec 509.3.9.1.

Deck patching shall be filled and properly finished prior to overlay placement. Do not place overlay less than 1 hour, or per the manufacturer's recommendation, after placing rapid-set concrete patches in the repair areas. Do not place overlay less than 28 days after placing Portland cement concrete patches in the repair areas.

C.2.2 Surface Preparation

Determine an acceptable shotblasting machine operation (size of shot, flow of shot, forward speed, and/or number of passes) that provides a surface profile meeting CSP 5 (medium-heavy shotblast) according to the ICRI Technical Guideline No. 310.2. If the engineer requires additional verification of the surface preparation, test the tensile bond strength according to ASTM C1593. The surface preparation will be considered acceptable if the tensile bond strength is greater than or equal to 250 psi or the failure area at a depth of 1/4 inches or more is greater than 50 percent of the test area. Continue adjustment of the shotblasting machine and necessary testing until the surface is acceptable to the engineer or a passing test result is obtained.

Prepare the entire deck using the final accepted adjustments to the shotblasting machine as determined above. Thoroughly blast clean with hand-held equipment any areas inaccessible by the shotblasting equipment. Do not perform surface preparation more than 24 hours before the application of the overlay system.

Protect drains, expansion joints, access hatches, or other appurtenances on the deck from damage by the shot and sand blasting operations and from materials adhering and entering. Tape or form all construction joints to provide a clean straight edge.

Before shot blasting, remove pavement markings within the treatment area using an approved mechanical or blasting method.

Prepare the vertical concrete surfaces adjacent to the deck a minimum of 2" above the overlay according to SSPC-SP 13 (free of contaminants, dust, and loose concrete) by sand blasting, using wire wheels, or other approved method.

Just before overlay placement, clean all dust, debris, and concrete fines from the prepared surfaces including the vertical surfaces with compressed air. When using compressed air, the air stream must be free of oil. Any grease, oil, or other foreign matter that rests on or has absorbed into the concrete shall be removed completely. If prepared surfaces (including the first layer of the polymer overlay) are exposed to rain or dew, lightly sandblast (brush/breeze blast) the exposed surfaces.

The engineer may consider alternate surface preparation methods per the overlay system manufacturer's recommendations. The engineer will approve the final surface profile and deck cleanliness before the contractor placing the polymer overlay.

C.2.3 Transitional Area

If the plans show, create a transitional area approaching transverse expansion joints and ends of the deck using an approved mechanical or blasting method. Remove 1/4 inch to 5/16 inch of concrete adjacent to the joint or end of deck and taper a distance of 3 feet.

If the plans show, create a transitional area on the approach pavement. Prep and place the first lift 3 feet beyond the end of the deck the same width as the deck. Prep and place the second lift 6 feet beyond the end of the deck the same width as the deck.

C.3 Overlay Application

Perform the handling and mixing of the polymer resin and hardening agent in a safe manner to achieve the desired results according to the manufacturer's instructions. Do not apply the overlay system if any of the following exists:

- Ambient air temperature is below 50 F or above 100 F.
- Deck temperature is below 50 F.
- Moisture content in the deck exceeds 4.5 percent when measured by an electronic moisture meter or shows visible moisture after 2 hours when measured in accordance with ASTM D4263.
- Rain is forecasted during the minimum curing periods listed under C.5.
- Materials component temperatures below 65 F or above 99 F.
- Concrete deck age is less than 28 days.
- The deck temperature exceeds 100 F.
- If the gel time is 10 minutes or less at the predicted high air temperature for the day.

After the deck has been shotblasted or during the overlay curing period, only necessary surface preparation and overlay application equipment will be allowed on the deck. Provide appropriate protective measures to prevent contamination from equipment allowed on the deck during preparation and application operations. Begin overlay placement as soon as possible after surface preparation operations.

The polymer overlay shall consist of a two-course application of polymer and aggregate. Each of the two courses shall consist of a layer of polymer covered with a layer of aggregate in sufficient quantity to completely cover the polymer. Apply the polymer and aggregate according to the manufacturer's requirements. Apply the overlay using equipment designed for this purpose. The application machine shall feature positive displacement volumetric metering and be capable of storing and mixing the polymer resins at the proper mix ratio. Disperse the aggregate using a method that provides a uniform, consistent coverage of aggregate and minimizes aggregate rolling or bouncing into final position. First course applications that do not receive enough aggregate before the polymer gels shall be removed and replaced. A second course applied with insufficient aggregate may be left in place, but will require additional applications before opening to traffic.

After completion of each course, cure the overlay according to the manufacturer's instructions. Follow the minimum cure times listed under C.5 or as prescribed by the manufacturer. Remove the excess aggregate from the surface treatment by sweeping, blowing, or vacuuming without tearing or damaging the surface; the material may be re-used if approved by the engineer and manufacturer. Apply all courses of the overlay system before opening the area to traffic. Do not allow equipment or traffic on the treated area until directed by the engineer.

After the first layer of coating has cured to the point where the aggregate cannot be pulled out, apply the second layer. Before applying the second layer, broom and blow off the first layer with compressed air to remove all loose excess aggregate.

Before opening to traffic, clean expansion joints and joint seals of all debris and polymer. A minimum of 3 days following opening to traffic, remove loosened aggregates from the deck, expansion joints, and approach pavement.

C.4 Application Rates

Apply the polymer overlay in two separate courses in accordance with the manufacturer's instructions, but not less than the following rate of application.

Course	Minimum Polymer Rate ^[1] (GAL/100 SF)	Aggregate ^[2] (LBS/SY)
1	2.5	10+
2	5.0	14+

^[1] The minimum total applications rate is 7.5 GAL/100 SF.

^[2] Application of aggregate shall be of sufficient quantity to completely cover the polymer.

C.5 Minimum Curing Periods

As a minimum, cure the coating as follows:

Course	Average temperature of deck, polymer and aggregate components in degrees F							
	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99
1	6 hrs.	5 hrs.	4 hrs.	3 hrs.	2.5 hrs	2 hrs	1.5 hrs.	1 hr.
2	8 hrs.	6.5 hrs.	6.5 hrs.	5 hrs.	4 hrs.	3 hrs.	3 hrs.	3 hrs.

If faster cure times are desired and achievable, submit to the engineer a certified test report from an independent laboratory showing the material is able to reach a compressive strength of 1000 psi as tested per ASTM C 579 Method B within the temperature ranges and cure times for which the product is proposed to be placed. Establish ambient air, material, and substrate temperatures from the manufacturer for field applications. Field applications will not be allowed below the documented temperatures.

C.6 Repair of Polymer Overlay

Repair all areas of unbonded, uncured, or damaged polymer overlay for no additional compensation. Submit repair procedures from the manufacturer to the engineer for approval. Absent a manufacturer's repair procedures and with the approval of the engineer, complete repairs according to the following: Saw cut the limits of the area to the top of the concrete; remove the overlay by scarifying, grinding, or other approved methods; shot blast or sand blast and air blast the concrete before placement of polymer overlay; and place the polymer overlay according to section C.3.

D Measurement

The department will measure Polymer Overlay by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.5100.S	Polymer Overlay	SY

Payment is full compensation for preparing the surface; for tensile bond testing; for creating the transitional area; for providing the overlay; for cleanup; and for sweeping/vacuuming and disposing of excess materials.

The department will pay separately for deck repairs.

stp-509-030 (20200629)

42. **Concrete Staining R-13-379, Item 517.1010.S.01;
Concrete Staining R-13-380, Item 517.1010.S.02;
Concrete Staining R-13-381, Item 517.1010.S.03;
Concrete Staining R-13-382, Item 517.1010.S.04;
Concrete Staining R-13-383, Item 517.1010.S.05;
Concrete Staining R-13-384, Item 517.1010.S.06;
Concrete Staining R-13-15, Item 517.1010.S.07.**

A Description

This special provision describes providing a two coat concrete stain on the exposed concrete surfaces of structures as the plans show.

B Materials

B.1 Mortar

Use mortar for sack rubbing the concrete surfaces as given in standard spec 502.3.7.5 or use one of the following products:

Preblended, Packaged Type II Cement:	Tri-Mix by TK Products
	Thoroseal Pearl Gray by Thoro Products

The mortar shall contain one of the following acrylic bonding admixtures mixed and applied according to manufacturer's recommendations:

Acrylic Bonding Admixture:	TK-225 by TK Products
	Achro 60 by Thoro Products
	Achro Set by Master Builders

B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces, consisting of a base coat and a pigmented sealer finish coat. Use the following products, or equal as approved by the department, as part of the two coat finish system:

Tri-Sheen Concrete Surfacers, Smooth by TK Products
Tri-Sheen Acrylic by TK Products
TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products
Safe-Cure & Seal EPX by Chem Masters
H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

C Construction

C.1 General

Furnish, prepare, apply, cure, and store all materials according to the product manufacturer's specifications for the type and condition of application required.

Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, before staining.

C.2 Preparation of Concrete Surfaces

Provide a sack rubbed finish as specified in standard spec 502.3.7.5, using mortar as indicated above on concrete surfaces with open voids or honeycombing.

Following the sack rubbing, clean all concrete surfaces that are to be coated to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, and any foreign material and that the surface will accept the coating material according to product requirements. As a minimum, clean the surface using a 3000-psi water blast. Hold the nozzle of the water blaster approximately 6 inches from the concrete surface and move it continuously in a sweeping motion. Give special attention to smooth concrete surfaces to produce an acceptable surface texture. Correct any surface problems resulting from the surface preparation methods. Grit blasting of the concrete surface is not allowed.

C.3 Staining Concrete Surfaces

Apply the concrete stain according to the manufacturer's recommendations.

Apply the concrete stain when the temperature of the concrete surface is 45° F or higher, or as given by the manufacturer.

The color of the stain shall be as given on the plan. Tint the base coat to match the finish coat; the two coats shall be compatible with each other.

Do not begin staining the structure until earthwork operations are completed to a point where this work can begin without receiving damage. Where this work is adjacent to exposed soil or pavement areas, provide temporary covering protection from overspray or splatter.

C.4 Test Areas

Before applying stain to the structure, apply the stain to sample panels measuring a minimum of 48 inches x 48 inches and constructed to demonstrate workmanship in the use of the form liner specified on the structure if applicable. Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, before staining. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between the stones produced by the form liner if applicable. Do not apply stain to the structure until the department approves the test panels.

C.5 Surfaces to be Coated.

Apply concrete stain to the surfaces according to the plan.

D Measurement

The department will measure Concrete Staining (structure number) in area by the square foot of surface, acceptably prepared and stained.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1010.S.01	Concrete Staining R-13-379	SF
517.1010.S.02	Concrete Staining R-13-380	SF
517.1010.S.03	Concrete Staining R-13-381	SF
517.1010.S.04	Concrete Staining R-13-382	SF
517.1010.S.05	Concrete Staining R-13-383	SF
517.1010.S.06	Concrete Staining R-13-384	SF
517.1010.S.07	Concrete Staining R-13-15	SF

Payment is full compensation for furnishing and applying the two coat system; for preparing the concrete surface; and for preparing the sample panels.

stp-517-110 (20140630)

43. Architectural Surface Treatment R-13-379, Item 517.1050.S.01; Architectural Surface Treatment R-13-380, Item 517.1050.S.02; Architectural Surface Treatment R-13-381, Item 517.1050.S.03; Architectural Surface Treatment R-13-382, Item 517.1050.S.04; Architectural Surface Treatment R-13-383, Item 517.1050.S.05; Architectural Surface Treatment R-13-384, Item 517.1050.S.06.

A Description

This special provision describes providing concrete masonry architectural surface treatment on the exposed concrete surfaces of structures as the plan details show.

B Materials

Use form liners that attach easily to the forming system, and do not compress more than 1/4 inch when poured at a rate of 10 vertical feet/hour.

Use a release agent that is compatible with the form liner and coloring materials.

Wall ties shall have set "break-backs" at a minimum of 3/4 inches from the finished concrete surface.

C Construction

C.1 Equipment

Equipment and tools necessary for performing all parts of the work shall be satisfactory as to design, capacity, and mechanical condition for the purposes intended. Repair, improve, replace, or supplement all equipment that is not maintained in full working order, or which is proven inadequate to obtain the results prescribed.

C.2 Form Liner Preparation

Clean the form liner before each pour and ensure that it is free of any build-up. Visually inspect each liner for blemishes or tears, and repair if necessary, per manufacturer's recommendations.

Apply form release per manufacturer's recommendations.

C.3 Form Liner Attachment

Place adjacent liners less than 1/4 inch from each other, attach liner securely to forms according to the manufacturer's recommendations, and coordinate wall ties with form liner and form manufacturer, e.g., diameter, size, and frequency.

C.4 Surface Finishing

Ensure that the textured surface is free of laitance; sandblasting is not permitted.

Grind or fill pouring blemishes.

D Measurement

The department will measure Architectural Surface Treatment (structure number) in area by the square foot of architectural surface, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S.01	Architectural Surface Treatment R-13-379	SF
517.1050.S.02	Architectural Surface Treatment R-13-380	SF
517.1050.S.03	Architectural Surface Treatment R-13-381	SF
517.1050.S.04	Architectural Surface Treatment R-13-382	SF
517.1050.S.05	Architectural Surface Treatment R-13-383	SF
517.1050.S.06	Architectural Surface Treatment R-13-384	SF

Payment is full compensation for producing the proposed architectural surface treatment including: preparing the foundation; finishing and protecting the surface treatment; and for properly disposing of surplus material.

stp-517-150 (20110615)

44. Precast Panels for Soldier Pile Walls, Item 542.1000.S.

A Description

This special provision describes fabricating, furnishing, transporting and erecting precast concrete panels for soldier pile walls.

B Materials

B.1 General

Furnish precast panels that conform to the plan details.

Furnish steel reinforcement conforming to standard spec 505.

Furnish grade A air-entrained concrete conforming to standard spec 501.

B.2 Plant Certification

Obtain all precast concrete panels from fabrication plants that comply with the department's plant certification program in standard spec 106.3.3.3.1.

C Construction

C.1 General

Before fabricating panels, verify that no field modifications were made to the top of footing elevations. Field modifications will require adjustments to the panel heights listed on the plans.

C.2 Placing Concrete

Handle and place the concrete conforming to standard spec 502.3.5.

C.3 Curing

Cure the concrete panels by any of the methods specified in standard spec 502.3.8.

C.4 Transportation, Storage, and Erection

Transport, handle, store, and erect precast panels in a way that prevents cracking or other damage to the panels. Discard and replace units damaged by improper handling or storing.

D Measurement

The department will measure Precast Panels for Soldier Pile Walls by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
542.1000.S	Precast Panels for Soldier Pile Walls	SF

Payment is full compensation for furnishing all materials; for fabricating; for all handling, hauling and erecting; and for discarding and replacing units damaged by improper handling or storage.

stp-542-040 (20210708)

45. Cover Plates Temporary, Item 611.8120.S.

A Description

This special provision describes providing and removing steel plates to cover and support asphaltic pavement and traffic loading at manholes, inlets and similar structures during milling and paving operations.

B Materials

Provide a 0.25 inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

C (Vacant)

D Measurement

The department will measure Cover Plates Temporary as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	EACH

Payment is full compensation for furnishing, installing, and removing the cover plates.

The steel plates shall become the property of the contractor when no longer needed in the contract work.

stp-611-006 (20151210)

- 46. Pipe Grates 24-Inch, Item 611.9850.S.01;
Pipe Grates 36-Inch, Item 611.9850.S.02;
Pipe Grates 29x45-Inch, Item 611.9850.S.03;
Pipe Grates 34x53-Inch, Item 611.9850.S.04;
Pipe Grates 38x60-Inch, Item 611.9850.S.05.**

A Description

This special provision describes providing pipe grates for pipe apron endwalls as detailed in the plans.

B Materials

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel pipe conforming to the requirements of standard spec 506.2.3.6.

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction

Repair pipes, rods, angles and brackets on which the galvanized coating has been damaged according to the requirements of AASHTO M36.

D Measurement

The department will measure Pipe Grates in units of work, where one unit is one grate, completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.9850.S.01	Pipe Grates 24-Inch	EACH
611.9850.S.02	Pipe Grates 36-Inch	EACH
611.9850.S.03	Pipe Grates 29x45-Inch	EACH
611.9850.S.04	Pipe Grates 34x53-Inch	EACH
611.9850.S.05	Pipe Grates 38x60-Inch	EACH

Payment is full compensation for furnishing and installing all materials; and for drilling and connecting grates to apron endwalls.

stp-611-010 (20230113)

- 47. Fence Safety, Item 616.0700.S.**

A Description

This special provision describes providing plastic fence at locations the plans show.

B Materials

Furnish notched conventional metal "T" or "U" shaped fence posts.

Furnish fence fabric meeting the following requirements.

Color: International orange (UV stabilized)
Roll Height: 4 feet
Mesh Opening: 1 inch min to 3 inch max
Resin/Construction: High density polyethylene mesh
Tensile Yield: Avg. 2000 lb per 4 ft. width (ASTM D638)
Ultimate Tensile Strength: Avg. 3000 lb per 4 ft. width (ASTM D638)
Elongation at Break (%): Greater than 100% (ASTM D638)
Chemical Resistance: Inert to most chemicals and acids

C Construction

Drive posts into the ground 12 to 18 inches. Space posts at 7 feet.

Use a minimum of three wire ties to secure the fence at each post. Weave tension wire through the top row of strands to provide a top stringer that prevents sagging.

Overlap two rolls at a post and secure with wire ties.

D Measurement

The department will measure Fence Safety by the linear foot along the base of the fence, center-to-center of posts, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

Payment is full compensation for furnishing and installing fence and posts; maintaining the fence and posts in satisfactory condition; and for removing and disposing of fence and posts at project completion.

stp-616-030 (20160607)

48. Foundation Drilling 30-Inch Diameter, Item 636.0050.S.

A Description

This special provision describes drilling holes for the H pile posts for retaining walls.

B (Vacant)

C Construction

Submit the proposed method for foundation drilling before beginning construction.

Drill holes to the diameter and depth the plans show. If necessary, use casing or alternative engineer-approved methods to maintain an open hole. If bentonite or other slurry is used to maintain an open hole, prevent spillage of the slurry into adjacent waterways. Locate the holes within the following tolerances:

Horizontal Location: 3 inches
 Vertical Location: 1 inch
 Vertical Alignment: 1/8 inch per foot

D Measurement

The department will measure the Foundation Drilling 30-Inch Diameter by the linear foot, acceptably completed, measured from the bottom of the hole to the top of the foundation footing.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
636.0050.S	Foundation Drilling 30-Inch Diameter	LF

Payment is full compensation for drilling holes; for furnishing casing or alternative drilling methods; and, if rock is encountered, for coring rock.

stp-636-010 (20140630)

49. Foundation Drilling 42-Inch Diameter, Item 636.0050.S.

A Description

This special provision describes drilling holes for the H pile posts for retaining walls.

B (Vacant)

C Construction

Submit the proposed method for foundation drilling before beginning construction.

Drill holes to the diameter and depth the plans show. If necessary, use casing or alternative engineer-approved methods to maintain an open hole. If bentonite or other slurry is used to maintain an open hole, prevent spillage of the slurry into adjacent waterways. Locate the holes within the following tolerances:

Horizontal Location:	3 inches
Vertical Location:	1 inch
Vertical Alignment:	1/8 inch per foot

D Measurement

The department will measure the Foundation Drilling 42-Inch Diameter by the linear foot, acceptably completed, measured from the bottom of the hole to the top of the foundation footing.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
636.0050.S	Foundation Drilling 42-Inch Diameter	LF

Payment is full compensation for drilling holes; for furnishing casing or alternative drilling methods; and, if rock is encountered, for coring rock.

stp-636-010 (20140630)

50. Temporary Audible Message Devices, Item 644.1900.S.

A Description

This special provision describes providing, maintaining, and removing temporary audible message devices. These devices are used on temporary pedestrian facilities to guide individuals with sight disabilities.

B Materials

Furnish temporary audible message devices from the approved products lists.

C Construction

Provide and maintain temporary audible message device. Maintain and repair devices within two hours of being notified by the project engineer of an issue.

contractors record messages as approved by the engineer.

Mount temporary audible message devices on drums, temporary sign supports, or other locations approved by the engineer. Locate motion detection areas that will be effective in activating the device to operate properly. Avoid locating motion detection areas that will cause activation by trees, traffic, or other known regular activity.

Move and adjust devices after disruptions by the work or the public.

Maintain devices in a working condition and replace batteries as needed. Replace any devices that are not working properly within 2 hours of being notified of an issue.

Use tamper-proof hardware for mounting.

D Measurement

The department will measure temporary audible message devices by the day, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
644.1900.S.	Temporary Audible Message Device	DAY

Payment is full compensation for providing, maintaining, and removing temporary audible message device.

The department will not pay for devices that are inoperable.

stp-644-190 (20250108)

51. General Provisions for Village of McFarland Conduit Installation.

Add to standard spec 652:

Use Schedule 80 conduit under all traffic areas.

Install all conduit at a minimum depth of 30 inches, unless otherwise approved by the engineer. Solvent weld all joints. Mark the location of each conduit, where conduit crosses traffic areas, by a permanent chiseled arrow or other appropriate permanent stamp in top of the curb head.

Install and connect all conduit to the concrete bases, manholes, handholes (pull boxes), existing conduit, or conduit elbows so as to provide a continuous network, unless otherwise indicated on the plan. All connections shall be watertight. Do not install drainage holes in conduit. Uncover the ends or mid-sections of all existing conduit that is being extended by or incorporated into this project work.

When connections are to be made to an existing conduit, first verify that the existing conduit is fully clear and useable for its entire cross-section and length. When the existing conduit is found to be defective, notify the engineer and do not proceed until the engineer so directs. If the contractor connects to an existing defective conduit without the express direction from the engineer, make any and all necessary repairs and replacements to all conduits, including conduit that was "existing" prior to the contractor starting work and to the satisfaction of the engineer. All costs of this work shall be at the expense of the contractor.

Turn up conduits terminating in a non-paved location and not in a structure, and end at terrace finish grade with a PVC cap securely attached, per duct termination detail. Where conduit runs parallel to curb and gutter, place the conduit within 12 inches of the back of the curb, except as directed by the engineer. The engineer will determine termination points not within pull boxes or concrete bases.

Unless the contract provides for installation of cable, cap the ends of each run of conduit with standard conduit caps or otherwise appropriately plug the ends to preclude infiltration of water and soil. Install a pull wire in each conduit, except those with only streetlight wire. A pull wire shall be approximately 4 feet longer than the conduit run, and shall be doubled back for at least 2 feet at each terminal. The pull wire shall be #10 AWG copper, stranded, with THHN insulation and green color coding. Install the pull wire within seven days of completing a conduit installation from structure-to-structure.

Use a 6-inch minimum sand padding below the conduit and a 6-inch minimum sand lift above the conduit. Do not backfill trench with any rocks larger than 4 inches in diameter or any foreign debris.

52. Lamp, Ballast, LED, Switch Disposal by contractor, Item 659.5000.S.

A Description

This special provision describes the detachment and packaging of lamps, ballasts, LEDs, and mercury containing switches (e.g., overhead roadway lighting, underdeck bridge, wall packs, pedestrian signals, traffic control stop lights and warning flashers, fluorescent bulbs, and thermostats) removed under this contract for disposal as hazardous materials.

For Lamp, Ballast, LED, Switch Disposal by contractor, coordinate removal from the work site by the department's hazardous waste disposal vendor. Disposal will be billed to the department by the hazardous waste disposal vendor.

B Materials

B.1 Disposal by Contractor

Items removed under this contract will be considered the property of the department for waste generator identification. The contractor is responsible for coordinating with the department's hazardous waste vendor for disposal:

<https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/environment/hazwaste-contacts.pdf>

C Construction

C.1 Removal

Arrange for the de-energizing of luminaires after receiving approval from the engineer that the existing luminaires can be removed. Do not remove luminaires that cannot be replaced with proposed LED units and operational within the same workday. The new LED units need to be operational prior to sunset of the same workday.

Detach and remove luminaires and lamps from the existing traffic signal poles or respective structure. Avoid breaking fixtures whenever possible.

Lamps, ballasts, LED, and switches will become property of the department, and will be disposed of in an environmentally sound manner.

C.2 Packaging of Hazardous Materials

Provide a secure, level location removed from the travelled way for storage of the material for disposal.

Pack intact fixtures in the packaging of the new lamps used to replace them, or packaging affording the equivalent protection. Place in full, closed stackable cartons.

Pile cartons no more than four high if palletized and secure cartons with shrink wrap to prevent shifting or falling of the loads. Clearly mark each pallet with the words "Universal Waste Lamps" or "Universal Waste Ballasts", the date, and the number of fixtures on each pallet.

Pack broken fixtures into (min.) 6 mil thick plastic bags and place inside sturdy cardboard boxes or the equivalent. Mark the outer packaging with the term "Broken Fixtures/Lamps", the date and the number of broken fixtures clearly marked on the box.

The hazardous waste vendor will not accept fixtures improperly packaged. The vendor will reject any fixtures not removed as part of a contract pay item or otherwise required under this contract.

Pack ballasts and mercury containing switches in appropriate containers.

C.3 Disposal by contractor

Complete the lamp and ballast inventory (<https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/environment/dotlampballastinventory.dotx>) and contact the hazardous waste vendor to coordinate pickup and disposal at a location specified by the contractor. Consolidate all pallets and boxes from one project at a single location. Contact the hazardous waste vendor to set up an appointment for pickup. The hazardous waste vendor requires a minimum of one week advance notice to schedule pickup.

D Measurement

The department will measure Lamp, Ballast, LED, Switch Disposal by contractor as each individual unit removed and received by the hazardous waste vendor, properly packaged and acceptably completed, matching the total number of units provided on the inventory form. The department will not measure broken fixtures that exceed a total of 10 percent of all fixtures to be disposed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
659.5000.S	Lamp, Ballast, LED, Switch Disposal by contractor	EACH

Payment for Lamp, Ballast, LED, Switch Disposal by contractor is full compensation for detachment, handling, packaging, labeling and scheduling disposal with the hazardous waste vendor; and scrapping and disposal of all other materials.

stp-659-500 (20220628)

53. Seismograph 5845-16-76, Item 999.1001.S.01.

A Description

This special provision describes furnishing seismographs and employing trained operators to monitor construction-induced vibrations on structures, and submittal of all required documentation.

B Material

Use seismographs conforming to Wisconsin Department of Safety and Professional Services (SPS) 307.43, Wisconsin Administrative Code that are continuous data recorders supplied with all the accessories necessary for making vibration and noise monitoring observations.

C Construction

Conduct monitoring procedures conforming to SPS 307.44 and as follows: Take seismograph readings before construction activities to establish an ambient or background index.

During construction, place seismographs to monitor all vibration-inducing construction activities or as the engineer directs. At a minimum utilize one seismograph. If more than one major construction activity per day is taking place, multiple seismographs shall be required. The number of seismographs is to be defined for this project by the engineer. Place seismographs on a stable surface within 3 feet of the structure nearest to the construction operation. Provide data recorded for each vibration occurrence to the engineer which includes the following:

1. Identification of vibration monitoring instrument used.
2. Description of equipment used by the contractor.
3. Name of qualified observer and interpreter.
4. Distance and direction of recording station from the vibration area.
5. Type of ground at recording station and material on which the instrument is sitting.
6. Peak particle velocity and principal frequency in each component.
7. A dated and signed copy of records of seismograph readings.
8. A comparison of measured seismograph readings to maximum allowable readings identified in SPS 307.43 or as specified in this special provision.

If construction activities generate ground vibration in excess of the peak particle velocity limits as shown in SPS 307.44, stop the construction operation in progress and implement alternate construction methods to produce results within the allowable peak particle velocity limits.

D Measurement

The department will measure Seismograph as a single unit of work for each project, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1001.S.01	Seismograph 5845-16-76	EACH

Payment is full compensation for furnishing and operating seismographs, operators, and for producing documentation reports

stp-999-005

54. Crack and Damage Survey, Item 999.1501.S.

A Description

This special provision describes conducting a crack and damage survey of the following structures:

1. Babcock Park Lock and Dam

This Crack and Damage Survey shall consist of two parts. The first part, performed before construction activities, shall include a visual inspection, digital images, and a written report describing the existing defects in the structure being inspected. The second part, performed after the construction activities, shall also include a visual inspection, digital images, and written report describing any change in the structure's condition.

B (Vacant)**C Construction**

Before any construction activities, thoroughly inspect the structure for existing defects, including inspection of underwater elements in conjunction with the initial and final underwater substructure inspections. Electronically submit a written report with the inspector's name, date of inspection, descriptions and locations of defects, and digital images. The intent of the written report and digital images is to procure a record of the general physical condition of the structure's superstructure and substructure.

Use a digital camera capable of producing sharp, grain free, high-contrast colored digital images with good shadow details. Label each digital image with the following information:

ID: _____
Structure Location: _____
View looking: _____
Date: _____
Photographer: _____

Before the start of any construction activities related to this survey, submit a copy of the written report and digital images to the engineer electronically.

After the construction activities are complete, conduct another survey in the same manner, take digital images, and submit another written report to the engineer electronically.

Instead of digital images, a digital video camera capable of producing sharp, high contrast, colored digital video with good shadow detail may be used to perform this work.

D Measurement

The department will measure Crack and Damage Survey as single unit for each location, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1501.S	Crack and Damage Survey	EACH

Payment is full compensation for providing the before and after written reports, and for photographs or video.

stp-999-010

55. Decomposed Granite Paving, Item SPV.0035.001.**A Description**

This special provision describes decomposed granite paving within the roundabout center landscape area at the location as shown on the plans and as provided for by these specifications.

B Materials

Furnish stabilized crushed aggregate paving, consisting of sound, angular, durable particles. Gradation, in accordance with ASTM C136:

Optimal Gradation		
Sieve	Sieve Size (mm)	Percent Passing
4	4.75	80%-100%
8	2.36	65% - 90%
16	1.18	40% - 65%
30	0.6	25% - 55%
50	0.3	15% - 35%
100	0.15	10% - 20%
200	0.075	5% - 15%

Organic-Lock Binder: powdered organic binder designed to be blended with crushed aggregate, made from 100% naturally occurring materials.

C Construction

Prepare the subgrade by excavating the area to the dept required so that finish grade can be established as noted on plans. Compact to 95% Modified Proctor Density.

Prepare the base aggregate, dense ¾-inch, compacted to 95% Modified Proctor Density.

Spread the loose and uncompacted stabilized aggregate paving over the compacted base material to 2" minimum depth.

Compact materials by making 4-6 passes using a 1-ton double or single static drub roller, or equivalent. Compact material to 95% Proctor Density.

Apply a light spray to the surface of the material to give a clean appearance. Apply water until the water begins to run-off. Do not allow traffic on the newly installed decomposed granite paving until fully cured, a minimum of 24-72 hours.

D Measurement

The department will measure Decomposed Granite Paving by the cubic yard successfully completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.001	Decomposed Granite Paving	CY

Payment is full compensation for furnishing and installing all materials, excavating and backfilling where necessary.

56. Planting Mixture, Item SPV.0035.002.

A Description

This special provision describes furnishing and installing Planting Mixture at the locations shown on the plans and in accordance with Section 632 of the standard specification, and as hereinafter provided.

B Materials

The planting mixture consists of the following blend by volume:

1. Two parts topsoil. Topsoil shall conform to section 625 of the standard specifications.
2. Two parts sand. Obtain the engineer's approval for the sand. The sand is to have at least 95 percent of the material passing the No. 8 sieve and a maximum of 10% passed through the No. 200 sieve.
3. One part compost. Compost shall be either well-rotted shredded leaf mulch, free of disease; or well rotted, unbleached stable or cattle manure containing no more than 25 percent by volume straw, sawdust, or other bedding materials and free of toxic substances. Either shall be free of stones, sticks, soil, weed seeds, debris and other material harmful to plant growth.
4. 1 part peat moss. Peat moss shall conform to section 632 of the standard specifications.

C Construction

C.1 Construction Planting Mixture

Ensure proper excavation of planting areas for all areas to receive Planting Mixture.

Prepare planting beds by removing any construction materials, stone, or other debris larger than 2" in length or diameter for entire area of planting bed and to depths indicated on plans.

Provide planting mixture over entire planting bed area and fine grade to match grades as indicated on plans. Place Planting Mixture in 6-inch lifts, watering in or tamping to reduce settling potential. Provide a minimum of 18" depth in all locations.

Obtain approval of Planting Mixture depths, locations, and elevations by supervising engineer.

Submit soil test, including particle distribution test, to the Landscape Architect or engineer in the field two weeks prior to using the material. The planting mixture is subject to acceptance and/or soil amendments as directed by the Landscape Architect or engineer in the field following soil testing.

D Measurement

The department will measure Planting Mixture by the cubic yard acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.002	Planting Mixture	CY

Payment is full compensation for furnishing and installing all materials, excavating and backfilling where necessary.

57. Mailbox Removal and Temporary Mailboxes, Item SPV.0060.001.

A Description

This special provision describes carefully removing the existing mailboxes and placing temporary mailboxes on stands for residential and commercial properties affected by project construction activities.

B (Vacant)

C Construction

Coordinate with the Village of McFarland post office for the proper height and locations of the temporary mailboxes. Construct the temporary stand to prevent being tipped over and to meet federal post office standards. The contractor is responsible for any damage to posts of mailboxes during the removal of existing mailboxes. Provide the mailboxes to the homeowner. The homeowner will be responsible for mailbox and post reinstallation.

Contact Information

Village of McFarland Post Office

608-838-6535

D Measurement

The department will measure Mailbox Removal and Temporary Mailboxes as each individual mailbox, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.001	Mailbox Removal and Temporary Mailboxes	EACH

Payment is full compensation for providing all materials; for removing; for installing; for all excavating, backfilling, and properly disposing of surplus material; for removing the temporary mailbox upon project completion; and for cleaning out and restoring the work site.

**58. Removing Traffic Signals (USH 51 & Farwell Street), Item SPV.0060.002;
Removing Traffic Signals (USH 51 & Larson Beach Road), Item SPV.0060.003.**

A Description

This special provision describes removing the existing traffic signals at the intersections of USH 51 & Farwell Street and USH 51 & Larson Beach Road in accordance with standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Arrange for the de-energizing of the traffic signals with the local electrical utility after receiving approval from the engineer that the existing street lighting items can be removed. Temporary signals must be operational before removals may begin.

Notify Graham Heitz at (608) 246-5362 at least 3 working days before the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove the transformer bases from each pole. Existing transformer bases will be salvaged for department pickup and paid for under bid item Salvage Transformer Bases Breakaway 11 ½-Inch Bolt Circle.

SW Region Electrical staff will remove the signal cabinet from the footing and video detection system from existing traffic signal poles. The signal cabinet and associated signal cabinet equipment and video detection system will be removed from the site by SW Region Electrical staff and will remain the property of the department.

D Measurement

The department will measure Removing Traffic Signals as each individual intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.002	Removing Traffic Signals (USH 51 & Farwell Street)	EACH
SPV.0060.003	Removing Traffic Signals (USH 51 & Larson Beach Road)	EACH

Payment is full compensation for removing, disassembling traffic signals, scrapping of some materials, disposing of scrap material.

59. Storm Sewer Tap, Item SPV.0060.004.

A Description

This special provision describes tapping various sized storm sewer pipes into existing structures, including manholes or inlets, or other pipes at locations shown on the plans. Perform the work according to the applicable provisions of sections 607 and 611 of the standard specifications, and as hereinafter provided.

B (Vacant)

C Construction

The work under these items shall be in accordance with the provisions of Section 611 of the standard specifications, as shown on the plans and as provided herein.

D Measurement

The department will measure Storm Sewer Tap by each unit acceptably completed, regardless of size and regardless of whether or not a box out exists.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT

Payment is full compensation for tapping the hole; connection of the pipe (pipe paid separately); furnishing and placing concrete.

60. Manholes 10-FT x 10-FT Special, Item SPV.0060.005.

A Description

This special provision describes the constructing a 10-FT x 10-FT manhole as shown on plans and directed by the engineer and as hereinafter provided.

B Materials

Use materials according to standard spec 611.2.

Provide drawings stamped by a professional engineer registered in the State of Wisconsin for steel reinforcing design.

C Construction

Construct manholes according to standard spec 611.3

D Measurement

The department will measure Manholes 10-FT x 10-FT Special, as a single complete unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.005	Manholes 10-FT x 10-FT Special	EACH

Payment is full compensation for providing materials, including masonry, sewer connections, steps, and other fittings; for completing and submitting an approved structural design; for excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site.

61. Construction Staking Roundabout, Item SPV.0060.006.

A Description

This special provision describes providing the contractor-performed construction staking required to establish the horizontal and vertical position of the following items contained within the roundabout. The limits of this item extends to the end of the splitter islands at the roundabout. The standard Construction Staking bid items will be used in areas outside the limits of this special provision.

Construction Staking Roundabout includes the following standard staking items:

- Subgrade
- Base
- Curb and gutter
- Concrete Pavement
- Sidewalk
- Supplemental Control
- Slope Stakes

B (Vacant)

C Construction

Perform Construction Staking Roundabout according to standard spec 650.

D Measurement

The department will measure Construction Staking Roundabout as a single unit for the roundabout, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.006	Construction Staking Roundabout	EACH

Payment is full compensation to locate and set all construction stakes; for maintaining, relocating, and resetting construction stakes at the roundabout throughout all project stages.

The department will not make final payment for this bid item until the contractor submits all survey notes and computations used to establish the required lines and grades to the engineer within 21 days of completing this work. The department will deduct from payments due the contractor for the additional costs specified in standard spec 105.6.

62. Concrete Pipe Support, Item SPV.0060.007.

A Description

This special provision describes constructing a concrete masonry support between storm sewer and local utilities as detailed in the plans and as hereinafter specified.

B Materials

Furnish concrete materials conforming to standard spec 611.2.

Furnish backfill materials conforming to standard spec 209.2.

C Construction

Construct in accordance to the plans and standard spec 209.2 and 611.3.

D Measurement

The department will measure Concrete Pipe Support as each individual concrete support, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.007	Concrete Pipe Support	EACH

Payment is full compensation for providing all materials, including all masonry; for all excavating, backfilling, disposing of surplus material, insulation, concrete masonry, curing, protecting and for cleaning out and restoring the work site.

63. Temporary Inlets 2x3-FT, Item SPV.0060.008.

A Description

This special provision describes the installation and removal of a temporary inlet.

B Materials

Furnish either a new or salvaged Inlet 2x3-FT inlet or saddle inlet and Inlet Cover Type MS-A casting in a condition suitable for the purpose intended. Conform to standard spec 611.

C Construction

Conform to standard spec 611.

Construct temporary inlets to accommodate drainage of USH 51 during stage construction at locations shown in the plans and as directed by the engineer.

D Measurement

The department will measure Temporary Inlets 2x3-FT as each unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.008	Temporary Inlets 2x3-FT	EACH

Payment is full compensation for providing all materials, including all masonry, fittings, and castings; for furnishing all excavating, backfilling, disposing of surplus material; for connecting sewer, for cutting and removal of existing sewer pipe, for removal and disposal of the inlet and casting, patching permanent structure that temporary pipe is connected to, and for restoring the work site.

64. Inlet Covers Flat Temporary, Item SPV.0060.009.

A Description

This special provision describes furnishing, installing, adjusting and removing temporary inlet covers on existing storm sewer structures at locations shown in the plans.

B Materials

Furnish inlet covers per standard spec 611. Provide open grates for drainage, traversable by vehicle and bicycle traffic, and rated for traffic loading.

C Construction

Remove the existing inlet or manhole cover and place the temporary inlet cover on the existing structure with the necessary adjustments per standard spec 611. Adjust and set the grade of the inlet cover to meet the final surface of the temporary pavement for traffic lanes. Bolt inlet covers placed within lanes open to traffic to the inlet or inlet frame.

Remove the temporary inlet cover once no longer needed in the temporary traffic lanes.

D Measurement

The department will measure Inlet Covers Flat Temporary as each individual temporary flat inlet cover, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.009	Inlet Covers Flat Temporary	EACH

Payment is full compensation for furnishing temporary inlet covers, including frames, grates or lids; for furnishing all necessary bolting; and for furnishing all other required materials and for installing, adjusting, and removing each cover. Upon removal, the temporary inlet cover becomes the property of the contractor.

swr-611-002 (20171031)

65. Salvage Transformer Bases Breakaway 11 ½-Inch Bolt Circle, Item SPV.0060.010.

A Description

This work consists of removing existing traffic signal transformer bases and storing them in a safe location on the project for pick up by SW Region Electrical staff.

B (Vacant)

C Construction

Coordinate the de-energizing of the existing traffic signals with the engineer and after temporary signals are operational.

Notify the department's Traffic Engineering personal at (608) 246-5362 at least (3) working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of the installation.

Coordinate and perform a field review of existing transformer bases with the SW Region Electrician for condition of equipment prior to removal. Notify the department of any damaged equipment. Separate the transformer base from the concrete base foundation and pole. Dispose of the excess signal cable.

Store all removed materials in a safe and secure location on the project, and as designated by the Project Engineer. Protect from theft and damage. Properly dispose offsite all materials not to be reinstalled on this project.

D Measurement

The department will measure Salvage Transformer Bases Breakaway 11 ½-Inch Bolt Circle as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.010.	Salvage Transformer Bases Breakaway 11 ½-Inch Bolt Circle	EACH

Payment is full compensation for removing, disassembling traffic signals, disposing of scrap material, safe storage of materials to be salvaged, and for protecting materials from theft and damage.

66. Verify Landmark Reference Monuments, Item SPV.0060.011.

A Description

This special provision describes preserving the location and constructing new monuments for existing Public Land Survey System (PLSS) section corner monuments and witness monuments located within permanent easements, temporary easements, or construction permit areas, which may be lost or disturbed by construction operations.

This provision does not relinquish the contractor's responsibility of standard spec 107.11.

B Materials

The Department can furnish aluminum monument caps if necessary. Otherwise, all materials for the monumentation and witness ties will be the responsibility of the contractor to provide. Any monuments that satisfy Wisconsin Administrative Code Chapter AE-7 will be acceptable.

C Construction

Complete the work in accordance with the direction of the Dane County Land Information Officer and as follows:

Contact and follow the direction of the Dane County Surveyor on perpetuation requirements for PLSS section corner monuments and witness monuments. Obtain existing tie sheets from the Dane County Surveyor. Locate and verify existing PLSS monuments and ties. Furnish, and install if necessary, temporary and/or permanent ties. Provide a temporary tie sheet to the Wis-DOT SW Region-Madison Survey Coordinator and the Dane County Surveyor, for use by the public during the construction phase of the project and before the final monumentation is complete.

Perpetuate and/or reset all PLSS monuments and witness monuments under the direction of a State of Wisconsin Licensed Professional Land Surveyor. Prepare the temporary and final PLSS monument records in accordance with the Wisconsin Administrative Code Chapter AE-7. Prepare and File new monument records with the Dodge County Land Information Officer in accordance with AE-7 and provide a copy of the same to the Wis-DOT SW Region-Madison Survey Coordinator. This work shall be overseen and completed by a State of Wisconsin Licensed Professional Land Surveyor.

The approximate location of the section corners that will likely be disturbed due to the proposed construction:

Landmark Reference Monument				
Station	Offset	Township	Range	Section Corner
841+59.09'NB'	116.27' RT	6N	10E	4

Notify the Dane County Surveyor and Wis-DOT SW Region-Madison Survey Coordinator at least thirty (30) working days prior to construction operations that may disturb existing monuments, with questions or for Department provided monument caps.

Contact Information
WisDOT SW Region-Madison Survey Coordinator
Jarod Alvarez
608-246-7918
jarod.alvarez@dot.wi.gov
Dane County Surveyor
Dan Frick
608-266-4252
frick@ccountyofdane.com

D Measurement

The department will measure Landmark Reference Monuments by each PLSS section corner monument acceptably verified, tied, and preserved.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.011	Landmark Reference Monuments	Each

This price shall be payment in full for furnishing a Professional Land Surveyor; obtaining existing PLSS monument record tie sheet(s); preparing, providing and filing temporary/final PLSS monument record tie sheet(s) from a Professional Land Surveyor; all survey work related to the perpetuation process; the furnishing and placing of all PLSS survey monuments; the furnishing and placement of any necessary witness ties; the removal of the existing monument(s) if necessary; excavating for the placement of the new monument(s) if necessary.

swr-621-004

67. Utility Line Opening (ULO), Item SPV.0060.012.

A Description

This special provision describes excavating to uncover utilities for the purpose of determining elevation and potential conflicts with proposed work, as shown on the plans or as directed by the engineer.

B (Vacant)

C Construction

Perform the excavation according to Wisconsin State Statue 182.0175.

Perform the utility line openings as soon as possible, before ordering precast structures, and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Allow the engineer a minimum of three working days once utility line opening information is received to review all relevant design information.

The contractor should anticipate the need for CIP structures if ULOs are not performed as specified in Article 66. The cost of modifications to precast structures ordered without ULO data is the contractor's responsibility

Coordinate and approve all utility line openings with the engineer. Notify the utilities a minimum of 3 days before the work so they may be present.

Backfill the excavation with suitable backfill material, and thoroughly compact.

D Measurement

The department will measure Utility Line Opening (ULO) as each individual utility line opening (ULO) acceptably completed. Utility line openings include a trench up to 10-feet long as measured at the trench bottom, and of any width and depth required to locate the intended utility. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be measured.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.012	Utility Line Opening (ULO)	EACH

Payment is full compensation for performing the excavation required to expose the utility line, backfilling, and for restoring and cleaning up the site.

swr-107-001 (20160601)

68. Rectangular Rapid Flashing Beacon (RRFB) Single Light Bar System, Item SPV.0060.013; Rectangular Rapid Flashing Beacon (RRFB) Double Light Bar System, Item SPV.0060.014.

A Description

Furnish and install a Rectangular Rapid Flashing Beacon (RRFB) system as described herein and as shown in the plans. Each assembly shall be solar-powered and pedestrian-activated. Multiple units installed as part of the same intersection (or crossing) shall be wirelessly controlled and synchronized.

B Materials

B.1 General Requirements

The RRFB shall be in conformance with all applicable MUTCD standards and guidelines. It shall consist of two rapidly flashed rectangular yellow indications having LED array-based pulsing light sources, and shall be designed, located, and operated in accordance with the detailed requirements specified in the MUTCD 11th Edition.

Each RRFB shall be a complete assembly consisting of but not limited to, controller and electrical components (wiring, solid-state circuit boards, solar array, batteries), LED indications in a Light Bar, signage, sign mounting, and ADA-compliant activation device.

An RRFB assembly will have two Light Bars (mounted back-to-back facing dual directions) per pole unless otherwise specified in the plans.

B.2 Functional Requirements

Per FHWA guidelines, RRFB shall be normally dark, shall initiate operation only upon pedestrian actuation, and shall cease operation at a predetermined time after the pedestrian actuation. The flash cycle duration should be based on the MUTCD procedures for timing of pedestrian clearance times for pedestrian signals: refer to the MUTCD 11th Edition, Section 4L.06 and any State-specified regulations.

- The flash rate, sequence, and pattern shall match the specifications described in the MUTCD 11th Edition, Section 4L.03 for the flash rate of beacons as stated in the MUTCD 11th Edition, Section 4L.03.
- The flash rate of each individual yellow indication, as applied over the full flashing sequence, shall not be between 5 and 30 flashes per second, to avoid frequencies that may cause seizures.
- The light intensity of the vehicle indications shall be certified to meet the minimum specifications for Class 1 yellow peak luminous intensity in the Society of Automotive Engineers (SAE) standard J595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005. Manufacturer Certification of Compliance shall be provided upon request.
- The light intensity shall be able to adjust to ambient lighting conditions and automatically dim the brilliance during nighttime operations to minimize excessive glare during nighttime conditions.
- When activated, all indications associated with a given crosswalk (including those with an advance crossing sign, if used) shall simultaneously commence operation of their rapid flashing cycle within 120 ms. The predetermined flash period shall be initiated each and every time a pedestrian call is made, including calls made while the RRFBs are already flashing or have recently completed a call.
- The duration of the flash cycle shall be programmable in 1 second increments.

B.3 Material Specifications

B.3.1 Light Bar

- Each Light Bar shall contain two rectangular-shaped yellow vehicular-facing indications that meet the specifications provided in the MUTCD 11th Edition, Section 4L.02.
- An LED indication shall be side mounted on both sides in the Light Bar housing, as shown in the plans, to be directed at and visible to pedestrians both waiting to cross and within the crosswalk. The pedestrian indications shall flash concurrently with the vehicle indications to give confirmation that the RRFB is in operation.
- The Light Bar housing shall be colored black and constructed of durable, corrosion-resistant powder-coated aluminum with stainless steel fasteners.

- All mounting hardware required for mounting the Light Bar housing shall be provided.
- All exposed hardware shall be anti-vandal.
- Light bars mounted back-to-back on the same Traffic Signal Standard shall be able to be independently aimed for optimal viewing from an oncoming vehicle.
- All individual components of the Light Bar system shall be replaceable to allow for easy field repair and maintenance without removal of the housing from the pole.

B.3.2 Crosswalk Illuminator

- The crosswalk illuminator shall operate in conjunction with the crosswalk controller and intelligent warning devices.
- Activate when less than 10 lux of ambient light is present (when active by a pedestrian).
- Orient light sensor to minimize impacts from adjacent streetlights.
- Provide a minimum of 20 vertical lux at 5 feet for a standard 2 lane crosswalk.
- Activate with a 0.5 second soft start.
- Allow for multiple brightness options for each illuminator.
- Shall be housed in its own IP66 type enclosure.
- Shall be made of weather resistant materials (aluminum, stainless steel, plastic).
- Shall be able to be adjusted and aimed both horizontally and vertically.
- Shall be independently replaceable among other control panel components.
- Operate between the temperatures of -40° to 140° F (-40° to 60° C).

B.3.3 Controller Circuit

- The Controller Circuit shall be mounted in a housing that meets or exceeds NEMA 3R ratings for protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from ice formation.
- All Control Circuit connectors shall meet or exceed IP67 ratings, dust proof, and protected from temporary immersion in water up to 3 feet deep for 30 minutes.
- The LED light output and flash pattern shall be completely programmable, with the capability to actuate and shall be reconfigurable if future MUTCD or State guidelines specify a different flash pattern.
- The Controller Circuit shall be capable of storing input activation count data in preset intervals, with downloadable capabilities using at least one of the following:
- Web-enabled, to allow for remote programming and system diagnostics, including flash time, flash pattern, and report system information such as battery voltage and temperature.
- On-board interface that provides system programming and diagnostics.
- Approved equal system.
- All individual components of the Controller Circuit system shall be replaceable to allow for easy field repair and maintenance.

B.3.4 Wireless Radio

- Wireless Radio control shall operate on 900 MHz frequency hopping spread spectrum network, 2.4 GHz mesh network radio, 27.255 MHz FSK Modulated, or approved equal.
- Wireless Radio shall integrate with communication of the Controller Circuit to activate the light indications from pedestrian activation device. The Wireless radio shall operate with sufficient range capacity to communicate with all RRFB units associated with the crossing it is installed with.
- The Wireless Radio shall synchronize all RRFB systems per intersection light indications to turn on within a maximum of 150 ms of each other and remain synchronized for the duration of the flashing cycle.
- Wireless Radio systems shall operate from 3.6 V DC to 15 V DC.
- The Wireless Radio unit shall have an LCD display to program flash time and system information, including but not limited to battery voltage, battery temperature, solar charge, and onboard diagnostics.
- All components of the Wireless Radio system shall be replaceable to allow for easy field repair and maintenance.

B.3.5 Battery

- The Battery shall be a replaceable 12 V DC sealed lead-acid, Absorbed Glass Mat (AGM), maintenance-free battery, or approved equal.
- The Battery shall conform to Battery Council International (BCI) specifications and shall be rated at 50 Ah minimum, or an approved alternative which meets power consumption, activation, and autonomy requirements for the RRFB system. Calculations shall be provided.
- The Battery shall be sealed within a plastic film to resist damage from moisture and corrosion.
- The battery shall be mounted inside the Controller Circuit housing or in an approved alternate location.
- The Battery shall be capable of continuous operation within a minimum temperature range of -40° to 140° F (-40° to 60° C).

- All battery connectors shall conform to Ingress Protection IP67 rating, dust-proof, and protected from temporary immersion in water up to 3 feet deep for 30 minutes. Connectors shall be Deutsch DTM series, or approved equal.
- The battery shall be replaceable independent of all other components.
- Autonomy with a fully charged battery shall be a minimum of 14 days without sunlight, dependent upon ambient temperature and number of activations. The battery shall have a capacity capable of providing up to 30 days of autonomy. Solar calculations shall be provided.

B.3.6 Solar Array

- The Solar Array shall provide 10 watts minimum and 85 watts maximum peak total output or approved system that will provide enough power for the system for the specified amount of time and activation cycles. Solar calculations shall be provided for the specified wattage.
- The Solar Array shall be affixed to an aluminum plate and bracket and shall securely mount to the provided Traffic Signal Standard, per manufacturer's recommendations and supplied anti-vandal hardware.
- The Solar Array shall be adjustable to an angle 45° to 60° from vertical to facilitate adjustment for maximum solar collection.
- The Solar Array assembly (Solar Array and mounting plate and bracket), shall be mounted to the Traffic Signal Standard utilizing hardware capable of 360° of rotation about the Traffic Signal Standard to facilitate adjustment for maximum solar collection.
- The Solar Array shall have a minimum operating temperature range of -40° to 185° F (-40° to 85° C).

B.3.7 Accessible Push Button Station (APBS)

- The APBS shall be vandal resistant.
- The APBS shall be ADA-compliant.
- The APBS shall be capable of continuous operation over a temperature range of -29° to 165° F (-40° to 74° C).
- The APBS shall provide an audible tone when pressed and shall activate the RRFB.
- Each APBS shall include an instructional sign per plan details, mounted adjacent to or integral with the APBS.
- APBS shall comply with:
- US Access Board's "Draft Guidelines for Accessible Public Rights of Way" (PROWAG) Section R306.
- Sections 4E.09 through 4E.13 of the 2009 MUTCD.
- NEMA TS 2 Section 2.1 Temperature & Humidity requirements.
- NEMA TS 2 Section 2.1 Transient Voltage Protection requirements.
- NEMA TS 2 Section 2.1 Mechanical Shock and Vibration requirements.
- IEC 61000-4-4, IEC 61000-4-5 Transient Suppression requirements.
- FCC Title 47, Part 15, Class A Electronic Noise requirements.
- NEMA 250 – Type 4X Enclosure requirements.
- NEMA TS 4 – Electrical Reliability requirements (applicable portions of Section 8).
- All sounds shall emanate from the APBS.
- All sounds shall be synchronized with all RRFB assemblies associated with the pedestrian crossing.
- The APBS shall have the field-selectable "Locator Tone" function. This means that during the period when the RRFB is not activated (dark), the system shall provide a Locating Tone that emanates from the APBS. The system shall provide at least three different sounds to choose from.
- The APBS shall not use vibrotactile or percussive indications. All messages and tones shall be compliant with PROWAG.
- The APBS shall have the field selectable "Informational Message" function. This message shall say "Warning lights are flashing" and shall be spoken twice. This message shall only be active once the pedestrian pushbutton has been depressed.
- The Locator Tone and Informational Message audible features shall have independent settable minimum and maximum volume limits.
- The system shall have an ambient sensing microphone located in the pedestrian station in a non-visible, environmentally protected housing. Automatic volume adjustment in response to ambient traffic sound level shall be provided up to a maximum volume of 100 dBA.
- The APBS shall have a tactile arrow with high visual contrast, located on the actual push button, and shall be able to be oriented to 1 of 4 directions:
- Left
- Right
- Up
- Down

B.3.8 Traffic Signal Standard

- The Traffic Signal Standard shall meet the requirements as set forth in standard spec 657.
- The Traffic Signal Standard shall be threaded on one end for easy installation into a Pedestal Base.

- The Outside dimension shall be a standard 4 ½ inches.
- The Traffic Signal Standard shall be Schedule 80 aluminum pipe with length specified in the plans.
- Traffic Signal Standard is incidental to the RRFB.

B.3.9 Pedestal Base

- The Pedestal Base shall meet the requirements as set forth in standard spec 657.
- The Pedestal Base shall be a cast aluminum and mount on a Concrete Base with four internal Anchor Rods imbedded into the base.
- The Pedestal Base shall have a large 8 ½ inch square hand hole cover allowing access to the interior of the base.
- Pedestal Base is incidental to the RRFB.

B.3.10 Concrete Base

- The Concrete Base shall be a Type 1 base (WisDOT bid item 654.0101).
- The Concrete Base shall meet the requirements as set forth in standard spec 654 or approved equal.
- Concrete Base is incidental to the RRFB.

B.3.11 Anchor Rods

- The Anchor Rods shall be galvanized steel 1 inch x 42 inches.
- Each set of four Anchor Rods includes lock washers and nuts.
- Anchor Rods are incidental to the RRFB.

B.3.12 Signs

- All Signs shall conform to MUTCD standards and standard spec 637.
- All Signs shall use provided anti-vandal fasteners and tools to mount components to sign, and sign to fixture.
- All signs shall be supplied and mounted as shown in the permanent signing plan sheets. Arrow plaque Signs shall point down and toward the painted crosswalk.
- Signs are incidental to the RRFB.

B.4 Warranty

The system shall be supported by a minimum three-year manufacturer's warranty. All documents containing parts lists, installation/operational/maintenance manuals, and warranty information shall be turned over to the maintaining authority upon completion of installation and acceptable activation of devices.

C Construction

Assemble and mount the Rectangular Rapid Flashing Beacon (RRFB) System per the plans and details and the manufacturer's recommendations.

D Measurement

The department will measure Rectangular Rapid Flashing Beacon (RRFB) System as each individual unit, completed in accordance with the contract and accepted, for each location acceptably completed

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.013	Rectangular Rapid Flashing Beacon (RRFB) Single Light Bar System	EACH
SPV.0060.014	Rectangular Rapid Flashing Beacon (RRFB) Double Light Bar System	EACH

Payment is full compensation for furnishing and installing the Rectangular Rapid Flashing Beacon (RRFB) including wire and all necessary mounting hardware and appurtenances and testing.

69. Traffic Signal Equipment (USH 51 & Farwell Street), Black Finish, Item SPV.0060.015.

A Description

This special provision describes furnishing a black exterior finish to all Traffic Signal Equipment at the USH 51 & Farwell Street intersection including the pole, luminaire, transformer base, mast arm and mounting hardware.

B Material

Provide an exterior weather-resistant material appropriate black (RAL 9017) color treatment finish on all traffic signal equipment including but not limited to the pole, luminaire, transformer base, mast arm and mounting hardware.

Anodize aluminum materials according to the manufacturer's recommendations.

Powder coat steel materials according to the manufacturer's recommendations.

C Construction

Field repair black finish according to the supplier's recommendations, supplied to the engineer by the equipment fabricator.

D Measurement

The department will measure Traffic Signal Equipment (USH 51 & Farwell Street), Black Finish, by each unit, acceptably completed.

E Payment

The department will pay for measured quantity at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.015	Traffic Signal Equipment (USH 51 & Farwell Street), Black Finish	EACH

Payment is full compensation for supplying all traffic signal equipment with an exterior weather-resistant material appropriate black treatment finish.

70. Lighting Unit, Black Finish, Item SPV.0060.016.**A Description**

This special provision describes furnishing a black exterior finish to the lighting unit including the pole, luminaire, transformer base, mast arm and mounting hardware.

B Material

Provide an exterior weather-resistant material appropriate black (RAL 9017) color treatment finish on all lighting unit equipment including but not limited to the pole, luminaire, transformer base, mast arm and mounting hardware.

Anodize aluminum materials according to the manufacturer's recommendations.

Powder coat steel materials according to the manufacturer's recommendations.

C Construction

Field repair black finish according to the supplier's recommendations, supplied to the engineer by the equipment fabricator.

D Measurement

The department will measure Lighting Unit, Black Finish by each unit, acceptably completed.

E Payment

The department will pay for measured quantity at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.016	Lighting Unit, Black Finish	EACH

Payment is full compensation for supplying the lighting unit equipment with an exterior weather-resistant material appropriate black treatment finish.

71. Rectangular Rapid Flashing Beacon (RRFB) Unit, Black Finish, Item SPV.0060.017.**A Description**

This special provision describes furnishing a black exterior finish to the rectangular rapid flashing beacon (RRFB) unit including the pole, transformer base and mounting hardware.

B Material

Provide an exterior weather-resistant material appropriate black (RAL 9017) color treatment finish on all rectangular rapid flashing beacon (RRFB) unit equipment including but not limited to the pole, transformer base and mounting hardware.

Anodize aluminum materials according to the manufacturer's recommendations.

Powder coat steel materials according to the manufacturer's recommendations.

C Construction

Field repair black finish according to the supplier's recommendations, supplied to the engineer by the equipment fabricator.

D Measurement

The department will measure Rectangular Rapid Flashing Beacon (RRFB) Unit, Black Finish by each unit, acceptably completed.

E Payment

The department will pay for measured quantity at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.017	Rectangular Rapid Flashing Beacon (RRFB) Unit, Black Finish	EACH

Payment is full compensation for supplying the rectangular rapid flashing beacon (RRFB) unit with an exterior weather-resistant material appropriate black treatment finish.

- 72. Perennials, Millenium Onion, Container, #1, Item SPV.0060.018;
Perennials, Butterfly Milkweed, Container, #1, Item SPV.0060.019;
Perennials, Blanketflower, Container, #1, Item SPV.0060.020;
Perennials, May Night Meadow Sage, Container, #1, Item SPV.0060.021;
Perennials, Autumn Joy Sedum, Container, #1, Item SPV.0060.022;
Perennials, Side Oats Grama, Container, #1, Item SPV.0060.023;
Perennials, Switchgrass, Container, #1, Item SPV.0060.024;
Perennials, Little Bluestem, Container, #1, Item SPV.0060.025.**

A Description

This special provision describes furnishing and installing Perennials in accordance with the applicable sections of standard spec 632, as shown on the plans, and as hereinafter provided.

B Materials

Provide Perennial (plant) complying with American Standard for Nursery Stock (ANDI z60.1-2004) for type, shape, and height.

Provide plants grown within the state of Wisconsin.

C Construction

Place Planting Mixture in accordance with the bid item Planting Mixture.

Compact the bottom of the hole to guard against settling. Tamp or water in as necessary to create a condition by which plants will not settle in the planting beds. Place the bottom of the root ball directly on the bottom of the hole.

D Measurement

The department will measure Perennials (plant) as each individual perennial (plant), acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.018	Perennials, Millenium Onion, Container, #1	EACH
SPV.0060.019	Perennials, Butterfly Milkweed, Container, #1	EACH

SPV.0060.020	Perennials, Blanketflower, Container, #1	EACH
SPV.0060.021	Perennials, May Night Meadow Sage, Container, #1	EACH
SPV.0060.022	Perennials, Autumn Joy Sedum, Container, #1	EACH
SPV.0060.023	Perennials, Side Oats Grama, Container, #1	EACH
SPV.0060.024	Perennials, Switchgrass, Container, #1	EACH
SPV.0060.025	Perennials, Little Bluestem, Container, #1	EACH

Payment is full compensation for providing, transporting, handling, storing, placing, and replacing plant materials; for laying out plantings and excavating all plant holes, salvaging topsoil, mixing, and backfilling; for providing and applying all required fertilizer, water, rodent protection, herbicides and anti-desiccant spray; for disposing of all excess and waste materials; the department will pay for Planting Mixture separately.

**73. Bulbs, Violet Beauty Ornamental Onion, Bare Root, Bulb, Item SPV.0060.026;
Bulbs, Dutch Master Daffodil, Bare Root, Bulb, Item SPV.0060.027;
Bulbs, Las Vegas Daffodil, Bare Root, Bulb, Item SPV.0060.028;
Bulbs, Mount Hood Daffodil, Bare Root, Bulb, Item SPV.0060.029.**

A Description

This special provision describes furnishing and installing Bulbs in accordance with the applicable sections of standard spec 632, as shown on the plans, and as hereinafter provided.

B Materials

Provide Bulb (plant) that are healthy bulbs from a commercial nursery; dry and dormant; disease free; well-developed bulb and root system; complying with ANSI A60.1.

Provide complying with American Standard for Nursery Stock (ANDI z60.1-2004) for type, shape, and height.

Provide plants grown within the state of Wisconsin.

C Construction

Growing tip to be pointed upward.

Set bottom of bulb on compacted grade at depth 3 times height of bulb, but minimum 6 inches. Work soil around roots to eliminate air pockets without disturbing bulbs. Water thoroughly.

D Measurement

The department will measure Perennials (plant) as each individual perennial (plant), acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.026	Bulbs, Violet Beauty Ornamental Onion, Bare Root, Bulb	EACH
SPV.0060.027	Bulbs, Dutch Master Daffodil, Bare Root, Bulb	EACH
SPV.0060.028	Bulbs, Las Vegas Daffodil, Bare Root, Bulb	EACH
SPV.0060.029	Bulbs, Mount Hood Daffodil, Bare Root, Bulb	EACH

Payment is full compensation for providing, transporting, handling, storing, placing, and replacing plant materials; for laying out plantings and excavating all plant holes, salvaging topsoil, mixing, and backfilling; for providing and applying all required fertilizer, water, rodent protection, herbicides and anti-desiccant spray; for disposing of all excess and waste materials; the department will pay for Planting Mixture separately.

74. Remove, Salvage and Reinstall Tree Grates, Item SPV.0060.030.

A Description

This special provision describes the removing and salvaging of existing tree grates along Farwell Street during construction and reinstalling the tree grates as shown on the plans.

B (Vacant)

C Construction

Arrange for the removal of existing tree grates. Store the items on the project site until ready to be reinstalled. Any items damaged during removal or reinstallation will be replaced at the contractor's expense.

D Measurement

The department will measure Remove, Salvage and Reinstall Tree Grates as each unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.030	Remove, Salvage and Reinstall Tree Grates	EACH

Payment is full compensation for removing, salvaging, reinstalling existing tree grates and storing salvaged tree grates.

75. Remove and Salvage Tree Grates, Item SPV.0060.031.

A Description

This special provision describes the removing and salvaging of existing tree grates along Farwell Street.

B (Vacant)

C Construction

Arrange for the removal of existing tree grates. Store the items on the project site until ready to be picked up by the Village. Contact Lee Igl at (608) 838-7287 to coordinate pick up. Any items damaged during removal or storage will be replaced at the contractor's expense.

D Measurement

The department will measure Remove and Salvage Tree Grates as each unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.031	Remove and Salvage Tree Grates	EACH

Payment is full compensation for removing, salvaging, storing and dropping off salvaged tree grates.

76. Lighting Unit Type Special 1, Item SPV.0060.032.

A Description

This special provision describes the furnishing and installing of lighting units complete with LED luminaires, poles, banner arms, flagpole holders and mounting arms.

B Materials

Lighting Unit Type Special to withstand maximum loading applied by equipment per design factors of the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals based on a 90-mph gust factor. Lighting poles, arms and luminaires shall be as shown in the Plan details. Pole and arm shall be Hamilton Series 6425ARTF-12FF-RDBP/DPL LPIUC-SHPA-BDBA9-FH/BKT SMA6. Luminaires to be 1A-1940LED-1L4OT3-MDL12-FG-HSHB– no substitutions are allowed

The luminaires shall be "UL" listed and equipped with an internal LED driver, surge protection, and 3000 Kelvin LEDs.

All pole components and metallic in-use covers shall be factory finished black in color.

Furnish shop drawings as specified in 506.3.2. Ensure the drawings contain sufficient detail to allow satisfactory review and show the dimensions of all equipment shown in the plans.

Construct poles of materials having sufficient rigidity so that with all material installed and in place as the plans show, the centerline of the shaft appears vertical. If pole vibration is probable, it is the manufacturer's responsibility to include vibration dampers where necessary.

Provide a reinforced hand hole located near the bottom of the pole as per manufacturer's requirements.

All threaded equipment mounting hardware shall be stainless steel.

Provide a grounding lug complete with mounting hardware as required inside the pole. Provide access to the grounding lug from the hand hole. Mount the grounding lug by welding it directly opposite the hand hole on the inside wall of the pole.

Ensure that all castings are clean and smooth and that all details are well-defined and true to pattern.

Fuses shall be mounted in inline molded fuse connector/holders. The two-pole fuse holders for the 120-volt luminaires and 120-volt receptacles shall be 30A-breakaway type for UL 13/32"x1-1/2" supplemental fuses. Lineside: Copper crimp #8-16; (2) #12-16, Loadside: Copper crimp #8-16; (2) #12-16, withstand 200kA RMS sym, and 600 V. Fuse holders shall provide submersibility per UL IP67.

C Construction

Under the bid item Lighting Unit Type Special, furnish and install poles, luminaires, banner arms, flag pole holders and all necessary miscellaneous accessories and hardware for the installation of a complete operational lighting system as shown in the plan details and equipment schedule.

Furnish and install 3-1/C #12 stranded type XHHW-2 wiring to splice the luminaire to the lighting branch conductors in the base of the pole. Protect each luminaire with two "UL" listed 5-amp fuses. Mount the fuse casings level with the pole base access handhole with sufficient excess conductor length to allow the withdrawal of the fuse holders and wiring for installation and maintenance. Do not fuse the grounding conductor.

Install poles at locations as specified in the plans.

All threaded hardware shall be coated with an approved zinc-based anti-seize compound provided by contractor.

After completing pole erection, ensure the centerline of the shaft is vertical.

Follow manufacturer's instructions regarding pole and luminaire installation.

D Measurement

The department will measure Lighting Unit Type Special 1 as each individual assembly, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.032	Lighting Unit Type Special 1	EACH

Payment is full compensation for furnishing and installing all materials including poles, luminaires and accessories; for making all connections and conduit/wire entrances; and for all testing.

77. Install Lighting Unit, Item SPV.0060.033.

A Description

This special provision describes the installation of a lighting unit complete with LED luminaire, arm, and pole.

B Materials

Furnish complete lighting unit salvaged from the project as shown in the plans.

Furnish any necessary cable, mounting hardware, connectors, and any other accessories necessary to reinstall the lighting unit.

C Construction

Install poles, luminaires, and any miscellaneous accessories and hardware for the installation of a complete operational lighting system as shown in the plans.

Install poles at the locations as specified in the plans

After complete pole erection, ensure the centerline of the shaft is vertical.

Follow manufacturer's instructions regarding pole and luminaire installation.

D Measurement

The department will measure Install Lighting Unit as each individual assembly, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.033	Install Lighting Unit	EACH

Payment is full compensation for furnishing and installing all materials including poles, luminaires and accessories; for making all connections and conduit/wire entrances; and for all testing.

78. Install Lighting Control Cabinet, Item SPV.0060.034.**A Description**

This special provision describes the installation of a lighting control cabinet previously salvaged from the project.

B (Vacant)**C Construction**

Install the salvaged equipment at the locations indicated on the project plans. Perform all work in accordance with section 646 of the standard specifications.

The lighting control cabinet shall be installed and function in the same manner as the existing lighting control cabinet unless noted otherwise on the plans.

Additional cabling required for reinstallation will be paid for separately.

D Measurement

The department will measure Install Lighting Control Cabinet by the individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.034	Install Lighting Control Cabinet	EACH

Payment is full compensation for installing the lighting control cabinet.

79. Salvage Lighting Unit, Item SPV.0060.035.**A Description**

This special provision describes the salvage of existing lighting unit for later use on the project.

B (Vacant)

C Construction

Salvage lighting units consisting of pole, arm, luminaire, lamp, wires, breakaway device, and associated hardware and appurtenances.

Care shall be exercised while removing and storing salvaged equipment so that it remains in good working condition so that it may be used again.

D Measurement

The department will measure Salvage Lighting Unit by the individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.035	Salvage Lighting Unit	EACH

Payment is full compensation for salvaging, transporting, and storing all materials including poles, luminaires and accessories.

80. Salvage Lighting Control Cabinet, Item SPV.0060.036.

A Description

This provision describes salvaging and existing lighting control cabinet as shown in the plans and removal of associated concrete base in accordance with standard spec 204.

B (Vacant)

C Construction

The Department assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working equipment to the engineer. Replace any equipment not identified as damaged or not working, prior to removal at no cost to the Department.

Remove the lighting control cabinet and store for later installation as shown in the project plans.

Remove the control cabinet base and dispose outside the construction limits but within the right-of-way.

Coordinate with the utility for relocation of services.

Care shall be exercised while removing and storing salvaged equipment so that it remains in good working condition so that it may be used again.

D Measurement

The department will measure Salvage Lighting Control Cabinet by the individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.036	Salvage Lighting Control Cabinet	EACH

Payment is full compensation for salvaging, transporting, and storing all materials including lighting control cabinet, attached conduit, attached hardware and accessories.

81. **Temporary Pipe Connection 12-Inch, Item SPV.0060.037;
Temporary Pipe Connection 15-Inch, Item SPV.0060.038;
Temporary Pipe Connection 18-Inch, Item SPV.0060.039;
Temporary Pipe Connection 24-Inch, Item SPV.0060.040;
Temporary Pipe Connection 36-Inch, Item SPV.0060.041;
Temporary Pipe Connection 48-Inch, Item SPV.0060.042.**

A Description

This special provision describes providing a temporary pipe connection between existing storm sewer and proposed storm sewer during staging in accordance with section 612 of the standard specs.

B Materials

Furnish unperforated pipe underdrain and fittings in accordance with section 612.2 of the standard specs. For pipe sizes 21 inches or less the pipe material shall be polyvinyl chloride (PVC) or acrylonitrile-butadiene-styrene (ABS).

For pipe sizes 24 inches and larger the pipe material shall be corrugated steel or corrugated polyethylene.

Furnish concrete for concrete collars in accordance with section 520.2.4.

C Construction

Install temporary pipe connections in accordance with section 612 of the standard specifications.

Use for connections made with PVC and ABS pipe elbows to correct any horizontal and vertical offsets. All elbows and other fittings shall be incidental to the temporary pipe connection.

For connections made with corrugated steel and corrugate polyethylene pipe horizontal and vertical offset, use mechanical bands, concrete collars, or other engineer approved method. All methods of connection are incidental to the temporary pipe connection.

Connect the temporary pipe connection to the existing and proposed storm sewer using an engineer approved method that is watertight and does not damage the proposed storm sewer pipe.

Remove the temporary pipe connection when it is no longer needed to maintain drainage. Backfill the excavation in accordance with section 204 of the standard specs.

D Measurement

The department shall measure Temporary Pipe Connection (size) by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.037	Temporary Pipe Connection 12-Inch	EACH
SPV.0060.038	Temporary Pipe Connection 15-Inch	EACH
SPV.0060.039	Temporary Pipe Connection 18-Inch	EACH
SPV.0060.040	Temporary Pipe Connection 24-Inch	EACH
SPV.0060.041	Temporary Pipe Connection 36-Inch	EACH
SPV.0060.042	Temporary Pipe Connection 48-Inch	EACH

Payment is full compensation for providing pipe and fittings; for all mechanical bands, concrete collars, or other pipe to pipe connections; for connections to existing and proposed storm sewer; for all excavation, compaction, and backfill; for preparing the foundation; for all dewatering; and for removing the pipe and backfilling the excavation. If material from the typical section is not available then payment for trench backfill shall be in accordance with section 520.5.2 of the standard specs.

- 82. Storm Sewer Plug 12-Inch, Item SPV.0060.043;
Storm Sewer Plug 24-Inch, Item SPV.0060.044;
Storm Sewer Plug 29X45-Inch, Item SPV.0060.045;
Storm Sewer Plug 34X53-Inch, Item SPV.0060.046;
Storm Sewer Plug 38X60-Inch, Item SPV.0060.047.**

A Description

Install a Storm Sewer Plug at locations specified in the plans.

B Materials

Provide a precast reinforced concrete plug or an engineer approved alternative, conforming to the inside diameter of the corresponding pipe as shown on the plan.

All materials, if concrete, must conform to section 501 and section 611 of the standard specifications.

C Construction

Place a watertight plug in the end of the storm sewer pipe in a manner that seals the pipe but allows for future removal of plug without damaging the storm sewer pipe.

D Measurement

The department shall measure Storm Sewer Plug (size) by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.043	Storm Sewer Plug 12-Inch	EACH
SPV.0060.044	Storm Sewer Plug 24-Inch	EACH
SPV.0060.045	Storm Sewer Plug 29X45-Inch	EACH
SPV.0060.046	Storm Sewer Plug 34X53-Inch	EACH
SPV.0060.047	Storm Sewer Plug 38X60-Inch	EACH

Payment is full compensation for furnishing and installing all required materials; and removal in subsequent stage.

- 83. Retroreflective Backplate 3S, Item SPV.0060.048;
Retroreflective Backplate 4S, Item SPV.0060.049.**

A Description

This special provision describes installing 2-inch yellow retroreflective borders on traffic signal backplates, as shown in the plans..

B Materials

Provide 2-inch retroreflective sheeting or tape. Ensure material is approved by the engineer prior to use.

C Construction

Install the retroreflective border on signal heads as shown in the plans. Follow all manufacturer installation instructions. The retroreflective border must be installed inside a controlled environment.

D Measurement

The department will measure Retroreflective Backplate 3S and Retroreflective Backplate 4S as each individual backplate acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.048	Retroreflective Backplate 3S	EACH
SPV.0060.049	Retroreflective Backplate 4S	EACH

Payment is full compensation for furnishing and installing the retroreflective borders.

84. Underwater Substructure Inspection, Item SPV.0060.050.

A Description

This special provision describes providing underwater substructure inspections of the Babcock Park Lock and Dam substructure footings and potential scour/undermining.

B (Vacant)

C Construction

Provide a diver who, under the direction of the engineer, will document existing scouring or undermining at the Babcock Park Lock and Dam.

Provide a video monitor and video camera, along with two-way audio communications with the diver during the inspection and record the video and audio.

Perform underwater dive inspections at the following times:

- Prior to construction activities
- After installation of walls R-13-383
- After installation of walls R-13-385
- After pile driving at south abutment
- After pile driving at north abutment
- After completion of all construction activities
- As directed by the engineer

D Measurement

The department will measure Underwater Substructure Inspection once for each individual unit, acceptably completed. The entire Dam substructure location is considered a unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.050	Underwater Substructure Inspection	EACH

Payment is full compensation for all diving inspections and reporting; and for supplying video and two-way audio communications equipment and recorded electronic video and audio files.

85. Settlement Monitoring, Item SPV.0060.051.

A Description

This special provision describes providing settlement monitoring of the existing Babcock Park Lock and Dam.

B Materials

B.1 General

Provide survey targets to affix to the surface of the Dam at the following locations:

- Upstream side of each lift gate
- Downstream side of each lift gate
- Top corners of each lift gate (left and right)
- Every 5 feet along the top surface of structure walls and catwalks both directions (parallel and perpendicular to flow)

Utilize survey equipment for control and monitoring with an accuracy of 0.01'. GPS quality is not acceptable.

B.2 Submittals

B.2.1 Monitoring Plan

Submit a detailed monitoring plan for review and approval to the engineer a minimum of thirty (30) calendar days prior to beginning of any work that will induce vibrations or soil displacement near the Babcock Park Lock and Dam.

C Construction

C.1 Monitoring Program

The Monitoring Plan shall at a minimum include the following:

Schedule for obtaining readings:

- Baseline Monitoring: Prior to any construction activities, obtain initial readings at all survey target locations to establish baseline conditions.
- Cofferdam Installation: If sheet piling is used for cofferdams, record readings at each designated monitoring location along the dam, one at the start of daily activities, one for every 5 sheets installed, and one near the end of daily construction activities.
- Permanent Sheet Pile Wall Construction (R-13-383, R-13-384, R-13-385): During wall construction, record daily readings at each designated monitoring location along the dam, one at the start of daily activities, one for every 5 sheets installed, and one near the end of daily construction activities.
- Bridge Pile Foundation Driving: Obtain readings before pile driving begins, after each individual bridge pile is driven, and at the end of pile driving operations.
- Ongoing Monitoring: Conduct weekly readings throughout the duration of any construction activities within 100 foot radius of the Babcock Park Lock and Dam to track gradual settlement trends and verify structural stability.
- Post-Construction Monitoring: After completion of construction take final readings to assess post-construction settlement.

Monitor the existing structure for settlement and/or lateral displacement during adjacent excavation, sheet pile installation, pile driving, or other activity as directed by the engineer.

Settlement Limits: Ensure that construction activities do not result in any differential settlement that causes structural damage or affects the functionality of the dam, lock, or associated infrastructure. The contractor is responsible for monitoring and mitigating settlement impacts throughout the duration of the project. Any observed movement that compromises structural integrity or operational performance will be considered unacceptable and subject to corrective action at the contractor's expense.

Develop a plan view showing the location of all monitoring points, subject to the requirements of subsection C.1.2.

C.1.2 Targets

Affix monitoring targets as described in subsection B.1. Placement shall be verified by the engineer and coordinated to remain accessible during construction. Remove targets once monitoring phase is complete.

Survey targets shall remain in place and be monitored through the completion of bridge and wall construction activities.

C.1.3 Execution

Establish a benchmark in the vicinity of the construction location that will not be adversely impacted by project work or other activities. Monitor the benchmark on the same schedule as the dam monitoring points.

Process survey data (target location, elevation, date, time, and other relevant information) into an easy-to-interpret digital format and submit to the engineer upon request. Format the document to keep all prior survey results in one, easy to reference location. Use the vertical survey datum specified on the plans when establishing elevations.

Conduct monitoring in accordance with the approved Monitoring Plan, which shall include at minimum the requirements outlined in subsection C.1.

C.2 Contingency Measures

The contractor is responsible for identifying and responding to any movement that may compromise the structure. Once movement is observed that may warrant contingency action, the contractor will immediately evaluate the situation, determine the appropriate contingency response, and consult with the engineer for confirmation. If movement progresses to a level that may cause structural damage or affect the functionality of the dam, the contractor will halt all project work. The engineer may require immediate implementation of specific contingency measures based on observed conditions.

D Measurement

The department will measure Settlement Monitoring once for each individual unit, acceptably completed. The entire Babcock Park Lock and Dam location is considered a single unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.051	Settlement Monitoring	EACH

Payment is full compensation for costs for supplying, affixing, and removing targets; surveying and recording horizontal and vertical deflections; reporting deflections.

86. Field Office Special, Item SPV.0060.052.

A Description

This special provision describes furnishing, equipping, and maintaining field office facilities.

B Materials

If providing an existing office building, or an existing building converted to office-type use, obtain engineer approval beforehand. Ensure that the building meets all applicable health, fire, and building codes and standards. Provide first aid kits, fire extinguishers, and all other supplies required to meet all applicable health, fire, and building codes and standards. Locate the field office within 2 miles of the project limits, or as approved by the engineer.

Provide; maintain in clean good working condition; and stock lavatory with sanitary supplies, including a sufficient supply of soap; hand sanitizer; toilet paper; and paper towels for the duration of the contract. The on-site sanitary facilities must meet Federal, State, and local health department requirements at all times. Equip these facilities with suitable natural and artificial lighting. Also provide adequate heating and air conditioning equipment and fuel necessary to maintain a temperature range from 68 degrees F to 80 degrees F during the hours occupied.

Equip:

- Doors and windows with locks.
- Exterior doors with dead bolt locks.
- Windows with exterior screens to allow adequate ventilation.

Furnish a facility with approximately 1,000 square feet of interior useable floor space including a meeting room capable of accommodating regularly scheduled meetings of 10 people, a 4' x 8' white board with dry erase markers and erasers. A 65" or larger HD television/monitor with at least one HDMI connection, and a USB/Bluetooth capable speaker-phone compatible with Microsoft TEAMS or teleconference meetings. Clean, maintain, and supply the field office and sanitary facilities weekly; and equip with the following:

- Six suitable office desks with drawers and locks.
- Six ergonomically correct office chairs with five-legged base with casters and high back rest in working condition according to standard spec 642.2.2.1(5)
- One 4-drawer file cabinets
- Four 2.5' x 5' (minimum) tables
- Four 4' x 8' (minimum) tables for the meeting room
- Ten or more folding chairs

Provide and maintain an adequate supply of bottled drinking water.

Provide unlimited high-speed internet service for exclusive department use via cable or DSL connection with a modem/router and capable of supporting cloud enabled file sharing, voice over internet protocol (VoIP), video conferencing, and web-based applications. Ensure that the system meets the following:

- Includes a wireless network for the field office.
- Can accommodate IPsec based VPN products.
- Has a broadband bandwidth range with minimum connection speed of 200 Mbps per user download and 20 Mbps upload.

Provide one new Windows 10 compliant, high-capacity color printer/photocopier/scanner that uses toner (not ink) and with the following capabilities:

- Printing and copying both 8.5" x 11" and 11" x 17" paper with the ability to perform duplexing, sorting, stapling, and multiple sheet auto feeding.
- Scanning black and white and color documents on both 8.5" x 11" and 11" x 17" paper at a minimum of 1200 dpi.
- Producing a PDF of a copied or scanned document.
- Has a direct connection or field office wireless network connection, as approved by the engineer.

Replenish paper, toner cartridges, and other supplies before fully expended.

Maintain the field office equipment as requested by the engineer.

Provide clearly marked recycling and waste receptacles within the field office, and separate recycling and waste dumpsters near the field office. Cover outdoor containers to keep out rain and snow. Provide regularly scheduled recycling and waste pick-up.

Include an adjacent, no-fee, lighted parking lot large enough to accommodate the needs of the field office at peak usage, as approved by the engineer. Maintain the parking lot and egress, including snow removal.

C Construction

Do not combine field offices, or combine them with, or attach them to, any buildings used by the contractor, unless the engineer allows in writing. The contractor may furnish, if the contract allows, the field offices jointly in cooperation with other contractors on designated projects.

Do not begin construction operations requiring the use of the field office by the department until the required field office is approved by the engineer, furnished, fully equipped, and made ready for use as the engineer directs.

Make the field office available for the department until the engineer approves its closure. The field office is for the sole use of the department and upon contract completion remains the contractor's property.

D Measurement

The department will measure Field Office Special as each individual field office, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.052	Field Office Special	EACH

Payment is full compensation for providing, equipping, securing, cleaning and maintaining the facility and associated parking lot; for recycling and waste pick-up; for telecommunications and internet equipment, installation, and service fees; and for providing all incidentals, including bottled water, refrigerator/freezer, microwave, utilities, fuel, safety, ventilation, toilet facilities, and office supplies as required, either independently or jointly, for the time specified in section C.

87. Construction Staking Staging, Item SPV.0060.053.

A Description

This special provision describes construction staking required to establish horizontal and vertical positions of temporary pavements required for traffic staging and horizontal positions of temporary pavement markings required for traffic staging.

B (Vacant)

C Construction

Follow the requirements of standard spec 650.3.1.

Set initial construction stakes of reference marks to establish locations of construction staging temporary pavements, including locations of removals indicated on the traffic control plan details. During temporary pavement construction, set and maintain stakes or reference marks to support methods of construction operations.

Set construction stakes or reference marks to establish locations of temporary pavement markings indicated on the traffic control plan details. During temporary pavement markings operations, set and maintain stakes or reference marks to support methods of construction operations.

D Measurement

The department will measure Construction Staking Staging as a single unit for all construction staging layouts acceptably completed on the project.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.053	Construction Staking Staging	EACH

Payment is full compensation for locating and setting all construction stakes or reference points; for relocation and resetting damaged or missing construction stakes or reference points.

- 88. Existing Sanitary Sewer Reconnection, Item SPV.0060.201;
Discontinue Existing Sanitary Manhole, Item SPV.0060.202;
Sanitary Manhole Casting, Item SPV.0060.203.; Existing Water Main Reconnections, Item SPV.0060.204;
Existing Water Valve Box Adjustment, Item SPV.0060.205;
Utility Crossing Water Main Insulation, Item SPV.0060.206;
New Hydrants Item SPV.0060.207;
Existing Hydrant Removals Item SPV.0060.208;
6" Valves and Boxes Item SPV.0060.209;
Water Main Offset, Item SPV.0090.210;
Temporary Sewer Bypassing and Connections, Item SPV.0060.211.**

A Description

This special provision describes Existing Sanitary Sewer Reconnection. The work under this item will be in accordance with the provisions of Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin", May 15, 2026. This specification is available by contacting the Village of McFarland, 5915 Milwaukee Street, McFarland, WI 53558, or by calling (608) 838-3153.

B Materials

Furnish materials that are in accordance with the requirements of Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

C Construction

Construct items in accordance with the requirements of Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

D Measurement

The department will measure by the methods described in Section 33 31 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.201	Existing Sanitary Sewer Connection	EACH
SPV.0060.202	Discontinue Existing Sanitary Manhole	EACH
SPV.0060.203	Sanitary Manhole Casting	EACH
SPV.0060.204	Existing Water Main Reconnections	EACH
SPV.0060.205	Existing Water Valve Box Adjustments	EACH
SPV.0060.206	Utility Crossing Water Main Insulation	EACH
SPV.0060.207	New Hydrants	EACH
SPV.0060.208	Existing Hydrant Removals	EACH
SPV.0060.209	6" Valves and Boxes	EACH
SPV.0090.210	Water Main Offset	EACH
SPV.0060.211	Temporary Sewer Bypassing and Connections	EACH

Payment is full compensation for all work required by the provisions of Section 33 31 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

89. Reconstruction/Adjust Manhole, Item SPV.0060.301.

A Description

This special provision describes the reconstruction of existing sanitary sewer manholes owned and operated by the Madison Metropolitan Sewerage District. Work shall conform to WisDOT Standard Section 611 except as modified in this special provision. The work under this bid item shall consist of removal and disposal of existing sanitary manhole covers including frame, lid and adjustment rings, removal and salvage of existing manhole flat top, removal of existing barrel sections, installation of new barrel sections, reinstalling existing flat top and/or providing and installing new flat top, grade rings and adjustment to temporary grades. Work includes all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

B Materials

B.1 Sanitary Sewer Joint Material

Sanitary sewer manhole joint material shall be non-hardening butyl rubber sealant with a minimum thickness of $\frac{3}{4}$ inch, typical. Butyl rubber gaskets shall be preformed, high adhesion material, packaged ready for use between protective paper strips.

B.2 Joint Wrap

Each horizontal joint shall be sealed with an external rubber sleeve (9-inch min. width), MacWrap or approved equal. The seal shall be made of a stretchable, self-shrinking, intra-curing halogenated-based rubber with a minimum thickness of 30 mils. The back side of each unit shall be coated with a cross-linked reinforced butyl adhesive. The butyl adhesive shall be a non-hardening sealant with a minimum thickness of 30 mils. The seal shall be designed to stretch around the joint and then overlapped creating a cross-link and fused bond between the rubber and butyl adhesive.

B.3 Sanitary Manhole Flat Tops

New precast concrete flat tops shall be provided with a 24-inch diameter eccentrically located access opening.

B.4 Steps

Where shown on drawings or to match existing conditions, manhole barrel riser sections shall include steps. Steps shall be M.A. Industries or approved equal and be constructed of a 1/2-inch diameter, Grade 60 reinforcing steel bar conforming with STM A615 completely encased in polypropylene conforming with ASTM D4101 to obtain a minimum thickness of 1 1/8 inch and a minimum width of 12 inches. They shall be securely and permanently set in the manhole wall. Steps shall be 16 inches on center and have a 5 3/4-inch projection from the wall. Steps shall conform with ASTM F783.

C Construction

C.1 Reconstructing Manholes

Where the plans show and the contract provides, reconstruct existing manholes to the required lines and elevations as shown, including the salvaging and resetting of existing flat tops, except where the contract requires new flat tops. The opening in new sanitary sewer manhole flat top shall oriented as specified on the plans. Anticipated MMSD manholes 09-101 and 102 will be adjusted for the temporary pavement prior to final pavement. Adjustments may consist of adjusting the existing manhole frame structure and/or the removal of barrel sections to meet the temporary pavement grade elevations.

C.2 Joint Wrap

Expose the area to be sealed and clean the entire area around the joint with a wire brush and whisk broom. Remove any sharp protruding edges around the joint with an abrasive tool. When finished cleaning the entire area must be dry and free of any dirt. Remove the first foot of paper backing from the mastic. Center and place the joint wrap around the joint. Continue to remove the paper backing as you apply the joint wrap to the entire structure.

Seal the overlapping area with a 6-inch minimum overlap. Be sure not to stretch material at the overlap area. Cut excess material using a utility knife. Using a rubber mallet or hand roller, firmly flatten the joint wrap 360 degrees around the joint.

C.3 Protection

Barrel sections shall be uniformly backfilled, compacted, and protected throughout construction to prevent lateral/horizontal displacement of manhole barrel and flat top joints. contractor's proposed mechanical joint displacement prevention method shall be approved by the MMSD site representative and Engineer.

D Measurement

The department will measure Reconstruction/Adjust Manhole as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.301	Reconstruction/Adjust Manhole	EACH

Payment is full compensation for providing required materials, including precast masonry and fittings; for salvaging and reinstalling existing flat tops or replacing existing flat top, including joint sealing and waterproofing; for necessary excavation, backfilling, and protection.

90. Manhole Covers Type J-Special, Item SPV.0060.302.

A Description

This special provision describes manhole covers to be installed on existing, new or reconstructed sanitary sewer manholes owned and operated by the Madison Metropolitan Sewerage District. Work shall conform to WisDOT Standard Section 611 except as modified in this special provision.

B Materials

B.1 Frames and Covers

1. Frames, covers and gratings shall be of the type and duty as shown in the Contract Documents. Iron castings shall conform to ASTM A48, Class 20. All castings shall be true to pattern in form and dimensions, free from faults, sponginess, cracks, blow holes, and other defects affecting their strength.
2. MMSD standard manhole castings shall be per Contract Documents
3. Sanitary manhole covers, consisting of frame and lid, shall be provided as shown on drawings. Manhole lids shall be cast with the words "MADISON METROPOLITAN SEWERAGE DISTRICT".

B.2 Sealant

Adhesive or sealant used for watertight installation of the manhole grade adjustment rings shall meet manufacturer specifications and the requirements of ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A and O Federal Specification TT-S-00230-C Type II, Class A. Adhesive sealant shall be used between the precast concrete and adjustment rings as well as between the adjustment rings and manhole casting. Adhesive sealant shall bond to concrete.

C Construction

Provide and adjust the casting prior to roadway paving to be approximately ¼-inch below the finished pavement grade. Manhole 09-106 was previously coated with Raven 405 Epoxy on the interior of the manhole to the bottom of the lid. Prior to casting removal and adjustment, the coating will have to be cut in a straight line below the casting or top deck. Cutting the liner will be paid under the Manhole Coating Repair item. Upon completion of the adjustment, coat the interior of the manhole with an approved product and paid as a separate item.

D Measurement

The department will measure Manhole Covers Type J-Special as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.302	Manhole Covers Type J-Special	EACH

Payment for the Manhole Covers Type J-Special is full compensation for removing and disposing of the existing covers; and for providing new covers, including frames and lids, grade rings, sealant, and other materials required to install and adjust each cover to final grade.

91. Manhole Rehabilitation, Item SPV.0060.303.

A Description

The work under this section shall cover all materials, equipment, labor and supervision necessary for sanitary sewer manhole interior rehabilitation for the purpose of eliminating infiltration and inflow, providing corrosion protection, repair of cracks and voids, and exterior minimal barrel section adjustments as indicated on the contract drawings and as specified herein.

A.1 Submittals

Submit such product literature and catalog cuts of materials to be supplied to relate these materials to these specifications.

- Submit technical data sheets on each product used, including ASTM test results indicating the product conforms to and is suitable for its intended use per these specifications.
- Material Safety Data Sheets (MSDS) for each product used.

A.2 Quality Assurance

Furnish materials of quality required by ASTM standards or other approved standards and specification.

Repair product(s) shall be fully compatible with coating product(s) including ability to bond effectively to the host substrate and coating product(s) forming a composite system.

A.3 Delivery, Storage and Handling

Prevent moisture damage and contamination of materials during delivery and handling.

Store materials in undamaged condition with seals and labels intact as packaged by the manufacturer. Liquid products shall be protected from freezing while being stored.

A.4 Warranty

Provide guarantee against defective materials and workmanship in accordance with the requirements of these specifications.

B Materials

B.1 Void Repair

A quick-setting, fiber reinforced, calcium aluminate-based cementitious material shall be used for patching and filling voids and cracks.

Material shall have the following minimum requirements:

Compressive Strength (ASTM C109)	1,400 psi @ 6 hr
Shrinkage (ASTM C596)	0% @ 90% R.H.
Bond (ASTM C321)	150 psi @ 28 day
Cement	Sulfate resistant
Density, when applied	105 ±5 pcf

B.1.1 Bonding Compound

Material shall be a modified cementitious bonding compound that protects exposed reinforcement steel and enhances bond of overlay to substrate.

B.1.2 Water

Water shall be clean and potable.

C Construction

C.1 Manhole Preparation

Care shall be taken to ensure the new or existing manhole is adequately prepared for application of the coating system. Follow manufacturers recommendations and as described below.

New concrete manholes, barrel sections and repairs on existing manholes shall cure for 28 days or meet manufacturers recommended minimum cure time or concrete strength. Freshly installed mortars are to be prepared by pressure washing at 3,500 psi sufficiently to remove loose dust and debris

Conduct surface preparation program to include monitoring of atmosphere for hydrogen sulfide, methane, low oxygen or other gases, approved flow control equipment, and surface preparation equipment.

Place covers over sewer inverts to prevent extraneous material from entering the sewer lines.

Remove foreign, loose and unsound concrete and masonry material from the flowline to and including the manhole opening. Surface preparation methods may include high pressure water cleaning (1,500 psi minimum), hydro blasting, abrasive blasting, grinding, detergent water cleaning and shall be suited to provide a surface compatible for installation of the coating system.

Clean the interior surfaces of the manhole with high pressure water spray, using detergent, muriatic acid, antibacterial agent or other chemicals to remove grease, oil and other contaminants that would prevent good bond between the existing manhole interior surface and the coating material.

Surface preparation method shall produce a cleaned, abraded and sound surface with no evidence of laitance, loose concrete, brick or mortar, contaminants or debris, and shall display a surface profile suitable for application of coating system.

Active hydrostatic leaks (infiltration) shall be stopped using hydrophobic and/or hydrophilic polyurethane chemical grout.

Severe cracks shall be repaired with a urethane-based chemical sealant. Product to be utilized shall be as approved by MMSD/engineer prior to installation.

Clean and prepare exposed reinforcement steel, and apply and cure bonding compound, compatible with polyurea coating product manufacturer's instructions and recommendations.

Prepare voids in all manhole surfaces including manhole bench, barrel sections, chimney, and opening to be patched and filled. Repair materials shall be compatible with the polyurea coating and shall be applied in accordance with the manufacturer's recommendations.

C.2 Installation

Application procedures shall conform to recommendations of the manufacturer, including materials handling, mixing, environmental controls during application, safety and spray equipment.

C.3 Cleaning

Clean manhole interiors and remove all construction-related materials, equipment and appliances from the manholes prior to reinstatement of the manholes to service.

C.4 Benches and Channels

Preparation

- Whenever possible, bypass plugs will be installed in all the inlets and plumbed into the outlet, allowing flow to pass through the structure without interference with bench and channel repairs.
- All loose or deteriorated material must be removed.
- Bench material will be removed to allow a minimum of 2 inches of new concrete to be placed around the circumference of the manhole and over the existing bench at a point half the depth of the outlet invert and tapered up to the wall.

A forming system shall be used to provide a perfect flow line from the invert of the inlet pipes to invert of the outlet pipe. Where laterals are involved, the system shall provide for a sanitary sweep into the main invert in a perfect flow line from the invert of the inlet lateral to the invert of the outlet pipe. Invert channels shall be smooth, accurately shaped.

New concrete shall be placed, to a minimum 2 inches thickness, over solid concrete properly prepared as specified. Where solid concrete does not remain after preparation, new concrete shall be poured to a minimum 4 inch thickness. Concrete shall be placed forming an invert depth half the diameter of the outlet pipe. Once installed, the new concrete shall be allowed to cure a minimum of 24 hours before flow can pass directly over the new concrete.

The new bench shall be tapered up to the manhole wall. No horizontal surfaces shall be left on the inside of the manhole floor. The floor shall be shaped to drain into the floor channel.

New concrete benches shall be prepared, cleaned and coated with the selected lining system as prescribed above.

C.5 Inside Drops

Where shown, inside drops shall be installed in accordance with the contract drawings. Provide submittal for alternative products and receive written approval from MMSD/Engineer prior to installation.

C.6 Structural Repair

Areas of manholes that are found to be structurally damaged and in need of repair beyond the scope of this specification shall be brought to the attention of the Engineer. A suitable repair method shall be developed for each area and submitted to the Engineer for review prior to commencing the repair.

C.7 Manhole Section Replacement

Remove and replace the small top sections of manholes as noted on the plans. Dispose of the existing section and existing rings and replace with new concrete precast riser section.

D Measurement

The department will measure Manhole Rehabilitation as each individual manhole acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.303	Manhole Rehabilitation	EACH

Payment for the Manhole Rehabilitation for Concrete Manholes is full compensation for cleaning and rehabilitating the manholes throughout the project.

92. Manhole Liner, Item SPV.0060.304; Manhole Coating Repair, Item SPV.0060.305; Junction Chamber Liner, Item SPV.0060.306.

A Description

The work under this section shall cover all materials, equipment, labor and supervision necessary for sanitary sewer manhole restoration of the structural integrity of sanitary sewer manholes resulting from the application of a monolithic lining system to the manhole wall, ceiling and bench surfaces of concrete, brick or any other masonry construction material, chimney and/or flat top opening, as indicated on the contract drawings and as specified herein.

A.1 Submittals

Submit such product literature and catalog cuts of materials to be supplied to relate these materials to these specifications.

1. Submit technical data sheets on each product used, including ASTM test results indicating the product conforms to and is suitable for its intended use per these specifications.
2. Material Safety Data Sheets (MSDS) for each product used.
3. Provide samples of the cured system including stepped samples showing stages of multi-layer/component applications.
4. Provide documentation of the manufacturers recommended process and procedures for proper manhole preparation and lining system installation.
5. Provide documentation that the proposed manhole lining system has a minimum 5-year history of successful performance in sanitary sewer manholes on projects of similar size and scope.
6. Applicator qualifications specializing in the performance of work specified in this section with a minimum of three (3) years documented experience and 3,000 vertical feet of application.

A.2 Quality Assurance

Coating material shall be produced in an ISO 9001 certified facility.

Furnish materials of quality required by ASTM standards or other approved standards and specification.

Coating products shall be capable of being installed and curing properly within the specified environments. Coating products shall be resistant to all forms of chemical or bacteriological attack found in municipal sanitary sewer systems and capable of adhering to the substrates and repair products.

Coating products must have been tested by and passed ASTM G210-13 Severe Wastewater Analysis Testing (SWAT) or similar testing.

Repair product(s) shall be fully compatible with coating product(s) including ability to bond effectively to the host substrate and coating product(s) forming a composite system.

Use equipment for the spray application of the coating product(s) that has been approved by the coating product manufacturer, and the contractor must have received training on the operation and maintenance of that equipment from the coating product manufacturer.

The contractor must be trained by, or have training approved and certified by, the coating product manufacturer for the handling, mixing, application, and inspection of the coating product(s) to be used as specified herein.

The contractor must be trained in the use of testing or inspection instrumentation and be knowledgeable in the proper use, preparation, and installation of the coating products to be used as specified herein.

A.3 Delivery, Storage and Handling

Prevent moisture damage and contamination of materials during delivery and handling.

Store materials in undamaged condition with seals and labels intact as packaged by the manufacturer. Liquid products shall be protected from freezing while being stored.

A.4 Warranty

Provide guarantee against defective materials and workmanship in accordance with the requirements of these specifications.

Correction Period: 5 years.

B Materials

B.1 Polyurea Coating System Materials

Polyurea protective lining systems, where approved, shall be a multi-layer/component protective lining system consisting of:

- Polyurea Adhesion Coating
- Polymer Surfacer Layer
- Final Polyurea Armor Layer

Polyurea manhole coating system shall be OBIC, or approved equal.

B.2 Polyurea Coating System Armor Layer

100% solids, no volatile organic compound (VOC), moisture tolerant, elastomeric polyurea coating to provide infiltration and corrosion protection. Material shall be capable of curing properly given the project site conditions and temperatures conforming to the following minimum physical requirements:

<u>Property</u>	<u>Value</u>
Hardness, D-2240	D 48
Tensile strength, D-412	3315 psi
100% Modulus, D-412	1668 psi
200% Modulus, D-412	1960 psi
300% Modulus, D-412	2650 psi
Tear resistance/DIE-C, D-624	417 pli
Ultimate elongation, D-412	395 %
Taber Abrasion, mg loss CS17	15 mg loss
Flexibility, 1/8" mandrel	Pass
ASTM G210-13 SWAT	Pass

B.3 Polyuria Coating System Surfacers Layer

100% solids, no volatile organic compound (VOC), moisture tolerant, elastomeric polyurethane coating to provide infiltration and corrosion protection. Material shall be capable of curing properly given the project site conditions and temperatures conforming to the following minimum physical requirements:

<u>Product Type</u>	<u>Value</u>
Density (ASTM D – 1622	6-8 pcf
Compressive Strength 1"	130-180 psi
Closed Cell Content	> 94%
Water Absorption	< 0.03 lbs/sqft
Maximum Service Temp	180 deg
Viscosity (A side) @ 72 deg F	675 cps
Viscosity (B side) @ 72 deg F	200 cps

B.4 Geopolymer Lining System Materials

Geopolymer lining system materials shall be Quadex GeoKrete, or approved equal.

When more than one cementitious product is used in composite with other(s), all materials shall be supplied by the same Manufacturer.

B.5 Geopolymer Physical Properties

The Geopolymer Liner material shall be a factory blended, one-component (just add water), eco-friendly, micro-fiber reinforced, ultra-dense geopolymer mortar synthesized from reactive SiO₂ and Al₂O₃ from industrial byproducts, enhanced with monocrystalline quartz aggregate. This material shall be formulated to restore structural integrity while eliminating the infiltration of groundwater, provide enhanced corrosion resistance and shall be specifically formulated for ease of mechanical pumping, spraying and spin casting.

The Geopolymer Liner material shall be formulated to produce a liner with improved compressive and flexural strength, high adhesion to damp surfaces, lower permeability and increased resistance to aggressive chemical attack.

The fiber reinforced formula shall improve chemical resistance and hydraulic abrasion resistance, provide dimensional stability and protect against penetration by substances such as fats, oils, grease, gases and chloride ions.

The finished infrastructure must be such that once the Geopolymer Liner sets, the total liner thickness will be homogeneous and monolithic.

The Geopolymer Liner material shall conform to the minimum requirements obtained through the performance of independent third-party laboratory testing following ASTM Standards performed under standard laboratory conditions. Field tested material properties will meet or exceed listed values. Material properties utilized in design engineering shall be equal or lesser of the following values:

<u>Property</u>	<u>Value</u>
Set Time	Min. Initial 60 mins Max. Final 240 mins
Compressive Strength	Min. 8,000 psi @ 28 days
Flexural Strength	Min. 800 psi @ 28 days
Density	Dry 90 – 110 lb/ft ³ Wet 135 – 145 lb/ft ³
Chemical Resistance, Sulfuric Acid pH 1.0	Max 1.0% mass loss @ 12 weeks
Modulus of Elasticity	Min. 5,400,000 psi @ 28 days
Split Tensile Strength	Min. 900 psi @ 28 days
Freeze Thaw Durability	Max 0.1% Loss @ 300 cycles
Bond Strength to Concrete	Min. 3,000 psi @ 28 days
Shrinkage Test	Max 0.02% @ 28 days

Abrasion Resistance

Max 1.5% Weight Loss @ 6 cycles on 28-day sample

Rapid Chloride Ion Permeability

Very Low @ 28 days

B.6 Geopolymer Liner Thickness Design

Signed and sealed designs shall be prepared and submitted by a Qualified Engineer, licensed in either the state of liner application or in the state in which the headquarters of the liner Manufacturer is located, in the following conditions:

- Manholes/Boxes/Wet Wells/Structures – When structure is not circular and/or exceeds 25 VF or greater in depth as measured from top of ground at the rim on the manhole to invert or when diameter exceeds 8 FT.
- When depth is less than 25 VF, and diameter is less than 8 FT, manufacturers recommended minimum thickness of 1-inch shall be used.
- Other infrastructure – As directed by MMSD/Engineer in project plans and specifications.

The thickness calculations are site specific and involve careful consideration of loading conditions that are applicable to those for the construction phase and long-term service of the infrastructure in question. Therefore, such design steps or simpler equations cannot be presented in cases where a Qualified Engineer is required. In these cases, a Qualified Engineer, experienced in infrastructure liner design, should provide a stamped design thickness report, showing the assumptions made, input data used, design principles employed and the results of the calculations that would meet the standard of care, expected of professionals practicing in the same region and time period.

The Certified Applicator/contractor must submit manufacturer's minimum recommended thicknesses or liner thickness calculations to the MMSD/Engineer for review. Thickness or calculations shall substantiate sufficient liner thickness to achieve desired 50-year service life.

The Certified Applicator/contractor must submit their proposal based upon the appropriate length, size, design life and host infrastructure design parameters as presented below:

<u>Design Parameter</u>	<u>Value</u>
Manhole / Diameter	Circular/72 inch
MH Material	Concrete
Bury Depth	5-20 feet
Level of Deterioration	New Construction
Live Loading Conditions	HS20
Soil Density	120 pcf
Ground Water Elevation	4 - 6 Feet
Junction Chamber	Rectangular/7 feet by 8 feet
Material	Concrete
Bury Depth	17.5 feet
Level of Deterioration	New Construction
Live Loading Conditions	HS20
Soil Density	120 pcf
Ground Water Elevation	8 Feet

C Construction

C.1 Manhole Preparation

Care shall be taken to ensure the new or existing manhole is adequately prepared for application of the coating system. Follow manufacturers recommendations and as described below.

New concrete manholes, barrel sections and repairs on existing manholes shall cure for 28 days or meet manufacturers recommended minimum cure time. Freshly installed mortars are to be prepared by pressure washing at 3,500 psi sufficiently to remove loose dust and debris

Conduct surface preparation program to include monitoring of atmosphere for hydrogen sulfide, methane, low oxygen or other gases, approved flow control equipment, and surface preparation equipment.

Place covers over sewer inverts to prevent extraneous material from entering the sewer lines.

Remove foreign, loose and unsound concrete and masonry material from the flowline to and including the manhole opening. Surface preparation methods may include high pressure water cleaning (1,500 psi minimum), hydro blasting, abrasive blasting, grinding, detergent water cleaning and shall be suited to provide a surface compatible for installation of the coating system.

Clean the interior surfaces of the manhole with high pressure water spray, using detergent, muriatic acid, antibacterial agent or other chemicals to remove grease, oil and other contaminants that would prevent good bond between the existing manhole interior surface and the coating material.

Surface preparation method shall produce a cleaned, abraded and sound surface with no evidence of laitance, loose concrete, brick or mortar, contaminants or debris, and shall display a surface profile suitable for application of coating system.

Active hydrostatic leaks (infiltration) shall be stopped using hydrophobic and/or hydrophilic polyurethane chemical grout.

Severe cracks shall be repaired with a urethane-based chemical sealant. Product to be utilized shall be as approved by MMSD/engineer prior to installation.

Clean and prepare exposed reinforcement steel, and apply and cure bonding compound, compatible with polyurea coating product manufacturer's instructions and recommendations.

Prepare voids in all manhole surfaces including manhole bench, barrel sections, chimney, and opening to be patched and filled. Repair materials shall be compatible with the polyurea coating and shall be applied in accordance with the manufacturer's recommendations.

C.2 Installation

Application procedures shall conform to recommendations of the manufacturer, including materials handling, mixing, environmental controls during application, safety and spray equipment.

Spray equipment shall be specifically designed to accurately ratio and apply the coating system.

Spray apply coating mix to prepared surfaces including manhole ceiling, access opening, wall and bench surfaces and allow coating to cure in accordance with the product manufacturer's instructions and recommendations.

The application of a multi-layer/component polyurea coating system shall be completed in three layers consisting of:

- Adhesion Layer (Not intended to fill small voids)
- Surfacer Layer (intended to fill voids)
- Armor Layer

Each layer shall be applied in strict accordance with manufacturer's recommendations. The final polyurea lining system shall be at the specified 0.5 inch minimum thickness.

The application of a geopolymer liner shall be completed in a single layer with a uniform minimum thickness no less than 1-inch, or design thickness indicated by contractor/manufacturer's qualified engineer.

The finished liner in manhole access openings shall be no greater than a 0.75 inch thickness.

Liner materials around pipe penetrations and geometric structure changes shall be hand applied.

C.3 Cleaning

Clean manhole interiors and remove all construction-related materials, equipment and appliances from the manholes prior to reinstatement of the manholes to service.

C.4 Benches and Channels

Preparation

- Whenever possible, bypass plugs will be installed in all the inlets and plumbed into the outlet, allowing flow to pass through the structure without interference with bench and channel repairs.
- All loose or deteriorated material must be removed.
- New concrete benches shall be prepared, cleaned and coated with the selected lining system as prescribed above.

C.5 Coating Repair

Manhole 09-106 was previously coated with Raven 405 Epoxy on the interior of the manhole to the bottom of the lid. Prior to the casting removal and adjustment, the coating will be required to be cut in a straight line below the casting or top deck.

Following the manhole adjustment, the top portion of the manhole from where it was previously cut will need to be coated again following the procedures herein. Work with the existing liner in order to provide a consistent liner throughout the manhole upon completion.

C.6 Inspection

Visual inspection and testing shall be made by the MMSD/Engineer. MMSD will require manholes to be inspected prior to applying coating/liner and after installation. Work with MMSD to schedule inspections. Manholes will need to be dried to post installation inspection if the inspection cannot be completed the next day after installation. Any deficiencies in the finished coating system shall be marked and repaired according to the procedures set forth by Manufacturer.

The final polyurea coating system thickness shall be 0.5 inch (500 mils) and shall be completely free of pinholes or voids.

The final geopolymer liner thickness shall be 1.0 inch (1000 mils) and shall be completely free of pinholes or voids.

Due to the fast gel and set time of the material, thickness of the polyurea application can be verified by awl point depth checks into the surfacer component and physical removal of a small area of the polyurea material. Repair of the test areas to be done immediately after the test.

If requested by MMSD, the contractor will provide high voltage holiday detection equipment for detection of pinholes prior to acceptance. Holiday detection and repairs shall be in strict accordance with procedures set forth by the coating manufacturer

D Measurement

The department will measure the Manhole Liner, Manhole Coating Repair, and the Junction Chamber Liner as each individual structure acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.304	Manhole Liner	EACH
SPV.0060.305	Manhole Coating Repair	EACH
SPV.0060.306	Junction Chamber Liner	EACH

Payment for the Manhole Lining for Concrete Manholes is full compensation for cleaning and lining the manholes throughout the project as a monolithic application.

93. Sanitary Interceptor Manhole 72-Inch, Item SPV.0060.307; Doghouse Manhole 09-106A, Item SPV.0060.308; Junction Chamber 09-108A, Item SPV.0060.309.

A Description

The work under this section shall cover furnishing and installing standard manholes constructed of precast concrete sections, circular in horizontal section set on a concrete base and steps in accordance with the contract drawings and as specified herein and a Junction Chamber that can either be poured-in-place or precast structure. Standard manhole covers, frames, and interior coating is included in separate contract items. Adjustment rings for the new manholes are inclusive to the manhole work. The hatch for Junction Chamber 09-108A is included within the structure item.

A.1 Applicable Publications

The following publications of the issues listed below, but referred to thereafter by basic designation only, form a part of this specification to the extent indicated by the reference thereto.

- American Society for Testing and Materials (ASTM), Annual Book of ASTM Standards:
- ACI 318 – Building Code Requirements for Structural Concrete.

- ASTM A48 - Specification for Gray Iron Castings, Current Edition.
- ASTM A240 - Specification for Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and General Applications, Current Edition.
- ASTM A615 - Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement, Current Edition.
- ASTM A668 - Specification for Steel Forgings, Carbon and Alloy, and for General Industrial Use, Current Edition.
- ASTM C76 - Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe, Current Edition.
- ASTM C478 - Specification for Precast Reinforced Concrete Manhole Sections, Current Edition.
- ASTM C497 - Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile.
- ASTM C890 - Standard Practice for Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures.
- ASTM C913 - Specification for Precast Concrete Water and Wastewater Structures, Current Edition.
- ASTM C923 - Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals, Current Edition.
- ASTM D4101 - Specification for Polypropylene Injection and Extrusion Materials, Current Edition.
- ASTM F593 - Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs, Current Edition.
- ASTM F783 - Specification for Staple, Handgrab, Handle, and Stirrup Rung, Current Edition.
- Code of Federal Regulations (CFR), Title 29, Chapter XVII - Occupational Safety and Health Administration (OSHA), Department of Labor, Part 1926 Regulations, Current Edition.
- Federal Specifications (FS), Specifications and Standards, Current Edition.
- Department of Safety and Professional Services (DSPS), Administrative Code of Rules and Regulations, Current Edition.
- State Department of Natural Resources (DNR), Administrative Code of Rules and Regulations, Current Edition.
- State Standard Specifications (SSS), for Sewer and Water Construction, Current Edition.

A.2 Submittals

Submit such product literature and catalog cuts of materials to be supplied.

Submit shop drawings and details required for the construction and installation of the materials.

Submittals and details shall indicate the intended materials arrangement, dimensions, major support requirements, plot area and intricate or detailed construction requirements.

Prior to the installation of the Junction Chamber 09-108A and Doghouse Manhole 09-106A, the contractor is required to submit their work plan for the structure. Work plan should include: sequencing, type of construction, waterstops, leak prevention, bench information, bar steel reinforcement for cast in place items or shop drawings for precast items, and connection details.

Concrete reinforcing steel submittals shall include a concrete pouring sequence for structures with vertical construction joints.

B Materials

B.1 Acceptable Manufacturers

The products listed are intended to establish a basis for comparison of products of other manufacturers. Substitutions will be permitted but only with the prior written approval of the Engineer. Catalogue reference numbers stated are those of Neenah Foundry Company and are intended to establish a basis for comparing the products of other manufacturers.

B.2 Precast Manhole Sections

Precast concrete manhole sections shall have a minimum inside diameter of 72-inches or as noted on the contract documents. Clear opening shall match dimensions of castings. Compressive strength of the concrete shall be 4000 psi and shall conform to ASTM C478 for round structures and ASTM C913 for square or rectangular structures. Wall thicknesses of round manholes will vary with diameter in conformance with ASTM C76, Class B concrete tongue and groove joint pipe. Larger diameter manholes (7 feet +) shall have wall thickness a minimum of one-twelfth the inside diameter of the manhole as specified in ASTM C478.

Steel reinforcement (sq. in./lin. ft.) shall not be less than 0.0025 times the inside diameter of the manhole in inches.

Flat top slabs and reduction flat top slabs shall be designed in accordance with ACI 318 and designed to withstand the anticipated loads from riser sections, soil and hydrostatic loads, surcharge loads, live loads, and impact loads. Required site specific slab thickness shall be determined by the aforementioned calculations with the following minimum requirements:

- Minimum slab thickness for structures larger than 48-inches in diameter shall be 8 inches or as necessary as required by design calculations

All other design elements for structures shall comply with ASTM C478 and C497 for round structures, and ASTM C913 and ASTM C890 for square or rectangular structures.

All pipe openings in the manholes shall be core drilled.

Verify size, invert elevation, and location of all pipes in existing manholes and inform Engineer of any discrepancies before the replacement manhole is constructed.

B.3 Junction Chamber and Doghouse Manhole

The Junction Chamber can be poured in place or a precast structure, at the contractor's option. A precast structure shall be designed and stamped by a PE and is subject to review and approval. Any additional review or design would be incidental to this bid item.

B.4 Steps

Steps shall be M.A. Industries or approved equal and be constructed of a 1/2-inch diameter, Grade 60 reinforcing steel bar conforming with ASTM A615 completely encased in polypropylene conforming with ASTM D4101 to obtain a minimum thickness of 1 1/8 inch and minimum width of 12 inches. They shall be securely and permanently set in the manhole wall. Steps shall be 16 inches on center and have a 5 3/4 inch projection from the wall. Steps shall conform with ASTM F783.

Steps shall be installed only in particular types of manholes indicated in the Contract Documents.

B.5 Sanitary Sewer Manhole Joint Materials

Sanitary sewer manhole joint materials shall be plastic gasket material or butyl rubber gasket material. Plastic gaskets shall be preformed, high adhesion material, packaged ready for use between protective paper strips conforming to Federal Spec SS-S-00210, Type I, Rope Form; Ram-Nek by K.T. Snyder Company, Inc.; Kent Seal No. 2 or equal. Butyl rubber gaskets shall be preformed, high adhesion material, packaged ready for use between protective paper strips, conforming to Federal Spec SS-S-210A, Rope Form; CPS-210 by Press Seal Gasket Corporation or equal.

Joint Wrap - Each manhole joint shall be sealed with an external strapped joint protection (9-inch min. width) such as MacWrap or approved equal with internal woven polypropylene reinforcement and external sealing bands.

B.6 Waterstop Seals

All pipes connecting to a sanitary manhole shall include an approved watertight rubber boot connection meeting ASTM C-923, and secured to the pipe with a stainless steel band. Waterstop seals shall be PSX: Direct Drive by Press Seal Corporation, Kor-N-Seal I 106 or 406 Series (pipe O.D. less than 15"), Kor-N-Seal II 206 Series (pipe O.D. 15" and greater), QUIK-LOK or Z-LOK connectors by A-LOK Products, Inc. or equal.

All poured in place structural joints, at precast and poured in place joints, and around existing sanitary pipes shall be constructed watertight. Waterstop seals shall be materials such as SikaSwell S-2 (with profile material), Adeka P-201, or approved equal.

B.7 Adjustment Rings

Adjustment rings shall be manufactured from Expanded Polypropylene (EPP), compliant with ASTM D4819 and tested according to ASTM D3575.

Rings shall be available in heights (thicknesses) which will allow final adjustment of the frame and cover or grate to within 1/4" (one quarter inch) to 1/2" (one half inch) of the specified final elevation.

"Finish" Rings shall be provided with grooves on the lower surface and flat upper surface. "Finish" rings may also have a keyway on the upper surface of the inner diameter to facilitate installation of an "Angle" ring, where "Angle" ring is required.

"Angle" rings may either have an upper and lower keyway (tongue and groove) for vertical alignment and/or an adhesive trench on the underside.

Any adhesive or sealant used for watertight installation of the manhole grade adjustment rings shall meet manufacturers specifications and the requirements of ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A and O Federal Specification TT-S-00230-C Type II, Class A.

Adhesive sealant shall be used between the precast concrete and adjustment rings as well as between the adjustment rings and manhole casting. Adhesive sealant shall bond to concrete.

Adjustment rings manufactured by Cretex Pro-Ring, or approved equal.

B.8 Chimney Seals

Manholes with chimneys (not vault doors) are required to have adjustment rings shall be installed using I/I Barriers from Strike Products or approved equal. Installation shall be at the manufacturers recommendations.

C Construction

C.1 Manholes, General

All manholes shall be watertight.

All lift holes on sanitary sewer manholes shall be sealed watertight with mortar and the manhole itself should be watertight. Refer to construction details for acceptable lift holes.

Rubber Boot Openings. All concrete openings for Kor-N-Seal to be factory cored, not factory formed.

Precast reinforced concrete manhole sections shall be subject to rejection for failure to conform to any of the requirements in the Standard Specifications. In addition, individual sections of manhole risers and tops may be rejected because of any of the following conditions:

- Fracture or cracks passing through the wall, except for a single crack that does not exceed the depth of the tongue and groove section joint.
- Defects that indicate imperfect proportioning, mixing, and molding.
- Surface defects indicating honey-combed or open texture.
- Damaged ends, where such damage would prevent from making a satisfactory joint.
- Manhole steps out of line, or not properly spaced.
- Noticeable infiltration into manhole.
- Variation in diameter of the manhole section of more than 1% from the nominal diameter.
- Any continuous crack having a surface width of 0.01 inch or more and extending for a length of 12 inches or more regardless of position in the section wall.

C.2 Backfill

Provide backfill material composed of mechanically compacted granular material conforming to the requirements of SWS 8.43.4.

C.3 Inverts and Benches

Invert channels shall be smooth and accurately shaped and in accordance with the contract drawings.

The bench shall be as shown on the Contract Documents. The bench shall be 75% of the height of the pipe with a maximum height of 24 inches for pipes 24-inches diameter or larger, or to the pipe crown for pipes less than 24-inches in diameter. The bench shall be sloped 1" – 2" per foot. Minimum height from top of bench to deck underside shall be 7 feet.

No horizontal surfaces shall be left on the inside of the manhole. The bench shall be shaped to drain into the floor channel.

C.4 Frames and Covers

Sanitary sewer manholes shall be built up so that the frames and cover, when placed, will be per the finished grade allowing for the appropriate adjustments according to the standard details.

C.5 Access Hatch

C.5.1 Frame

Frames shall be manufactured with a minimum of 1/4 inch thick, one piece aluminum extruded frame, with a continuous concrete anchor and sliding nut rail as part of the one piece extrusion. All aluminum in contact with concrete shall be bituminous coated to prevent corrosion.

Frame shall have a mill finish.

Channel frames required at all occurrences unless otherwise indicated in the contract drawings.

C.5.2 Doors

Doors shall be Halliday Floor Door H20 Rated or equal according to the details. Doors shall be 1/4 inch thick aluminum diamond plate reinforced with aluminum stiffeners. The doors shall open to 90 degrees

and lock automatically in that position with an aluminum positive locking arm and stainless steel lifting handle. The doors shall have lift assisting shocks. Doors shall close flush with the frame.

Doors shall be provided with stainless steel hinges. Hinges shall be bolted to the door and frame with tamper-proof Type 316 stainless steel lock bolts. Doors shall be provided with a stainless steel recessed locking hasp. Recessed enclosure shall be secured in the flush position with a bolt or screw to prevent snagging and damage during snow plowing or similar operations. Locking hasp shall be located in a contained area of the frame or a box that will not allow a lock or key to be dropped through the hatch. The opening into the lock containment shall be a minimum of 3" x 3". Locking hasps that extend above the door shall not be acceptable.

The door shall close flush with the top of the frame, resting on a ½" wide lip around the entire inside of the frame for added support.

Provide 1 1/2-inch drain coupling located in corner of channel. Drain pipe and all fittings shall be PVC or HDPE. Cast iron or ductile iron pipe is not permitted. Doors furnished with a frame drain shall have drain piping supplied by contractor to a suitable location as directed by the Engineer. Submit intended materials for drain piping with vault door submittal.

Doors shall be double leaf, as specified in the model noted on the contract drawings. Door springs and open arms shall not impede on upstream and downstream side of vault, as shown in the contract drawings.

C.5.3 Fall Protection

All aluminum floor/door openings shall be fitted with a permanently installed, fall-through prevention grating system that is easily retractable for access to the opening below. Grating shall be designed to support a live load of 300 PSF. Grate shall be hinged to frame with stainless steel hinges and a hold arm capable of holding grate in the fully open 90-degree position. Grating system shall be factory installed by access door manufacturer. Stainless steel lifting assists and padlock-able hasp required.

Performance Characteristics:

- Grating panel(s) shall be visibility safety yellow in color
- Grating panel(s) shall lock automatically in the full open position.
- Grating system shall have a twenty-five year warranty.
- Grating panel(s) shall have a provision for locking to prevent unauthorized opening.

Grating: Panels shall be aluminum with a powder coat paint finish and designed to meet OSHA29 CFR 1910.23 requirements for fall protection.

Hold Open Feature: A Type 316 stainless hold open device shall be provided to lock the cover in the fully open 90 degree position.

All hardware shall be Type 316 stainless steel.

Grating shall allow for access of sewer cleaning equipment. This access shall consist of a 4" slot between fall protection grating and the hatch frame or provide a minimum of two 4-inch banded opening within the grating. Maximum allowable opening between hatch frame and grating is 6".

C.5.4 Warranty

Vault door units including fall protective grating shall be warranted against defects in materials and workmanship for a period of 25 years.

C.6 Final Adjustment

All castings shall be adjusted prior to paving or restoration depending on the location of the casting to meet the final grades. Final adjusting will be paid on a separate bid item.

C.7 Joint Wrap

Expose the area to be sealed and clean the entire area around the joint with a wire brush and whisk broom. Remove any sharp protruding edges around the joint with an abrasive tool. When finished cleaning the entire area must be dry and free of any dirt.

Remove the first foot of paper backing from the mastic. Center and place the joint wrap around the joint. Continue to remove paper backing as you apply joint wrap to the entire structure.

Seal the overlapping area with a 6-inch minimum overlap. Be sure not to stretch material at the overlap area.

Cut excess material using a utility knife. Using a rubber mallet or hand roller, firmly flatten the joint wrap 360 degrees around the joint

C.8 Plugging of Abandoned Lines

Unless otherwise directed by the Engineer, remove all abandoned pipe lines from each manhole. Pipes shall be plugged as noted on the Contract drawings were being abandoned. Plug shall be watertight. All loose or defective mortar, concrete block, or concrete shall be removed. Abandoned lines shall then be filled with a flowable fill concrete mix such as elastizell or approved equal as noted on the contract documents. Abandoned pipes will be paid as a separate bid item.

C.9 Abandonment of Sewer and Sanitary Sewer Manholes

Sanitary sewer lines to be abandoned shall be filled with a flowable fill concrete mix such as elastizell or approved equal and capped as outlined in the contract documents and will be paid as a separate bid item.

Sanitary sewer manholes to be abandoned or removed as outlined in the contract documents and will be paid as a separate bid item.

Backfill shall conform to the requirements of Trenching and Backfilling of the standard utility construction.

C.10 Inspection

Precast reinforced concrete manhole sections shall be subject to rejection for failure to conform to any of the requirements in the Standard Specifications. In addition, individual sections of manhole risers and tops may be rejected because of any of the following conditions:

- Fracture or cracks passing through the wall, except for a single crack that does not exceed the depth of the tongue and groove section joint.
- Defects that indicate imperfect proportioning, mixing, and molding.
- Surface defects indicating honey-combed or open texture.
- Damaged ends, where such damage would prevent from making a satisfactory joint.
- Manhole steps out of line, or not properly spaced.
- Noticeable infiltration into manhole.
- Variation in diameter of the manhole section of more than 1% from the nominal diameter.
- Any continuous crack having a surface width of 0.01 inch or more and extending for a length of 12 inches or more regardless of position in the section wall.

D Measurement

The department will measure Sanitary Interceptor Manholes 72-Inch, Doghouse Manhole 09-106A, and the Junction Chamber 09-108A as each individual items acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.307	Sanitary Interceptor Manhole 72-Inch	EACH
SPV.0060.308	Doghouse Manhole 09-106A	EACH
SPV.0060.309	Junction Chamber 09-108A	EACH

Payment is full compensation for providing all labor and materials for installing a complete working structure, for all excavating, except rock excavation; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for sealing joints and making connections to new or existing pipe or fixtures; for backfilling and compacting; for providing granular backfill material, including bedding material; for removing sheeting and shoring; for cleaning out pipes and structures; and restoring the worksite.

94. Dewatering – MMSD Structure 09-108A, Item SPV.0060.310; Dewatering – MMSD Interceptor, Item SPV.0060.311.

A Description

The work under this section shall cover furnishing all materials and labor to keep all excavations free of water during the preparation of the subgrade, to keep all concrete and masonry work free of water through the time period specified herein, and to keep the excavation free of water during backfilling in accordance with the Wisconsin Administrative Code and Department of Natural Resources Environmental

Protection Regulations, Current Edition. This work is specific to the MMSD portion of the work included in Project ID 5845-16-87.

B Materials

B.1 Pit/Trench Dewatering

Follow Section 31 23 19 of the standard specifications. Furnish dewatering sumps, wells, discharge piping, and pumping equipment as necessary to adequately dewater the work. Pit/trench dewatering will be necessary for the installation of proposed utilities. Apply for a pit/trench water general permit as needed for construction operations at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html> The Discharge in accordance with the provisions of the General Permit to Discharge Under the Wisconsin Pollutant Discharge Elimination System.

C Construction

The discharge shall not exceed a daily maximum effluent limitation for total suspended solids of 40 mg/L. In most situations, discharge below 20 mg/L appears clear, while levels over 40 mg/L appear cloudy. Typically, levels over 500 mg/L appear completely opaque. If compliance is questioned, the Engineer reserves the right to sample and test discharge water at its discretion. Cloudy or opaque discharge will not be tolerated. Daily maximum effluent limitation means the limitation placed on each effluent characteristic which is to be compared with each single daily analysis. Compliance is achieved when the result of each analysis is equal to or less than the maximum daily effluent limitation.

Obtain a High Capacity Well Permit from the Wisconsin Department of Natural Resources for all wells installed or operated for pumping groundwater to lower the groundwater table, for which the single or aggregate well capacity may be 70 gallons per minute (gpm) or greater. Submit the High Capacity Dewatering Well Application (Form 3300-258) to the Wisconsin Department of Natural Resources, Private Water Supply Section, P.O. Box 7921, Madison, WI 53707, along with any necessary permit fees, and obtain said permit prior to the construction or operation of said high capacity well(s). Permit fees include, but are not limited to, high capacity well permits and Great Lakes Basin discharge fees. The contractor will be responsible for all equipment, labor, materials and supplies required to comply with the requirements of the High Capacity Dewatering Well Permit, if necessary, at no additional cost to the MMSD.

The contractor will be responsible for all requirements of the General Discharge Permit Dewatering Operations, including monitoring, metering, sampling, testing, and reporting, and shall also be responsible for compliance with all discharge limits contained in the General Discharge Permit.

The contractor will be responsible for all equipment, labor, materials and supplies required to comply with the requirements of the General Discharge Permit for Dewatering Operations, at no additional cost to the MMSD.

Review the recommendations of the Geotechnical Reports included in Appendix A for items to consider for dewatering of the site.

Dewatering Discharge. Water pumped as a result of dewatering or pumped from a utility trench shall not be pumped directly to a storm sewer system, wetland, or surface water. Use a Best Management Practice as described in DNR Technical Standard 1061 to remove sediments prior to offsite discharge. The Department of Natural Resources must be consulted for concurrence prior to discharging to waters of the state.

Provide sedimentation settling ponds as necessary for dewatering and included incidental to the dewatering bid item. Pond areas shall be restored upon completion and located within the construction limits unless approved otherwise by the Engineer and Property Owner.

In areas where continuous operation of dewatering pumps is necessary, avoid noise disturbance to nearby residences to the greatest extent possible by using electric driven pumps, insulated pumps, intake and exhaust silencers or housing to minimize noise.

contractor is responsible for dewatering means as necessary during winter months. This includes using heaters or additional pumps to prevent freezing as necessary.

D Measurement

The department will measure Dewatering – MMSD Structure 09-108A and Dewatering – MMSD Interceptor as each individual dewatering process acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.310	Dewatering - MMSD Structure 09-108A	EACH
SPV.0060.311	Dewatering – MMSD Interceptor	EACH

All costs associated with permits, material, labor, time and installation/removal of equipment required to lower and control ground water table levels and hydrostatic pressures to permit excavation, backfill, and construction in the dry conditions. Payment for dewatering also includes control of surface water discharge and shall be considered as part of the work for dewatering.

95. **Bypass Pumping– MMSD Structure 09-108A, Item SPV.0060.312; Bypass Pumping – MMSD Structure 09-106A, Item SPV.0060.313.**

A Description

The work under this section includes providing all materials, labor, equipment, power, and maintenance necessary to perform bypass pumping while the Work is being completed. It is anticipated that most of the project will be completed with bypass pumping. Required minimum bypassing capacity of the different sewers are included in the contract documents. The flow in the sewer varies depending upon time of day, and weather conditions. The anticipated peak flow represents 4 times the estimated daily flow. Coordinate with MMSD for specific timing of the bypass pumping.

Costs associated with these items are strictly related to the construction for MMSD structures 09-108A and 09-106A. The Town of Dunn and Kegonsa Sanitary District bypass items during construction are not included in this item.

B Materials

Review the necessary bypassing for the entire project to determine the anticipated needs. It is anticipated the bypassing for the Town of Dunn and Kegonsa Sanitary District will be completed prior to or at the same time as the bypass for the Village of McFarland for the construction of MH09-108A and temporary forcemain connections will not be necessary. If temporary forcemain or interceptor connections or pumping into trucks are necessary based on the contractor's means and methods, those costs should all be included within the appropriate bypass cost included.

B.1 Submittals

It's the responsibility of the contractor to familiarize themselves with the sanitary sewer facilities and develop an adequate bypassing plan. Provide for the continuous flow of sewerage at all times. Submit to MMSD detailed plans and descriptions outlining all provisions and precautions to be taken by contractor regarding the handling of existing sewage flows a minimum of 1 month in advance of work. This plan must be specific and complete, including such items as schedules, locations, elevations, capacities of equipment, materials, and all other incidental items necessary and/or required to provide proper protection of the facilities, including protection of the access and bypass pumping locations from damage because of the discharge flows and compliance with the requirements specified in these Contract Documents. No work shall begin until all provisions and requirements have been reviewed by MMSD. Selection of pumping equipment, pipe size, pipe support, and appurtenances shall be the responsibility of the contractor and subject to approval by the Engineer.

The Bypass Pumping plan shall include but not be limited to details of the following:

- Staging areas for pumps.
- Sewer plugging method and types of plugs.
- Number, size, material, location, and method of installation of suction piping.
- Number, size, material, method of installation, and location of installation of discharge piping.
- Bypass pump sizes, capacity, number of each size to be on-site, and power requirements.
- Standby power generator size and location.
- Downstream discharge plan.
- Method of protecting discharge manholes or structures from erosion and damage.
- Method of noise control for each pump and/or generator.
- Any temporary pipe supports and anchoring required.
- Design plans for access to bypass pumping locations.
- Schedule for installation and maintenance of bypass pumping lines.
- Plan indicating location of bypass pumping lines.

- Length of time required for bypassing.
- Any other information that may be required to convey a complete bypass pumping plan.

C Construction

Where required by sewage flows or inability to prevent debris from falling into the flow stream, contractor will bypass the sewage around the sewer sections or manholes as required to complete the Work. The contractor must provide uninterrupted sanitary sewer service during construction of the relayed sanitary sewer and monitoring manhole.

Precautions shall be taken when bypass pumping is required to prevent the flooding of nearby property.

Under no circumstances will the diversion or dumping of raw sewage be allowed onto the streets, adjacent lawns, storm sewers or surrounding areas. 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.

The bypass shall be made by plugging an existing upstream manhole and pumping the sewage into a downstream manhole or adjacent sanitary sewer system. Bypass pumping shall mean the use of pumps, tanks, hoses, and other necessary equipment to cause uninterrupted flow of sewage around the section or reach in which the Work is being accomplished.

All discharge pipe shall be hydrostatically tested prior to being placed into service.

Redundant pumps are required for all bypass pumping set ups.

Pumps shall be continuous self-priming and capable of running dry unattended.

Staff gauge or survey rod with gradations at every 0.1 feet (minimum) shall be affixed to the wall of the suction manhole so that the level of water above the invert can be read. Readings on the survey rod should be recorded every hour during the bypassing.

At each suction location, provide a float operated high water alarm at an elevation approved by the Engineer. In no case shall the high water elevation be set higher than 1 foot above the top of the pipe at the suction location. High water float shall trip 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. Any issues or failures with the bypass pumping system must be fixed within one hour.

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.

All hoses and pumps shall be sized by contractor to be of sufficient capacity to handle the existing sewage flow, plus additional flow that may occur during wet weather periods and during periods of high runoff. All equipment used in bypass pumping shall be operated and maintained in proper running condition at all times.

All hose connections shall be watertight and no leakage shall be allowed to the surface. Pumping system hoses and appurtenances shall be tested prior to use in the sewer system to provide watertightness.

At the end of each working day, the reach or section being bypassed shall be placed in service and the bypass plug removed to the extent possible. Items necessary for any temporary connection are incidental to this bid item.

The pumps shall be specifically designed for sewage, capable of passing 3-inch solids.

Satisfactorily demonstrate to MMSD that the bypass system works for at least the diurnal flow pattern before beginning any Work.

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.

All bypass pumping operations must be attended in-person by personnel for the first 48 hours of any new pumping setup to prevent flooding in case of pump failure. All personnel for setup, operation, and supervision of the bypass pumping equipment shall be provided as necessary.

D Measurement

The department will measure Bypass Pumping – MMSD Structure 09-108A and Bypass Pumping – MMSD Structure 09-106A as each individual process acceptably completed as necessary for construction.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.312	Bypass Pumping – MMSD Structure 09-108A	EACH
SPV.0060.313	Bypass Pumping – MMSD Structure 09-106A	EACH

Payment. All costs associated with permits, material, labor, time and installation/removal of equipment required to lower and control ground water table levels and hydrostatic pressures to permit excavation, backfill, and construction in the dry conditions.

96. Remove and Abandon Manhole 09-107, Item SPV.0060.314.

A Description

This special provision describes the partial removal and abandonment of the existing MMSD Sanitary Manhole 09-107. The manhole shall be removed to below grade and filled. Work includes all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

B Materials

Casing fill shall consist of cementitious materials such as EF as manufactured by Elastizell, Inc. or approved equal.

Cementitious material shall comply with ASTM C150, C595, or C1157. Elastizell, pozzolaus, and other cementitious materials must be used. Maximum 28 day strength shall be minimum of 40 psi and a maximum of 100 psi.

C Construction

Partially remove and abandon sanitary MH09-107. The manhole shall be removed to a minimum of 3 feet below the final grade. The contractor is responsible for removing and disposing of the top slab, barrel sections as needed, adjustment rings, frame and casting. The existing pipes shall be plugged prior to backfilling the structure. The remaining structure shall be backfilled with concrete above the crown of both the inflowing and outflowing sewers to a maximum of 4 feet. The remainder of the structure shall be backfilled with lightweight cellular concrete such as elastizell or approved equivalent. The removal area shall be backfilled as necessary to restore the site according to the plans.

D Measurement

The department will measure Remove and Abandon Manhole 09-107 as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.314	Remove and Abandon Manhole 09-107	EACH

Payment is full compensation for providing required materials, excavation, removal, disposal, plugging, backfilling and abandonment of MH09-107.

97. Remove Structure 09-108, Item SPV.0060.315.

A Description

This special provision describes the removal of the existing MMSD Sanitary Structure 09-108. The manhole shall be removed in its entirety to allow for the construction of retaining walls. Removal should be coordinated with the adjacent construction work. Work includes all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

B Materials (Vacant)

C Construction

Remove the existing Sanitary Structure 09-108. The structure shall be removed in its entirety including all internal features. The contractor is responsible for removing and disposing of the top slab, structure

sections, base, adjustment rings, frame and castings, internal walls, metal gates and valves within the structure. Pipes within the structure shall be removed and disposed of by the contractor. All pipes shall be cut at the exterior of the structure and plugged. The removal area shall be backfilled as necessary to restore the site according to the plans. Removal will include the removal of the existing sanitary pipes within 4 feet in all directions of the manhole.

D Measurement

The department will measure Remove Structure 09-108 as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.315	Remove Structure 09-108	EACH

Payment is full compensation for providing required materials, excavation, removal, disposal, plugging, and backfilling of MH09-108.

98. Connect to Existing Interceptor Sewer - McFarland, Item SPV.0060.316; Connect to Existing Interceptor and Benching MH09-106A, Item SPV.0060.317.

A Description

This special provision describes the connection to existing interceptor sewer. Connections shall be made watertight and as noted on the contract documents. Connections should be coordinated with the respective Owner of the utility. Work includes all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

B Materials (Vacant)

C Construction

Make connections as required to existing interceptor sewers. Connections shall be made as noted in the contract documents and as required by the Owner of the connecting interceptor. Connections shall be completed as watertight and the contractor will contact the Owner prior to the connection to provide oversight on the connection. Anticipated connections are noted on the plans and should be approved in the shop drawing submittals.

MH09-106A will consist of the removal of the existing pipe, plugging of the existing manhole, and benching of the manhole to provide the required flowline. Anticipated items are shown in the contract documents. All incidental items are included in order to make the connection and provide a flowline as shown in the contract documents and appropriate benching of the manhole.

D Measurement

The department will measure Connect to Existing Interceptor as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.316	Connect to Existing Interceptor Sewer – McFarland	EACH
SPV.0060.317	Connect to Existing Interceptor and Benching MH09-106A	EACH

Payment is full compensation for providing required materials, excavation, and labor for the required connections as shown in the contract documents.

99. Replace Adjustment Rings, Item SPV.0060.318.

A Description

This special provision describes the removal and replacement of the adjustment rings on the existing MMSD sanitary manholes where the castings will be replaced as noted on the contract documents. Work

includes all incidental items necessary to remove, discard, and replace the adjustment rings to the final grades as shown on the plans and included in the proposal and contract.

B Materials

B.1 Polypropylene Adjustment Rings

Adjustment rings shall be manufactured from Expanded Polypropylene (EPP), Cretex Pro-Ring or approved equal, compliant with ASTM D4819, and tested according to ASTM D3575. The rings shall be manufactured using a high-compression molding process to produce a finished density of 120 g/l (7.5 pcf)

They shall be capable of supporting the minimum requirements of AASHTO M-306, H-25, and HS-25, be UV stable and resistant to chemicals and corrosion commonly associated with sanitary environments. Rings shall be available in heights (thicknesses) which will allow final adjustment of the frame and cover or grate to within ¼" (one-quarter inch) to ½" (one-half inch) of the specified final elevation. "Finish" Rings shall be provided with grooves on the lower surface and a flat upper surface. "Finish" rings may also have a keyway on the upper surface of the inner diameter to facilitate the installation of an "Angle" ring, where an "Angle" ring is required. "Angle" rings may either have an upper and lower keyway (tongue and groove) for vertical alignment and/or an adhesive trench on the underside.

B.2 Sealant

Adhesive or sealant used for watertight installation of the manhole grade adjustment rings shall meet manufacturer specifications and the requirements of ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A and O Federal Specification TT-S-00230-C Type II, Class A. Adhesive sealant shall be used between the precast concrete and adjustment rings as well as between the adjustment rings and manhole casting. Adhesive sealant shall bond to concrete.

C Construction

Remove the existing adjusting rings on the existing MMSD manholes 09-101 through 09-106 and provide and adjust the casting prior to roadway paving to be approximately ¼-inch below the finished pavement grade. Manholes 09-106 was previously coated with Raven 405 Epoxy on the interior of the manhole to the bottom of the lid. Prior to casting removal and adjustment, the coating will have to be cut in a straight line below the casting or top deck. Upon completion of the adjustment, coat the interior of the manhole with an approved product and paid as a separate item.

D Measurement

The department will measure Replace Adjustment Rings per each manhole that the existing rings have been removed and new adjustment rings have been correctly installed to adjust the casting to the appropriate new grade. Adjustment rings on new manholes are inclusive to the new manholes.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.318	Replace Adjustment Rings	EACH

Payment is full compensation for removing, discarding, and providing the required materials and labor to remove and replace the existing adjustment rings to the existing MMSD manholes.

100. Adjust Manhole Rim, Item SPV.0060.319.

A Description

This special provision describes the final adjustment of the manhole rims prior to paving of the project. Work includes all incidental items necessary to adjust the castings to the appropriate grade and provide a watertight construction.

B Materials

B.1 Sealant

Adhesive or sealant used for watertight installation of the manhole grade adjustment rings shall meet manufacturer specifications and the requirements of ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A and O Federal Specification TT-S-00230-C Type II, Class A. Adhesive sealant shall be

used between the precast concrete and adjustment rings as well as between the adjustment rings and manhole casting. Adhesive sealant shall bond to concrete.

C Construction

Final adjust the manhole castings to verify the casting is set appropriately and sealed to the adjustment rings. The manhole rim is to be set up to 1/4-inch below the proposed final pavement grade. If adjustment rings need to be replaced or adjusted, the work for this adjustment would be included in this bid item for the final casting adjustment.

D Measurement

The department will measure Adjust Manhole Rim per each manhole that is adjusted to the final grade prior to the paving operation and set to the correct grade. The manholes will be inspected to verify the casting is set correctly on the adjustment rings and precast manholes prior to approval.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.319	Adjust Manhole Rim	EACH

Payment is full compensation for final adjusting the manhole rims to the final paving grades. Payment will be for all items necessary to complete the final adjustments of the castings.

101. MMSD Structure Staking, Item SPV.0060.320; MMSD Interceptor Staking, Item SPV.0060.321.

A Description

This special provision describes the work required for the construction staking of the MMSD sanitary interceptor, structures, and ancillary features included within the contract documents.

B Materials (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain a minimum of two construction stakes to establish location and grade of interceptor sewer and structures according to the plans and details. Provide stakes that establish the horizontal and grade elevation of interceptor sewer at intervals of 25 feet for a minimum of 100 feet from each structure and at intervals of 50 feet thereafter. Provide stakes and offsets for the structures along the interceptor. Determine offsets in conjunction with contractor requirements. Verify the elevations of existing facilities which are to remain and be connected to prior to construction. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

D Measurement

The department will measure MMSD Structure Staking and MMSD Interceptor Staking per each completed staking for the utility. MMSD Structure Staking shall include the staking of MH09-108A and the associated Geoweb access to the structure. MMSD Interceptor Staking shall include the staking of the interceptor and structures between MH09-108A and MH09-106A and including MH09-106A.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.320	MMSD Structure Staking	EACH
SPV.0060.321	MMSD Interceptor Staking	EACH

Payment is full compensation for locating and setting all construction stakes and for relocating and resetting damaged or missing construction stakes for the MMSD interceptor associated work.

102. Pipe Pile Supports, Item SPV.0060.401.

A Description

This special provision describes furnishing, transporting, and placing the sanitary sewer pile supports.

B Materials

B.1 Reinforcing

Furnish bar steel reinforcement as specified in 505.

B.2 Concrete

B.2.1 Cast-in-Place

Furnish grade A concrete conforming to section 501 and have a minimum compression strength of 3500 psi at 28 days. Cure for a minimum of 3 days prior to setting the sanitary sewer pipe.

B.2.2 Precast

Use concrete in cap portion that meets the following requirements: grade A concrete; minimum compressive strength of 4000 psi at 28 days.

B.3 Piling

Provide steel pipe sections in accordance with ASTM A252 grade 3 for both sizes.

B.4 Structural Steel

B.4.1 Plate

Provide structural carbon steel conforming to ASTM A709 Grade 36.

Shop bend the pipe strap for the outer radius of the sanitary sewer pipe and as shown in the plan details.

B.4.2 Welded Shear Studs

Provide shear connector studs conforming to ASTM A108, cold-finished bars, grades 1015, 1018, or 1020.

Tensile properties to be as specified in 506.2.7(2).

B.4 Adhesive Anchors

Furnish galvanized anchor bolts and hardware. Galvanize per ASTM F2329 or ASTM B695 Grade 55; ensure all parts use the same process.

Furnish adhesive anchors from the WisDOT Approved Products List.

C Construction

C.1 Reinforcing

Place reinforcing bars for a minimum of 2" clear on all sides. Bottom clearance to be increased to 3" for cast-in-place concrete.

C.2 Concrete

Place and consolidate concrete as specified in 502.

Use ordinary surface finish.

Cure concrete in accordance with 502.3.8.

C.3 Structural Steel

Weld in accordance with the current edition of AWS D1.1, Structural Welding Code – Steel.

C.4 Adhesive Anchors

Install adhesive anchors in accordance with the Manufacturer's recommendations.

D Measurement

The department will measure Pipe Pile Supports by the Each acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.401	Pipe Pile Supports	EA

Payment is full compensation for providing all materials, driving piling, placing reinforcement, providing or placing concrete cap, setting elevations, welding, and field adjustments to meet final sanitary sewer position.

**103. Sanitary Manholes 4-Ft Diameter, Item SPV.0060.402;
Sanitary Manholes 4-Ft Diameter Pile Supported, Item SPV.0060.403.**

A Description

This special provision describes providing and installing sanitary manholes and supports as shown on the contract documents.

B Materials

B.1 Submittals

Submit shop drawings of all sanitary manhole structures to Dunn Sanitary District #3 for review a minimum of fourteen days prior to onsite delivery and installation. This shall include: materials, plans, elevations, sections, details, frames and covers, pipe penetrations, and joint sealants.

B.2 Precast Manholes

Conform with ASTM C478 for pre-cast components.

Joints: Conform with ASTM C443.

Gaskets: Minimum 3/4-inch thick butyl rubber conforming with AASHTO M198, ASTM C990, ASTM C765, ASTM C972-00, and ASTM C972.

B.3 Manhole Steps

Shall be a 1/2 inch diameter grade 60 steel reinforcement rod encapsulated in copolymer polypropylene.

Steps shall be as manufactured by M.A. Industries, Inc., or equal. Steps shall be installed on the vertical side of the cone section of the manhole.

B.4 Manhole Frames and Covers

Frames shall conform to ASTM A48, Class 35 and be AASHTO H-20 rated. Frames shall have non-rocking seat.

Lids shall be solid, non-rocking, with two (2) concealed lift holes, and self-seal gasket.

Use Neenah R-1550-A with a solid Type B lid or approved equal.

C Construction

C.1 Excavation

Excavate to depth required in accordance with standard specification 206.

C.2 Dewatering

If dewatering is necessary, obtain all necessary permits from Wisconsin Department of Natural Resources prior to the start of dewatering activities. Perform dewatering practices in accordance with Wisconsin Department of Natural Resources Technical Standard 1061, *Dewatering Practices for Sediment Control* and any applicable permits. Maintain dewatering operation until all construction activities, including backfilling activities, are complete.

C.3 Manholes

Place manholes on a minimum of 6 inches of crushed rock conforming to ASTM C12-81 or D2321-80, compacted to 95% Standard Proctor Density. Establish flowline and rim elevations from grade stake provided. Furnish manholes in 4-foot inside diameter (standard diameter) when dimensions are not shown. Manholes shall be pre-cast construction, unless shown otherwise. Provide manhole riser sections in a combination of lengths which will minimize the number of joints. Seal manhole joints with minimum thickness 3/4-inch EZ Stick preformed tape or approved equal. Set casting frames and adjusting rings on a full bed of mortar. Pitch castings to match street crowns. Pipe shall enter manholes through a flexible, watertight gasket or connector manufactured in accordance with ASTM C443 or C923. Whenever

practical, pipe opening shall be factory made using A-Lok, Press-Seal, or equal. The following shall be filled with mortar and finished smooth:

1. Interior joints and lift holes
2. Annular space around pipes: Interior bottom half only.

Furnish pre-cast manholes with shop manufactured inverts. Shape and slope flow-line of invert to match largest connecting pipe when not specified on plans. Slope invert bench upward to manhole wall.

C.4 Backfill

Backfill in accordance with standard specification 206.3.13.

D Measurement

The department will measure Sanitary Manholes 4-FT Diameter by the each acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.402	Sanitary Manholes 4-FT Diameter	EACH
SPV.0060.403	Sanitary Manholes 4-FT Diameter Pile Supported	EACH

Payment is full compensation including excavation, shoring, and dewatering; foundation granular material, geotextile and compaction; all precast components, steps, frame and cover; gasketed pipe openings and joint seals; adjusting rings and plastic cement sealer; the drop encased in concrete for drop manholes; backfill; and for furnishing all labor, tools, equipment, materials, and incidentals necessary to complete the work required under this bid item.

Payment for Sanitary Manholes 4-FT Diameter Pile Supported also includes furnishing and driving piling, bar steel reinforcement, and concrete foundation.

104. Manhole Frame, Item SPV.0060.404; Manhole Cover, Item SPV.0060.405.

A Description

This special provision describes removing the existing manhole cover, casting, and appurtenances; and furnishing and installing new manhole covers as shown on the drawings.

B Materials

B.1 Submittals

Submit shop drawings of all materials to Dunn Sanitary District #3 for review a minimum of fourteen days prior to onsite delivery and installation.

B.2 Manhole Frames and Covers

Frames shall conform to ASTM A48, Class 35 and be AASHTO H-20 rated. Frames shall have non-rocking seat.

Lids shall be solid, non-rocking, with two (2) concealed lift holes, and self-seal gasket.

Use Neenah R-1550-A with a solid Type B lid or approved equal.

C Construction

Remove portion of manhole structure and install adjusting rings, as necessary, to bring top of manhole frame to the finished elevation.

D Measurement

The department will measure Manhole Frame and Manhole Cover at MH-1 and MH-2 as each individual sanitary sewer manhole acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.404	Manhole Frame	EA
SPV.0060.405	Manhole Cover	EA

Payment is full compensation for removing portions of existing manhole structure; installing adjusting rings; providing and installing new manhole frame and cover at existing manholes MH-1 and MH-2. Payment for Manhole Cover is for providing and installing as shown on the contract documents.

105. Connection to Manhole MH 09-108A MMSD, Item SPV.0060.406.

A Description

This special provision describes connecting new ductile iron sanitary sewer main pipe to the relocated Madison Metropolitan Sewerage District (MMSD) structure MH09-108A as shown on the contract documents and as hereinafter provided.

B Materials

B.1 Submittals

Submit product information for all proposed materials to Dunn Sanitary District #3 for review a minimum of fourteen days prior to onsite delivery and installation.

B.2 Pipe Bedding

Furnish a 3/4" crushed stone conforming to ASTM C12-09 Class B. No native soils may be used as bedding materials.

The loss due to sulfate soundness testing shall not exceed 10%. The loss due to abrasion testing shall not exceed 40%

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1-inch (25.4 mm)	100
3/4-inch (19.05 mm)	90 – 100
3/8-inch (9.5 mm)	20 - 55
No. 4 (4.75 mm)	0 - 10

B.3 Pipe Bedding Foundation

If in-situ subgrade soils at the bottom of trenches are unstable, as determined by Engineer, over excavation will be required and suitable foundation material shall be provided as indicated in the contract documents. Foundation material shall be 3-inch crushed clear stone with minimal fines or approved equal.

B.4 Non-Woven Geotextile Fabric

Non-woven geotextile fabric shall be wrapped around pipe bedding and pipe bedding foundation materials to prevent migration of fines. Preapproved products include Mirafi 160N or approved equal.

B.5 Backfill Material

Debris, frozen material, large clods or stones, organic matter, or other unstable materials may not be used for backfill within 2 feet of the top of the pipe.

B.6 Pipe and Pipe Fittings

Provide pipe and fittings according to *Ductile Iron Sanitary Sewer 18-Inch* of the special provisions.

B.7 Pipe Wall Penetrations

Provide a flexible, watertight rubber gasket for pipe opening at manhole wall. Use Press Seal PSX 24L Direct Drive or approved equal. Connector material shall comply with ASTM C923.

C Construction

C.1 Excavation

Excavate to depth required in accordance with standard specifications 206 and 608.3.1.

C.2 Dewatering

If dewatering is necessary, obtain all necessary permits from Wisconsin Department of Natural Resources prior to the start of dewatering activities. Perform dewatering practices in accordance with Wisconsin Department of Natural Resources Technical Standard 1061, *Dewatering Practices for Sediment Control* and any applicable permits. Maintain dewatering operation until all construction activities, including backfilling activities, are complete.

C.3 Sewer Utility Connection

Connect the new 18-inch nominal diameter sanitary sewer main to the MMSD structure by inserting pipe into field cored pipe opening as indicated on the contract documents. Depth and location of the MMSD structure connection shall be field verified by contractor. Field verification shall take place prior to commencing work at the connection location and with sufficient time to notify the Dunn Sanitary District #3 of and address any discrepancies from connection locations or elevations shown on the contract documents.

Pipe penetration to MMSD MH09-108A shall be made using flexible, watertight gasket at the cored pipe opening location indicated in the contract documents. The gasket shall be installed prior to installing the pipe. Cored hole diameter shall be compatible with the approved flexible, watertight gasket product. Install per manufacturer's specifications.

C.4 Backfilling

Backfill in accordance with standard specification 206.3.13 and 608.3.5.

D Measurement

The department will measure Connection to Manhole MH 09-108A MMSD by each connection acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.406	Connection to Manhole MH 09-108A MMSD	EACH

Payment is full compensation for providing all materials; for excavation, shoring, dewatering, backfilling, compaction, disposing of excess material, field verifications, and incidentals necessary to complete the work required under this bid item.

106. Connect to Existing Sanitary Main, Item SPV.0060.407.

A Description

This special provision describes connecting existing sanitary sewer main to new sewer main where indicated on the contract documents. The connection shall include cutting of existing pipe and installing new pipe with an acceptable pipe coupling to achieve a secure and watertight connection.

B Materials

B.1 Submittals

Submit product information for all proposed materials to Dunn Sanitary District #3 for review a minimum of fourteen days prior to onsite delivery and installation.

B.2 Pipe Bedding

Furnish a 3/4" crushed stone conforming to ASTM C12-09 Class B. No native soils may be used as bedding materials.

The loss due to sulfate soundness testing shall not exceed 10%. The loss due to abrasion testing shall not exceed 40%

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1-inch (25.4 mm)	100
3/4-inch (19.05 mm)	90 – 100

3/8-inch (9.5 mm) 20 - 55

No. 4 (4.75 mm) 0 - 10

B.3 Pipe Bedding Foundation

If in-situ subgrade soils at the bottom of trenches are unstable, as determined by Engineer, over excavation will be required and suitable foundation material shall be provided as indicated in the contract documents. Foundation material shall be 3-inch crushed clear stone with minimal fines or approved equal.

B.4 Non-Woven Geotextile Fabric

Non-woven geotextile fabric shall be wrapped around pipe bedding and pipe bedding foundation materials to prevent migration of fines. Preapproved products include Mirafi 160N or approved equal.

B.5 Backfill Material

Debris, frozen material, large clods or stones, organic matter, or other unstable materials may not be used for backfill within 2 feet of the top of the pipe.

B.6 Pipe and Pipe Fittings

Provide pipe and fittings according to *Ductile Iron Sanitary Sewer 18-Inch* of the special provisions.

B.7 Pipe Couplings

Pipe couplings shall be a bolted sleeve type coupling for joining plain end pipe of the same diameters. The coupling shall be specific to the type of pipes being connected and shall be provided with sufficient sleeve length to provide secure and watertight connection.

Pipe couplings shall comply with AWWA C219. Smith-Blair 411 or approved equal.

C Construction

C.1 Sewage Bypassing

Prior to constructing a new sewer main connection to existing Dunn Sanitary District #3, bypass sewage flows upstream of the proposed connection point by inserting temporary plugs in upstream manholes or sewers and pumping or hauling sewerage to downstream manholes or locations as approved by the Madison Metropolitan Sewerage District (MMSD).

C.2 Trenching and Excavation

Excavate to depth of existing sewer per the requirements of standard spec 608.3.1.

C.4 Dewatering

If dewatering is necessary, obtain all necessary permits from Wisconsin Department of Natural Resources prior to the start of dewatering activities. Perform dewatering practices in accordance with Wisconsin Department of Natural Resources Technical Standard 1061, *Dewatering Practices for Sediment Control* and any applicable permits. Maintain dewatering operation until all construction activities, including backfilling activities, are complete.

C.5 Sewer Utility Connection

Cleanly cut existing sanitary sewer main pipe and cut a section of new pipe of proper length and fasten the pipe coupling in place per manufacturer's specifications. Connection shall be watertight.

C.6 Backfilling

Backfill in accordance with standard specification 608.3.5.

D Measurement

The department will measure Connect to Existing Sanitary Main as each individual connection to existing sanitary sewer main acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.407	Connect to Existing Force Main	EACH

Payment is full compensation for providing all materials; for excavation, shoring, dewatering, backfilling, compaction, disposing of excess material, field verifications, and incidentals necessary to complete the work required under this bid item.

107. Construction Staking Sanitary Sewer, Item SPV.0060.408.

A Description

Perform work according to the applicable provisions of standard spec 650.

B Materials (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain a minimum of two construction stakes to establish location and grade of sanitary sewer according to the plans and details. Set and maintain construction stakes to establish location and grade of sanitary sewer and manholes. Provide stakes that establish the horizontal and grade elevation at intervals of 25 feet for a minimum of 100 feet from each permanent connection point and at intervals of 50 feet thereafter. Determine offsets in conjunction with contractor requirements. Verify the elevations of existing facilities which are to remain and be connected to. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

Place additional intermittent stakes as necessary to provide staking information at critical areas such as utility, waterway, and structure crossings.

D Measurement

The department will measure Construction Staking Sanitary Sewer as acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.408	Construction Staking Sanitary Sewer	EA

Payment is full compensation for locating and setting all construction stakes; and for relocating and resetting damaged or missing construction stakes.

108. Sanitary Sewer Main Bypass Pumping for Dunn Sanitary District No. 3, Item SPV.0060.409.

A Description

The work covered by this special provision consists of providing all labor, equipment, material, and supplies and performing all operations required to bypass pump sewage around sanitary manholes or sewer main sections in which work is to be performed. Be prepared to bypass pump sewage as part of their operations. Provide all pumps, piping and other equipment necessary to accomplish bypass pumping; perform all construction; obtain all permits; pay all costs; and perform complete restoration of all existing facilities to conditions equal or better than existed prior to construction and to the satisfaction of the Owner.

Bypassing flow may alternatively, or at times, be completed through use of vacuum trucks, where appropriate and as approved by the Dunn Sanitary District #3. A minimum of one onsite duty and one onsite standby vacuum truck shall be provided at all times during bypassing activities, when vacuum trucks are utilized.

B Materials (Vacant)

B.1 Submittals

Submit a written plan describing means and methods for flow control and bypass pumping to the Dunn Sanitary District #3 for review fourteen days prior to construction. This includes a general description of means and methods for flow control and bypass pumping for abandoned sanitary sewer mains and removals, construction of new manholes, and construction of new sanitary sewer mains. Bypassing plan

shall be approved by Dunn Sanitary District #3 and Madison Metropolitan Sewerage District (MMSD) prior to the start of bypassing.

C Construction

C.1 General Conditions

For abandoned sanitary sewer mains and removals, construction of new manholes, and construction of new sanitary sewer mains, prevent the flow of sewage to affected, downstream sanitary manholes and sewer main sections of the work by plugging or blocking the upstream manhole(s), and pumping upstream sewage to an appropriate downstream manhole, not affected by the work.

When pumping and bypass pumping is required, supply all necessary pumps, piping, and other equipment to divert the flow around manhole or sewer main section in which work is to be performed. The bypass system shall be of sufficient capacity to handle existing flow plus additional flow that may occur during rainstorms, runoff events, flooding, or seasonal high-groundwater conditions. The contractor will be responsible for furnishing the necessary labor and supervision to set up and operate the pumping and bypassing system. Pumps and equipment shall be continuously monitored by the contractor during the periods that pumping and bypassing are required. If pumping is required on a 24-hour basis, engine shall be equipped in a manner to keep noise to a minimum.

When flow in a sanitary sewer is plugged, blocked or bypassed, take sufficient precautions to protect public health and to protect the sewer mains from damage that might result from sewer surcharge. Further, take precautions to prevent flooding or damage to public or private property being served by the sanitary sewer system. Contractor will be responsible for any damage resulting from his operations.

When flow in a sewer main is plugged or blocked, monitor the conditions upstream of the plug and shall be prepared to immediately start bypass pumping. Any liquid or solid matter which is bypass pumped from the sewer collection system shall be discharged to another sewer manhole or appropriate vehicle or container only. No such liquid or solid matter shall be allowed to be discharged, stored, or deposited on the ground, swale, road, stormwater drainage system or open environment. Protect all pumps, pipes and other equipment used for bypass pumping from traffic.

Should the liquid or solid matter from the sewage collection system be spilled, discharged, leaked, or otherwise deposited to the open environment because of the contractor's operations, contractor will be responsible for all cleanup and disinfection of the affected area and all costs associated with same. The contractor will also be responsible for notifying the sewer system operating personnel and all applicable regulatory agencies and performing all required cleanup operations at no additional cost to the Dunn Sanitary District #3.

C.2 Site Specific Information

Provide bypass pumping equipment capable of meeting minimum influent flow capacities, considering all sources of wastewater that may enter the project area. The project site is affected by upstream sewage pumping stations from Dunn Sanitary District #3. The estimated minimum peak hour flow from Dunn Sanitary District #3 is approximately 740 gpm. Verify capacity needs and demonstrate to Dunn Sanitary District #3 that bypass pumping system is of sufficient capacity prior to start of work.

Coordinate with other sewer utilities, Kegonsa Sanitary District, if their flows are at any time diverted into the Dunn Sanitary District #3 sewer system as part of bypassing activities. Appropriately consider the cumulative capacity requirements of such flow additions when they occur. Coordinate appropriate bypass pumping discharge location(s) with Madison Metropolitan Sewerage District (MMSD), as they are the recipient of Dunn Sanitary District #3's wastewater.

D Measurement

The department will measure Sanitary Sewer Main Bypass Pumping for Dunn Sanitary District #3 as each individual project, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.409	Sanitary Sewer Main Bypass Pumping for Dunn Sanitary District #3	EACH

Payment is full compensation for all sewage bypassing activities, including all materials, equipment, labor, coordination time, and incidentals.

109. Reconstruct Sanitary Manhole 4-FT Diameter, Item SPV.0060.410.

A Description

This special provision describes reconstructing sanitary manholes and applies to existing manholes that require vertical adjustment to manhole frames and covers exceeding one foot in elevation. Reconstruct sanitary manhole barrel and cone sections to meet required lines and elevations as shown on the contract documents.

B Materials

B.1 Submittals

Submit shop drawings of sanitary manhole barrel and cone section components to Dunn Sanitary District #3 for review a minimum of fourteen days prior to onsite delivery and installation. Submittals shall include materials, plans, elevations, sections, details, and joint sealants.

B.2 Precast Concrete Manhole Components

Conform with ASTM C478 for pre-cast components.

Barrel Sections: Supplied barrel sections shall be compatible with underlying barrel sections and overlying cone section to provide uniform fit, structural stability, and suitable joint space to install water-tight gaskets. Barrel sections shall be supplied in standard heights commonly supplied by the manufacturer.

Cone Sections: Cone sections shall be eccentric type and shall be compatible with underlying barrel sections and overlying manhole adjusting rings, frames and covers to provide uniform fit, structural stability, and suitable joint space to install water-tight gaskets. Cone sections shall be supplied in standard heights commonly supplied by the manufacturer.

Joints: Conform with ASTM C443.

Joint Sealant: Minimum 3/4-inch thick butyl rubber conforming with AASHTO M198, ASTM C990, ASTM C765, ASTM C972-00, and ASTM C972.

External Joint Wrap: Minimum 12-inch wide collar with outer layer of polyethylene meeting the requirements of ASTM C-877, Type II.

B.3 Manhole Steps

Shall be a 1/2 inch diameter grade 60 steel reinforcement rod encapsulated in copolymer polypropylene.

Steps shall be as manufactured by M.A. Industries, Inc., or equal. Steps shall be installed on the vertical side of the cone section of the manhole.

B.5 Reinforcing

Furnish bar steel reinforcement as specified in 505.

C Construction

C.1 Sewage Bypassing

If necessary to complete manhole reconstruction, bypass sewage flows to the manhole prior to construction by inserting temporary plugs in upstream manholes or sewers and pumping or hauling sewerage to downstream manholes or locations as approved by the Madison Metropolitan Sewerage District (MMSD).

C.2 Excavation

Excavate to depth required in accordance with standard specification 206.

C.3 Dewatering

If dewatering is necessary, obtain all necessary permits from Wisconsin Department of Natural Resources prior to the start of dewatering activities. Perform dewatering practices in accordance with Wisconsin Department of Natural Resources Technical Standard 1061, *Dewatering Practices for Sediment Control* and any applicable permits. Maintain dewatering operation until all construction activities, including backfilling activities, are complete.

C.4 Reconstruct Manholes

Establish rim elevations from grade stake provided. Remove existing manhole frame and cover, adjustment rings, manhole cone or flat top section, and any necessary barrel sections. Furnish and install new manhole barrel section(s) and cone section, 4-foot inside diameter (standard diameter) when dimensions are not shown. Manhole barrel and cone sections shall be pre-cast construction, unless otherwise shown. Provide manhole barrel and cone sections in a combination of lengths that will minimize the number of joints. Seal manhole joints with minimum thickness 3/4-inch EZ Stick preformed tape or approved equal. Apply external joint wrap to manhole joints, Cretex Wrap 12-inch wide or approved equal.

C.5 Reinforcing

Place reinforcing bars for a minimum of 2" clear on all sides. Bottom clearance to be increased to 3" for cast-in-place concrete.

C.6 Concrete

Place and consolidate concrete as specified in 502.

C.7 Backfilling

Backfill in accordance with standard specification 206.3.13.

D Measurement

The department will measure Reconstruct Sanitary Manholes 4-FT Diameter as each individual reconstructed sanitary manhole, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.410	Reconstruct Sanitary Manhole 4-FT Diameter	EACH

Payment is full compensation including excavation, shoring, dewatering, backfill, compaction, disposal of excess material, installation of new pre-cast concrete components, manhole steps, joint seals, external joint wrap, and all other work incidental to reconstructing existing sanitary manholes to the proper lines and elevations.

110. Kegonsa Sanitary District Force Main Bypass Pumping and Hauling, Item SPV.0060.501.

A Description

Work Included: Providing all materials, labor, equipment, power, and maintenance necessary to perform bypass pumping while the Work is being completed.

B Materials

B.1 Submittals

Submit to Kegonsa Sanitary District detailed plans and descriptions outlining all provisions and precautions to be taken by the contractor regarding the handling of existing sewage flows. This plan must be specific and complete, including such items as schedules, locations, elevations, capacities of equipment, materials, and all other incidental items necessary and/or required to provide proper protection of the facilities, including protection of the access and bypass pumping locations from damage. No rehabilitation or construction shall begin until all provisions and requirements have been reviewed by Kegonsa Sanitary District.

C Construction

C.1 Sewer Bypass Pumping and Hauling

For temporary and permanent force main connections, the bypass shall be made by pumping from the Kegonsa Sanitary District Main Pump Station wet well at 2240 US 51, Stoughton, Wisconsin, hauling, and dumping at MMSD Pump Station 4612 Larson Beach Road, McFarland, Wisconsin. Bypass pumping shall mean the use of pumps, tanks, hoses, and other necessary equipment to cause uninterrupted flow of sewage around the section or reach in which the Work is being accomplished. The average flow to the Main Pump Station = 175 gpm, the Main Pump Station single pump capacity = 550 gpm, and the Main

Pump Station firm capacity = 650 gpm. Contact Brian Shotliff at (608) 843-6026 a minimum of 48 hours prior to bypassing operations to coordinate the back-draining of the existing force main to the existing wet well. Account for pumping the drained existing force main and the flow to the existing Main Pump Station.

All bypass pumping and hauling operations must be attended by personnel to prevent flooding in case of pump failure. Under no conditions shall a bypass pumping operation be left unattended. All personnel for setup, operation, and supervision of the bypass pumping equipment shall be provided as necessary.

All hoses and pumps shall be sized by the contractor to be of sufficient capacity to handle the existing sewage flow, plus additional flow that may occur during wet weather periods and during periods of high runoff. All equipment used in bypass pumping shall be operated and maintained in proper running condition at all times.

All hose connections shall be watertight and no leakage shall be allowed to the surface. Pumping system hoses and appurtenances shall be tested prior to use in the sewer system to provide watertightness.

Provide a pump capable of conveying all flow that passes through the sewers within the bypassed area. A backup pump capable of conveying all flow that passes through the existing sewer pipes within the bypass area shall be present on site during bypass pumping operations. A backup generator capable of powering the bypass pump, if not integral to the backup pump, shall be provided on site during bypass pumping operations.

No bypass pumping shall occur during non-working hours or on Saturday or Sunday without prior approval by Kegonsa Sanitary District. Kegonsa Sanitary District shall have the authority to prevent bypass pumping operations from occurring on a specific day or days if Kegonsa Sanitary District decides that bypass pumping operations could occur during periods of forecasted rain events. Adjust bypass pumping schedule based on comments and restrictions from Kegonsa Sanitary District.

The pumps shall be specifically designed for sewage, capable of passing 3-inch solids.

Satisfactorily demonstrate to Kegonsa Sanitary District that the bypass system works for at least the diurnal flow pattern before beginning any Work.

D Measurement

The department will measure Kegonsa Sanitary District Force Main Bypass Pumping and Hauling as a single unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.501	Kegonsa Sanitary District Force Main Bypass Pumping and Hauling	EACH

Payment is for full compensation for providing all materials, equipment necessary for sewer bypass pumping and hauling.

111. Connect to Existing Force Main, Item SPV.0060.502.

A Description

This special provision describes connecting new force main to existing force main as shown on the drawings in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin and as hereinafter provided.

B Materials

Provide excavation, bedding and backfill according to Sanitary Sewer Force Main, 10-inch (C900 PVC) of the special provisions.

Provide fittings and joint restraint according to Sanitary Sewer Force Main, 10-inch (C900 PVC) of the special provisions.

C Construction

All connections shall be made according to the drawings.

D Measurement

The department will measure Connect to Existing Force Main as each individual connect to existing force main, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.502	Connect to Existing Force Main	EACH

Payment is full compensation for providing all materials, for all excavation, backfilling, compaction, disposal of excess materials; and for making all necessary connections.

112. Connect to MMSD Structure, Item SPV.0060.503.

A Description

This special provision describes connecting new HDPE force main to the MMSD structure as shown on the drawings in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin and as hereinafter provided.

B Materials

Provide excavation, bedding and backfill according to Sanitary Sewer Force Main, 10-inch (C900 PVC) of the special provisions.

Provide pipe and fittings according to Sanitary Sewer Force Main, 10-inch (DR 11 HDPE) of the special provisions.

C Construction

Connect the new force main to the MMSD structure by field core drilling. Depth and location of the MMSD structure connection shall be field verified by the contractor. Field verification shall take place prior to commencing work towards the connection location and with sufficient time to notify the Engineer of and address any discrepancies from connection locations or elevations shown on the drawings.

Connections for force main shall be made using flexible, watertight connections, PSX Press Seal, Kor-N-Seal, or equal.

Provide concrete anchor block in accordance with the drawings.

D Measurement

The department will measure Connect to MMSD Structure as each individual connect to MMSD structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.503	Connect to MMSD Structure	EACH

Payment is full compensation for providing all materials; for excavation, anchor block construction, backfilling, compaction, disposing of excess material, and for field verifications.

113. Remove Existing Manhole, Item SPV.0060.504.

A Description

This special provision describes removing the existing manhole, casting, and appurtenances as shown on the drawings.

B Materials (Vacant)

C Construction

Manhole barrels and other such structures shall be removed where shown on the drawings to a point 3 feet below existing or final ground surface, whichever is lower, and shall then be filled with backfill material as described in these special provisions. An approximate 9-inch-diameter opening shall be made in the bottom of the any structures to be abandoned to allow for groundwater movement. Remove manhole and appurtenances completely where installation of new sanitary sewer force main is shown on the drawings.

D Measurement

The department will measure Remove Existing Manhole as each individual remove existing sanitary sewer manhole acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.504	Remove Existing Manhole	EACH

Payment is full compensation for removing existing manhole; for excavation, for providing all materials, granular backfill material and backfilling, and compaction; for disposal of surplus materials and for restoring the site.

114. Abandon Existing Forcemain, Item SPV.0060.505.

A Description

This special provision describes the abandonment of the existing 10-inch force main in place as shown on the drawings.

B Materials

All caps, fittings, plugs, vents, and other materials required to abandon the existing force main shall be provided as necessary.

Provide flowable fill in accordance with the following requirements:

Unconfined Compressive Strength: Minimum 75 psi and maximum 150 psi at 56 days.

Placement Characteristics: Self-leveling.

Shrinkage Characteristics: Non-Shrink.

Minimum Wet Density: 90 pounds per cubic foot.

C Construction

Sanitary sewer force main shall be abandoned in place. Abandon sewer lines by completely filling sewer line with flowable fill. Place flowable fill with injection and vent pipes to contain flowable fill in the pipelines to be abandoned.

D Measurement

The department will measure Abandon Existing Force Main as a single unit to abandon the entire length of existing force main acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.505	Abandon Existing Force Main	EACH

Payment is full compensation for excavating, for providing all materials, for flowable fill material and backfilling, compaction, dewatering, and disposal of excess material.

115. Remove Existing Forcemain, Item SPV.0060.506.

A Description

This special provision describes the removal of the existing 10-inch ductile iron force main as shown on the drawings to allow sheet pile installation and retaining wall construction.

B Materials

Submit details for cofferdam and dewatering plans prior to removal of existing force main. Any excavation required within the Yahara River will require the installation of a turbidity barrier meeting the requirements of WDNR Technical Standard 1069 - Turbidity Barriers

C Construction

Remove existing ductile iron force main as required to allow construction of the department's proposed sheetpile and retaining wall. Provide cofferdam systems, dewatering, and turbidity barriers as necessary to allow removal of existing force main.

D Measurement

The department will measure Remove Existing Force Main as each individual remove existing force main, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.506	Remove Existing Force Main	EACH

Payment is full compensation for excavating, for providing all materials, backfilling, compaction, dewatering, cofferdam, turbidity barrier, and disposal of excess material.

116. Construction Staking Force Main, Item SPV.0060.507.

A Description

Perform work according to the applicable provisions of standard spec 650.

B Materials (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain a minimum of two construction stakes to establish location and grade of force main according to the plans and details. Set and maintain construction stakes to establish location and grade of force main. Provide stakes that establish the horizontal and grade elevation of force main at intervals of 25 feet for a minimum of 100 feet from each permanent connection point and at intervals of 50 feet thereafter. Determine offsets in conjunction with contractor requirements. Verify the elevations of existing facilities which are to remain and be connected to. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

Place additional intermittent stakes as necessary to provide staking information at critical areas such as utility, waterway, and structure crossings.

D Measurement

The department will measure Construction Staking Force Main as each individual construction staking acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.508	Construction Staking Force Main	EACH

Payment is full compensation for locating and setting all construction stakes; and for relocating and resetting damaged or missing construction stakes.

117. Concrete Curb & Gutter 24-Inch Type A Special, Item SPV.0090.001.

A Description

This special provision describes constructing concrete curb and gutter as detailed in the plan and in accordance to standard spec 601.

B Materials

Furnish materials in accordance to standard spec 601.2.

C Construction

Construct the curb and gutter according to standard spec 601.3 and to the dimensions detailed in the plans, adjacent pavement structure depth, and shape in which curb and gutter will be tied into.

D Measurement

The department will measure Concrete Curb & Gutter 24-Inch Type A Special by the linear foot, acceptably completed, in accordance to standard spec 601.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.001	Concrete Curb & Gutter 24-Inch Type A Special	LF

Payment is full compensation for foundation excavation, preparation, and backfill if there is no adjacent roadway excavation taking place; for granular subbase or aggregate base if there is no adjacent roadway subbase or aggregate base being placed; special construction required at driveway and alley entrances, or curb ramps; for providing materials, including concrete, expansion joints; for placing, finishing, protecting, and curing; for sawing joints; and for restoring the site. Payment also includes providing tie bars in unhardened concrete. For tie bars provided in concrete not placed under the contract, the department will pay separately under the Drilled Tie Bars bid item as specified in 416.5.

118. Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch, Item SPV.0090.002.

A Description

This special provision describes furnishing and installing reinforced concrete storm sewer.

B Materials

Furnish materials conforming to standard spec 608.2.

C Construction

All construction methods shall conform to standard spec 608.3.

D Measurement

The department will measure Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch by the linear foot acceptably completed and in accordance with the applicable portions of standard spec 608.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.002	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch	LF

The department will pay for Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch as specified in standard spec 608.5.

119. Removing Existing Steel Piling, Item SPV.0090.003.

A Description

This special provision describes removing existing steel piles that conflict with proposed new piling for substructures as shown on the plans.

B (Vacant)

C Construction

Remove any existing steel piling that conflicts with proposed piling locations and as shown on the contract plans.

One of the following methods of removing shall be used:

- Direct Pull: Remove the piling from the soil by pulling directly upward.
- Vibratory Excavation: Remove the piling by vibrating the piling loose and pulling the piling directly upward. Vibratory excavation methods shall be used only if the existing steel piling is located at least 75 feet from the Babcock Park Lock and Dam.
- contractor Proposed: If the contractor chooses to use an alternate method to remove the existing steel piling, provide the engineer with a written methodology for review and acceptance.

When an existing steel piling is found to conflict with the proposed location of a new piling, notify the engineer and receive written acceptance on the method of removal that was chosen prior to beginning any work to remove the steel piling.

Backfill any holes left by pile removal with Backfill Granular Grade 1 or 2 before driving the new piling.

D Measurement

The department will measure Removing Existing Steel Piling by the linear foot, acceptably completed. Measurement will be made along the vertical length of the steel piling removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.003	Removing Existing Steel Piling	LF

Payment for Removing Existing Steel Piling is full compensation for removing existing steel piling, backfilling and for disposing of all material removed. Any additional excavation necessary is included with the bid item Excavation for Structures.

120. Metal Edging, Item SPV.0090.004.

A Description

This special provision describes furnishing and installing of Metal Edging at the locations shown on the plans and as hereinafter provided.

B Materials

The Metal Edging consists of the following:

- Standard commercial-steel, rolled edge.
- Fabricated in sections of standard lengths, with loops stamped from or welded to face of sections to receive stakes.
- Size: 3/16 inch wide by 5 inch deep.
- Accessories: standard tapered ends, corners, and splicers.
- Finish: Standard Paint.
- Paint Color: Black

C Construction

Install where indicated according to manufacturer's written instruction.

Anchor with steel stakes spaced approximately 30 inches apart, driven below top elevation of edging. for all areas to receive Planting Mixture.

D Measurement

The department will measure Metal Edging by the linear foot successfully completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.004	Metal Edging	LF

Payment is full compensation for furnishing and installing all materials, excavating and backfilling where necessary.

121. Security Fence, Item SPV.0090.005.

A Description

This special provision describes providing and removing temporary security fencing at the Yahara River Dam as shown on the plans show and as the engineer directs.

B (Vacant)

C Construction

Construct fence to the minimum strength and height required to restrict access to the dam, as approved by the engineer.

D Measurement

The department will measure Security Fence by the linear foot successfully completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.005	Security Fence	LF

Payment is full compensation for furnishing all materials; erecting posts and fence; and for removing and disposing of fencing.

122. Discontinue Existing 8" Sanitary Sewer, Item SPV.0090.201.

A Description

This special provision describes Discontinue Existing Sanitary Sewer. The work under this item will be in accordance with Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin", February 19, 2022. This specification is available by contacting the Village of McFarland, 5915 Milwaukee Street, McFarland, WI 53558, or by calling (608) 838-3153.

B Materials

Furnish materials that are in accordance with Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

C Construction

Construct items in accordance with Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

D Measurement

The department will measure Discontinue Existing 8" Sanitary Sewer by the methods described in Section 33 31 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.201	Discontinue Existing 8" Sanitary Sewer	LF

Payment is full compensation for all work required by Section 33 31 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

**123. 12" Sanitary Sewer, PVC, Item SPV.0090.202;
8" Sanitary Sewer, PVC, Item SPV.0090.203.**

A Description

This special provision describes 18" Sanitary Sewer, PVC, 12" Sanitary Sewer, PVC, 8" Sanitary Sewer, PVC, 4" Sanitary Sewer, PVC. The work under this item will be in accordance with Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin", February 19, 2022. This specification is available by contacting the Village of McFarland, 5915 Milwaukee Street, McFarland, WI 53558, or by calling (608) 838-3153.

B Materials

Furnish materials that are in accordance with Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

C Construction

Construct items in accordance with Section 33 31 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

D Measurement

The department will measure Sanitary Sewer, PVC by the methods described in Section 33 31 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.202	12" Sanitary Sewer PVC	LF
SPV.0090.203	8" Sanitary Sewer, PVC	LF

Payment is full compensation for all work required by Section 33 31 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

**124. 6" Water Main, Ductile Iron, Item SPV.0090.204;
10" Water Main, Ductile Iron, Item SPV.0090.205.**

A Description

This special provision describes Water Main, Ductile Iron. The work under this item will be in accordance with Section 33 11 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin", February 19, 2022. This specification is available by contacting the Village of McFarland, 5915 Milwaukee Street, McFarland, WI 53558, or by calling (608) 838-3153.

B Materials

Furnish materials that are in accordance with Section 33 11 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

C Construction

Construct items in accordance with Section 33 11 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

D Measurement

The department will measure Water Main, Ductile Iron by the methods described in Section 33 11 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.204	6" Water Main, Ductile Iron	LF
SPV.0090.205	10" Water Main, Ductile Iron	LF

Payment is full compensation for all work required by Section 33 11 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

125. Sanitary Sewer 18-Inch, Item SPV.0090.301; Sanitary Interceptor Sewer 30-Inch, Item SPV.0090.302; Trench Backfill, Item SPV.0090.303.

A Description

A.1 Applicable Provisions

Applicable provisions of Water and Sewer construction in the State of Wisconsin.

A.2 Applicable Publications

The following publications of the issues listed below, but referred to thereafter by basic designation only, form a part of this specification to the extent indicated by the reference thereto.

- o American Society for Testing and Materials (ASTM), Annual Book of ASTM Standards, Current Edition.

A.3 Description of Work

The work under this section shall cover furnishing and installing all pipe and fittings for the sanitary sewer as shown on the contract drawings and as specified herein.

A.4 Submittals

Submit such product literature and catalog cuts of materials to be supplied to relate these materials to the specifications.

Submit such submittals and details required for the construction and installation of the materials.

Submittals and details shall indicate the intended materials arrangement, dimensions, major support requirements, plot area and intricate or detailed construction requirements.

B Materials

B.1 Pipe

The 18-inch diameter pipe shall be Type PSM SDR-26 (115 PSI) and meet the requirements of ASTM F679. Pipe shall be of the bell and spigot type.

The 30-Inch Sanitary Sewer Interceptor Pipe shall consist of either:

- o Fiberglass Hobas Pipe (SN 72 and PN 50) meeting ASTM D3262, or
- o Flowtite GRP Fiberglass Reinforced Pipe (SN 72 and PN 50) meeting ASTM D3262, or
- o Diamond Plastics SANI-21 F679 (SDR 26 and 115 psi).

B.2 Pipe Joints

B.2.1 General

Manufacturer's instructions for making joints shall be followed. The use of joints as specified herein shall not relieve the contractor of the responsibility of meeting testing specifications.

B.2.2 Sanitary Interceptor Pipe

Manufacturer's instructions for making joints shall be followed and specific for the pipe being used. Hobas pipe joints shall be FWC coupling conforming to ASTM D4161. Flowtite GRP Fiberglass Reinforced Pipe shall be double-bell coupling gasketed joints conforming to ASTM D4161. PVC pipe joints shall be elastomeric seals (rubber gaskets) conforming to ASTM F477 and joint assembly conforming to ASTM D3212. Other pipe materials shall use sufficient joints specific to pipe material.

C Construction

C.1 General

All construction shall be done in conformance with "Standard Specifications for Sewer and Water Construction in Wisconsin" except as may be modified herein.

Plastic pipe shall be installed in accordance with ASTM D2321.

Arrange for a pipe preinstallation meeting with the piping supplier(s) and manufacturer(s) prior to the work beginning. Invite the MMSD and conduct this meeting when the entire crew is onsite. The meeting should cover topics such as manufacturer recommendations for: handling/unloading, storage, lifting, pushing home, bedding/support, lube/greasing, cutting/beveling, cold weather considerations, manhole connection considerations, backfilling, compaction, testing, deflection, backfill, and field support contact. The manufacturer shall distribute hardcopies of the installation guide to the crew at this time.

C.2 Lines and Grades

All lines and grades will be provided by the contractor. The contractor will be responsible for the preservation of line and grade stakes when set.

Furnish and place in position all necessary equipment and material for locating the work from the line and grade stakes. It is the contractor's responsibility to check grade stakes in advance of the excavation.

Sanitary sewer pipe shall be laid at a constant grade and alignment between manholes with no sags or bends in the pipe. contractor assumes responsibility for the vertical and horizontal alignment of the installed pipe (i.e. sags and bends) and shall correct these deficiencies as his expense.

C.3 Excavation

Excavation shall conform to the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction.

C.4 Unstable Soil

Engineer reserves right to order additional excavation below pipe bedding zone where unsuitable foundation conditions exist. When this condition arises, excavation shall be carried to such depth as directed by Engineer. Maximum width of extra trench shall be outside diameter of pipe or proposed structure plus a minimum of 18-inches on either side. Stabilization (foundation) stone shall be installed and compacted to replace excavated material to elevation of bottom of bedding. Foundation stone shall be wrapped in fabric according to the standard bedding detail.

Stabilization stone shall be crushed stone from crushing sound limestone or dolomite ledge rock or other rock materials of regional availability shall be hard, tough, durable and conform to following gradation:

Gradation (ASTM C33 - Size No. 2):

Sieve Size	% Passing by Weight
3 in.	100
2-1/2 in.	90 - 100
2 in.	35 - 70
1 1/2 in.	0 - 15
3/4 in.	0 - 5

C.5 Embedment

Bedding and cover material for sanitary sewer main, regardless of pipe material, shall be crushed stone chips from crushing sound limestone or dolomite ledge rock or other rock materials of regional availability, shall be hard, tough, and durable and conform to following gradation:

Gradation No. 2 (ASTM C33 - Size No. 67):

Sieve Size %	Passing by Weight
1 in.	100
3/4 in.	90 - 100
3/8 in.	20 - 55
No. 4	0 - 10
No. 8	0 - 5

Cover materials shall be same materials as bedding material specified above.

Trenches shall be hand backfilled to the top of the cover material. The equivalent of hand backfill may be accomplished by machine providing the bucket is lowered to approximately 1 foot above top of pipe and material is slowly released to avoid impact on pipe and to avoid uneven pressures on either side of pipe.

- Bedding material for sanitary sewer main shall extend from the stabilization stone or undisturbed trench bottom to a plane 12 inches above top of pipe.
- A minimum bedding depth of 12 inches shall be provided below bottom of all pipe and manholes.
- Bedding material shall extend across full width of trench.
- Bedding material shall be deposited, spread and leveled, as hereinbefore provided in layers generally not exceeding 12-inch in thickness before compaction. The stone for each layer shall be placed consistently against the pipe and trench sidewall such that appreciable voids (including significant multiple overlapping of geo-textile) are not present. Each stone layer shall be compacted to the degree that no further appreciable consolidation is evidenced under the action of the compaction equipment. The required compaction shall be attained for each layer before any material for a succeeding layer is placed thereon.

The compaction shall be performed by specialized compaction equipment involving a plate compactor (or equivalent) that weighs a minimum of 150 pounds. A minimum of 4 passes are required (2 each way). More passes could be necessary until no further appreciable consolidation is evidenced. The required results are subject to the approval of Engineer.

C.6 Backfilling

Unless otherwise provided, all trenches and excavations shall be backfilled immediately after pipe and appurtenances have been constructed therein.

- Backfill material shall be brought up evenly on all sides of pipe and structures so that no unbalanced pressure is brought to bear upon pipe or masonry.
- Backfill all excavations to original ground elevation unless otherwise specified.
- Material excavated from trench shall be used for backfill, unless otherwise specified or noted on Drawings for backfill of trenches outside limits of paved areas. All disturbed material beneath and within the zone of influence (1:1 slope) of paved areas shall be backfilled with granular backfill materials.
- All backfill material shall be subject to approval of the Engineer.

Granular trench backfill shall conform to requirements of Section 209 of State of Wisconsin Department of Transportation, "Standard Specifications for Highway and Structure Construction," Latest Edition. Gradation shall be such that not less than 100 percent passes a 6-inch sieve, not less than 85 percent by weight passes a 3-inch sieve and not less than 25 percent by weight passes a No. 4 sieve. Material shall be free from dirt, debris, frozen materials, vegetable matter and lumps or balls of clay. Material shall be generally identified as pit run sand, pit run sand and gravel, crushed stone base course or crusher run crushed stone.

C.7 Compaction

Provide mechanical compaction for cohesive material and vibratory compaction for granular materials.

Lift Thickness and Compaction: Place and compact fill materials in maximum lift thicknesses and to minimum densities listed below.

Material / Location	Lift Thickness (in.)	Modified Proctor (%)
Select Sand Backfill within 3 feet below subgrade under paved surfaces, gravel parking surfaces, or RR corridor	12	95
Select Sand Backfill deeper than 3 feet below subgrade under paved surfaces, gravel parking surfaces, or RR corridor	12	90
Cohesive Material under paved surfaces when approved by ENGINEER	8	90
Stabilization Stone	6	95
Bedding Material	6	95
Granular Material under non-paved areas and paths	12	90
Cohesive Material under non-paved areas	12	85

Excavation across vegetated areas shall have all topsoil segregated from remaining excavated trench material. Placement of excavated material back into trench shall conform to the same stratification that existed prior to excavation. Only excavated material other than topsoil shall be hauled from site as excess excavated material.

C.8 Installation

Have sufficient and adequate equipment on the site of the work for unloading and lowering pipe into the trench. Extreme care shall be exercised by the contractor in handling all pipe so as to prevent breakage. Under no circumstances shall they be dropped into the trench or so handled as to receive hard blows or jolts when being moved.

Before lowering and while suspended, the pipe or fittings shall be inspected for defects. All materials used in the work must pass field inspection.

Unless otherwise ordered, pipe shall be laid with the bell ends facing upgrade.

Every precaution shall be taken to prevent foreign material from entering the pipe while it is being placed in the line.

Joints shall be lubricated, cemented, or otherwise made in strict conformance with these specifications and manufacturer's instructions.

Sewers to be stubbed out from new manholes shall end with a pipe bell end and have the end plugged to prevent the entrance of soil and water. The cost of plugs shall be included in the unit price bid of the sanitary sewer.

C.9 Connection to Existing

Verify the location, size, depth and material of the existing sanitary sewer or lateral and shall provide all necessary materials and labor to make a watertight connection. Report any discrepancies between contract drawings and field conditions to the Engineer.

C.10 Structure Seals

Plastic pipe shall be provided with approved water stops where encased in the walls of manholes.

C.11 Pipes to be Cleaned

The interior of all pipes shall be carefully freed from all dirt, concrete and superfluous material of every description as the work progresses. If, in the opinion of the Engineer, the pipe contains an excess of material, the pipe shall be cleaned by the contractor at no additional expense to the Owner.

C.12 Testing

C.12.1 General

The following tests shall be performed by the contractor in the presence of the Engineer. The contractor is responsible for providing all labor, materials and equipment for the testing.

C.12.2 Infiltration Test.

The sanitary sewer and all connections and laterals shall be measured for infiltration at points designated by the Engineer. The tests for infiltration shall be conducted in a manner as approved by and under the direction of the Engineer. Infiltration shall be measured using either the water test or the low pressure air test. The sewer and connections shall have a rate of infiltration less than 200 gallons per inch of pipe diameter per mile per day.

- Water Test. The test shall be performed using a minimum positive head of 2 feet of water. Maximum allowable exfiltration shall be 200 gallons per inch of pipe diameter per mile per day.
- Low Pressure Air Test. Sewer lines shall be air tested in accordance with ASTM F1417, entitled "Standard Test Method for Installation Acceptance of Plastic Gravity Sewer Lines Using Low-Pressure Air". The air test shall be made in the presence of the Engineer. All equipment necessary for said air test shall be provided by the contractor and approved by the Engineer.

C.12.3 Televising

All new sanitary interceptor sewer main and connections shall be televised in accordance with Televising Sanitary Sewer specification for alignment and other deficiencies. The work shall include the new MMSD sanitary sewer interceptor and the Village of McFarland sewer. The contractor is be responsible for all labor and equipment necessary to access the sewer, clean the sewer, if necessary, control existing flow, and for providing a written report and video as described in the specifications. All costs associated with; televising and cleaning the sewer interceptor mains that are reconstructed shall be included in the Televising Sanitary Interceptor bid item. Televising and repair if needed shall be done prior to placement of subbase materials. When sewer line flows are above the minimum requirements (generally not more than 1/4 of the pipe diameter) or inspection of the complete periphery of the pipe is necessary to effectively conduct the inspection and sealing operations, one or more of the following methods of flow control shall be used at no extra cost to the MMSD:

- Plugging or Blocking: A sewer line plug shall be inserted into the line at a manhole upstream from the section to be inspected, tested and/or sealed. The plug shall be so designed that all or any portion of the sewage flows can be released. During the inspection portion of the operation, flows shall be shut off or substantially reduced in order to properly inspect the pipe at the invert. After the inspection is complete, flows shall be restored to normal or not more than 1/3 of the pipe diameter during the joint testing and joint sealing operation.
- Pumping and Bypassing: Where pumping is required, in the opinion of the Engineer, to assure completion of the inspection and sealing work, the contractor will be required to furnish pumping equipment, conduits, etc. All costs for flow control, temporary pumping, etc., shall be inclusive to testing and shall be included in the unit price bid for the related sanitary sewer item. No bypassed wastewaters will be allowed to be discharged to surface drainage facilities.
- Liability: contractor shall be liable for damages to private or public property which may result from sewer flow control operations.

C.12.4 Deflection Test

All pipe installations shall be tested for deflection by using a mandrel and shall be performed in accordance with ASTM D2321 and without the use of mechanical pulling devices. The test shall be conducted no earlier than 30 days after all backfill has been placed and consolidated. For acceptance, the mandrel must pass through the entire section between manholes or other structures in one pass when pulled by hand without the use of excessive force. Maximum allowable deflection of PVC and Flowtite pipe shall be 5% of the pipe "base I.D." as shown in the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, including Addendum No. 1 and Addendum No. 2. Hobas pipe shall have the maximum allowable vertical cross-section deflection measured within the first 24 hours after completion of backfilling and shall not exceed 3% of the original pipe diameter. Maximum allowable 30 day deflection shall be 4% of the initial diameter for the FRP pipe. All testing shall be done under the observation of the Engineer.

C.12 5 Acceptance

If any of the tests are not met, the contractor shall, at his own expense, determine the source of the problem and repair or replace all defective work.

C.13 Maintaining Sanitary Sewer Service

Provide adequate equipment and facilities to provide bypass pumping for all elements of work requiring interruption to flow in the sanitary sewer. Provide backup or standby capabilities satisfactory to the MMSD. The contractor shall be responsible for damages to private or public property due to sewer backup while controlling sewage flow.

Under no circumstances will bypassing of untreated wastewater to any storm drainage facility or surface water course be allowed.

D Measurement

The department will measure Sanitary Main (size) and Trench Backfill by the linear foot along the centerline of pipe including fittings and valves, and the quantity measured for payment will be length of sanitary sewer constructed in accordance with the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.301	Sanitary Sewer 18-Inch	LF
SPV.0090.302	Sanitary Interceptor Sewer 30-Inch	LF
SPV.0090.303	Trench Backfill	LF

Payment is full compensation for providing all labor and materials, including pipe and miscellaneous items for installing a complete working system, for all excavating, except rock excavation; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for dewatering; for sealing joints and making connections to new or existing pipe or fixtures; for installing clay dams; for backfilling and compacting; for providing granular backfill material, including bedding material; for removing sheeting and shoring; for testing; for cleaning out pipes and structures; and restoring the worksite.

126. Abandon Existing Sanitary Sewer, Item SPV.0090.304.

A Description

This special provision describes the required abandonment of the existing MMSD pipes to remain in place following construction. Abandonment should be coordinated with the adjacent construction work. Work includes all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

B Materials

Sanitary Sewer fill shall consist of cementitious materials such as EF as manufactured by Elastizell, Inc. or approved equal.

Cementitious material shall comply with ASTM C150, C595, or C1157. Elastizell, pozzolaus, and other cementitious materials must be used. Maximum 28 day strength shall be minimum of 50 psi and a maximum of 90 psi.

C Construction

Plug a minimum concrete length of 12-inches into the pipe, while allowing means for sufficient venting. Use of bulkheads are at the contractor's discretion. contractor is responsible for installing and monitoring all formwork and bracing to support filling operations. Formwork or bracing, etc. installed must be secured and be able to withstand all forces. Materials under no circumstances are permitted to travel downstream which may damage MMSD pumps.

contractor to install a lightweight cellular concrete within the full lengths of the sanitary sewers to be abandoned as noted on the contract documents. Provide a shop drawing to the Engineer for approval prior to the work. Submittal is to include expansion factor and buoyancy calculations. contractor is responsible for removing all formwork and bracing installed in active manholes after 7 days of pouring.

D Measurement

The department will measure Abandon Existing Sanitary Sewer by the linear foot approved and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.304	Abandon Existing Sanitary Sewer	LF

Payment is full compensation for providing required materials and labor to appropriately abandon the sewer interceptor. Supply concrete tickets with the volume of cellular concrete used for each section to the Engineer for verification of the amount of fill installed being sufficient in each section.

127. Remove Existing Sanitary Sewer, Item SPV.0090.305.

A Description

This special provision describes the removal of the existing sanitary sewer within the project as noted on the contract documents. Work includes all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

B (Vacant)

C Construction

Remove the existing sanitary sewer as noted on the contract documents. The McFarland sanitary sewer is anticipated to exist as asbestos cement pipe per records. Remove and dispose of the pipe as necessary. Pipes shall be cut at appropriate locations with existing joints once exposed and cut as square to the pipe as possible. Temporarily plug pipe ends to be connected to in the future.

D Measurement

The department will measure Remove Existing Sanitary Sewer as the linear foot removed and approved by the utility Owner.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.305	Remove Existing Sanitary Sewer	LF

Payment is full compensation for providing required materials, excavation, and labor to remove the existing sanitary sewer required.

128. Televis Sanitary Interceptor, Item SPV.0090.306.

A Description

This Specification covers the work necessary to clean and televise specified sections of the Madison Metropolitan Sewerage District's collection system.

MMSD is utilizing Pioneer by SewerAI for managing Pipeline Assessment Certification Program (PACP) data. MMSD will provide access to a field uploader license for the contractor to use during the project. Use Pioneer by SewerAI for managing PACP data during the project. Follow the specifications in Part C for using artificial intelligence cloud computing and computer vision automated defect recognition software. Capture the video in Pioneer by SewerAI and submit to MMSD for review. MMSD shall submit accepted videos for AutoCode in Pioneer by SewerAI.

Submittals shall be performed prior to the start of project. MMSD and contractor must have designated licensing access to Pioneer by SewerAI and contractor must submit in accordance with the specifications.

B Materials (Vacant)

C Construction

This specification references standards from the National Association of Sewer Service Companies (NASSCO), including the following: Pipeline Assessment Certification Program (PACP) and Recommended Specifications for Sewer Collection Rehabilitation, Specification for Television Inspection Main Sewer, and Specification for Sewer Line Cleaning hereof by such reference and shall be the latest edition and revision thereof. In case of conflicting requirements between this specification and these referenced documents, this specification will govern.

The Specification Guidelines for Sewer Condition Assessment Powered by Artificial Intelligence (AI) Computer Vision Automated Defect Recognition (ADR) Software are included under Part 3.

For the contractor to be qualified, they must have adequate televising cable and adequate jetter hose available for use on a standard televising vehicle. Use PACP-certified data collection software capable of compiling data from multiple inspections, sorting the data based on a user defined field, and in accordance with NASSCO v7 or greater.

C.1 Submittals

Submit the following for review and approval to the MMSD Engineer:

C.1.1 Equipment Data

- Submit manufacturer's product literature and application for the inspection camera(s) to be used and how it (they) will be mounted or setup with the pre-qualification documents.
- Submit manufacturer's product literature and application for the cleaning equipment intended to be used on this project with the pre-qualification documents.
- Within 30 days of Notice to Proceed, submit contractor staff information to MMSD for access to field uploader license of Pioneer by SewerAI.
- Submit a sample televising video using Pioneer by Sewer AI (the PACP-certified data collection software for use on this project) a minimum of one (1) week prior to starting work to verify software compliance.

C.1.2 Digital Video and Televising Logs

- Submit digital video of pipes in post-cleaning condition in format in accordance with section 306.
- Submit televising logs in database format as generated by Pioneer by SewerAI PACP-certified data collection software and detailed in section 306.

C.1.3 Project Approach

- Submit project approach detailing access routes for sensitive or limited access areas to MMSD within 30 days of Notice to Proceed or a minimum of two (2) weeks prior to the start of work, whichever comes first, to be reviewed at Project Kick-Off meeting.
- iSubmit bypass pumping plan, if applicable, including: list of equipment, primary and backup pump sizes, estimated length of time required for bypassing, and planned pump suction and discharge locations as detailed in section 203(9).
- Provide MMSD a minimum of two (2) weeks notice prior to beginning work.

C.2 contractor's Insurance

The contractor is required to obtain insurance as specified.

C.3 Safety

The contractor agrees to perform all work under this contract in accordance with local, state, and federal safety regulations. This includes, but is not limited to, evaluation of the atmosphere to determine the presence of toxic or flammable vapors or lack of oxygen prior to entering the manholes and the use of confined space entry techniques and equipment. All work must be performed in accordance with all applicable OSHA requirements.

C.4 Cleaning of Sewer Lines

Clean the sanitary sewers utilizing high-velocity sewer cleaning equipment and may require more than one pass of the jetter if debris accumulation is extensive.

Post cleaning condition of the pipe is subject to review and approval of the Engineer. If TV inspection shows the cleaning to be unsatisfactory, the contractor will be required to re-clean and re-inspect the sewer line until the cleaning is shown to be satisfactory.

Furnish water for cleaning and flushing the existing sewer pipe. If necessary, coordinate the purchase of water from the applicable water utility at the contractor's expense. Cost for water shall be included in the unit bid prices.

C.4.1 Cleaning Precautions

During sewer cleaning operations, satisfactory precautions shall be taken in the use of cleaning equipment. When hydraulically propelled cleaning tools (which depend upon water pressure to provide their cleaning force) or tools which retard the flow in the sewer line are used, precautions shall be taken to ensure that the water pressure created does not damage or cause flooding of public or private property being served by the sewer. When possible, the flow of sewage in the sewer shall be utilized to provide the necessary pressure for hydraulic cleaning devices. When additional water from fire hydrants is necessary to avoid delay in normal work procedures, the water shall be conserved and not used unnecessarily. No fire hydrant shall be obstructed in case of a fire in the area served by the hydrant.

C.4.2 Mineral Deposit Removal

Notify MMSD if mineral deposits are encountered. MMSD may request pricing for removing the mineral deposits to determine if a change order will be issued to complete the work on a time and materials basis.

C.4.3 Root Removal

Notify MMSD if roots are encountered. MMSD may request pricing for removing the roots to determine if a change order will be issued to complete the work on a time and materials basis.

C.4.4 Material Removal

Remove all internal debris, sludge, dirt, sand, rocks, grease, hanging gaskets, and other solid or semisolid material from the sewer line. Material shall be removed at the downstream manhole of the section being cleaned. Passing material from manhole section to manhole section, which could result in line stoppages, accumulations, sand in wet wells, and could damage pumping equipment, shall not be permitted. All debris must be removed from the pipe and shall not be permitted to flow downstream. If any debris is passed downstream, clean the affected section(s) of sewer main at no additional cost to the MMSD.

C.4.5 Disposal of Materials

Dispose all of the debris removed from the pipeline at a licensed disposal facility. All solids or semisolids resulting from the cleaning operations shall become the property of the contractor. All materials shall be removed from the project site and properly disposed of by the contractor at least at the end of each workday. Under no circumstances will the contractor be allowed to accumulate debris, solids, etc., on the site of work beyond the stated time, except in totally enclosed containers and as approved by the Engineer. The Nine Springs Wastewater Treatment Plant will not accept cleaning debris. However, the drying beds at the Nine Springs Wastewater Treatment Plant may be available for the contractor to use for temporary storage (not disposal) of materials but would require approval by the District prior to use.

C.5 Cleaning Equipment

C.5.1 Hydraulically Propelled Equipment

The equipment used shall be of a movable dam type and be constructed in such a way that a portion of the dam may be collapsed at any time during the cleaning operation to protect against flooding of the sewer. The movable dam shall be equal in diameter to the pipe being cleaned and shall provide a flexible scraper around the outer periphery to insure removal of grease. If sewer cleaning balls or other equipment which cannot be collapsed is used, special precautions to prevent flooding of the sewers and public or private property shall be taken.

C.5.2 High-Velocity Jet (Hydrocleaning)/Vactor Truck Equipment

All high-velocity sewer cleaning equipment shall be constructed for ease and safety of operation. The equipment shall have a selection of two or more high-velocity nozzles. The nozzles shall be capable of producing a scouring action from 15 to 45 degrees in all size lines designated to be cleaned. Equipment shall also include a high-velocity gun for washing and scouring manhole walls and floor. The gun shall be capable of producing flows from a fine spray to a solid stream. The equipment shall carry its own water tank, auxiliary engines, pumps, and hydraulically driven hose reel. The NASSCO Jetter Code of Practice shall be consulted as a guide for the selection of different type nozzles and recommended pressure applications for various cleaning requirements.

C.5.3 Mechanically Powered Equipment

Bucket machines shall be in pairs with sufficient power to perform the work in an efficient manner. Machines shall be belt operated or have an overload device. Machines with direct drive that could cause damage to the pipe will not be allowed. A power rodding machine shall be either a sectional or continuous rod type capable of holding a minimum of 750 feet of rod. The rod shall be specifically heat-treated steel. To ensure safe operation, the machine shall be fully enclosed and have an automatic safety clutch or relief valve.

C.5.4 Large Diameter Cleaning

For cleaning large diameter sewer, storm or combination pipes, consideration should be given to a combination hydraulic high-volume water and solids separation system. The flow from the sewer will provide water for the pump operation so no potable water is necessary and treatment costs are not a factor. Water volume of up to 250 GPM at 2000 PSI+ will move solids to the downstream manhole in high flow conditions. The separation system will dewater solids to 95% (passing a paint filter test) and transfer them to a dump truck for transport to a sewage treatment plant or approved landfill. Sewer water will be

filtered to a point where it can be used in the pump for continuous cleaning. No by-passing of sewer flows will be necessary. The unit shall be capable of 24-hour operation and the unit shall not leave the manhole until a section is fully cleaned. The use of such a system will be per the engineer's approval. The Engineer may require the contractor to submit a shop drawing of the system before approval or use.

C.6 Inspection of Sewer Lines

After cleaning, the manhole sections shall be visually inspected by means of closed-circuit television (CCTV). The inspection will be done one manhole section at a time and the flow in the section being inspected will be suitably controlled as specified.

Provide all supervision, equipment, labor, and material necessary for the proper internal inspection of sewers. Internal inspection of sewers shall be by closed circuit television. MMSD will provide the contractor with access to a field uploader license of Pioneer by SewerAI that must be used to capture the CCTV video and submit for MMSD review. MMSD will submit inspection for AutoCode.

All inspections shall follow the Pipeline Assessment Certification Program (PACP) protocol as established by the National Association of Sewer Service Companies (NASSCO).

The television camera shall be specifically designed and constructed for sewer inspection and shall take pictures in color, not black and white, and shall provide pan-and-tilt viewing. Lighting for the camera shall be suitable to allow a clear picture for the entire periphery of the pipe. The camera shall be operative in 100 percent humidity conditions. The camera shall have a minimum of 600 line resolutions. Picture quality and definition shall be to the complete satisfaction of the District. If unsatisfactory, equipment shall be removed and no payment made for unsatisfactory inspection. The video system shall have the capability of transferring the color video to an MPEG digital format compatible with personal computers.

Unless otherwise authorized by the District's representative, the television camera shall be moved through the sewer line downstream at a moderate rate by means of cable winches at each manhole, or a tractor style. In no case will the television camera travel at a speed greater than 30 feet per minute. It shall travel at a rate which will allow the contractor and the District's representative (if present) to completely and thoroughly inspect the sewer line. Direction of travel and viewing shall be downstream unless otherwise authorized by the District's representative. If the television camera will not pass through the entire section from upstream manhole to downstream manhole, set up equipment so that the inspection can be performed from the downstream manhole. If the camera fails to pass through the entire section, the inspection shall be considered complete, noted as 'Survey Abandoned' on the inspection records, and no additional inspection will be required.

When manually operated winches are used to pull the television camera through the line, telephones or other suitable means of communication shall be set up between the two winches and the monitor control to insure good communications between members of the crew. The monitor shall be located in a mobile TV studio and shall be accessible to the District's representative at all times.

The importance of accurate distance measurements is emphasized. Measurement for location of defects shall be above ground by means of a meter device. Marking on the cable, or the like, which would require interpolation for depth of manhole, will not be allowed. Accuracy of the distance meter shall be checked by use of a walking meter, roll-a-tape, or other suitable device, and the accuracy shall be satisfactory to the District's Representative.

C.7 Inspection Records

Provide all supervision, equipment, labor, material, and incidentals necessary for the proper internal inspection of sewers. Internal inspection of sewers shall be by closed circuit television. MMSD is utilizing Pioneer by SewerAI for managing PACP data. Follow the specifications in Part 3 for using artificial intelligence cloud computing and computer vision automated defect recognition software.

C.8 Line Obstructions

Clear the line of all obstructions such as solids, hanging gaskets, dropped joints, protruding service connections, crushed pipe, and reductions in the cross-sectional area. Removal of line obstructions is incidental to the contract work if the obstruction can be removed with conventional sewer cleaning equipment and methods.

If inspection reveals that an obstruction cannot be removed by conventional sewer cleaning equipment, immediately notify MMSD. MMSD shall determine if the obstruction is able to be removed by sewer cleaning equipment and, if not, if the particular section of main shall be repaired by the District or removed from the Contract. In the event that the Engineer determines that a repair shall be made, proceed with work on other sections of main and return to the obstructed main after the District has

completed the necessary repair(s). No additional compensation shall be made to the contractor as a result of any delays necessitated by such repairs.

C.9 Sewer Flow Control

During sewer cleaning and televising operations, the sewage flow depth shall be less than or equal to 25 percent of the inside diameter. Televising of new sewer shall be completed prior to flow being active in the new sewers to the extent possible. All flow control procedures are subject to the District's approval, and no flow control procedure shall be initiated unless it has been specifically approved in advance by the District. Flow control measures, if approved by the District, may include one or more of the following: conducting sewer cleaning and televising operations during the lowest-flow period of the day (e.g. midnight to 6 a.m.), temporary plugging or blocking of the flow (only where specifically approved), diversion pumping of the flow to bypass the sewer sections being cleaned/televised.

If sewage flow depth is less than or equal to 25 percent of the inside diameter, and bypassing or plugging of flow is not in use, then lower the water level with the use of a jetter in front of the camera during the final inspection will be required.

When temporary plugging or blocking is approved, insert an acceptable sewer line plug into the line upstream of the section being worked. The plug shall be so designed that all or any portion of the sewage can be released. During TV inspection and cleaning operations, flow shall be reduced to within the limits specified above. Remove the plug well in advance of any possible sewage bypass or basement flooding. After the work has been completed, flow shall be restored to normal. Monitor the wastewater depth upstream of the sewer plug throughout the entire period that the plug is in place. Any damage due to back up is the contractor's responsibility.

When diversion pumping is required, supply the pumps, conduits, and other equipment to divert the flow of sewage around the manhole section in which work is to be performed. The diversion system shall be of sufficient capacity to handle existing flow plus additional flow that may occur during a rainstorm. Furnishing the necessary labor and supervision to set up and operate the diversion pumping system. If pumping is required on a 24-hour basis, engines shall be equipped in a manner to keep noise to a minimum. Monitor the wastewater depth upstream of the diversion throughout the entire period that the diversion is in operation. A representative of the contractor must be on-site at all times that bypass pumping is in operation.

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 of the District. Hoses crossing streets, driveways, parking areas, etc., are to be ramped over to prevent damage to the hoses. Bypass pumps shall be sized to handle the peak flow with one pump out of service. contractor must always have a backup pump ready in case a pump fails.

When flow in a sewer line is plugged, blocked, or diverted, the contractor must take sufficient precautions to protect the sewer lines and property from damage that might result from sewer surcharging, and to ensure that sewer flow control operations do not cause flooding or damage to public or private property being served by the sewers involved. The contractor is responsible for any and all damage due to any type of sewer back up.

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 cleaning or televising operations.

Prior to submitting a bid for this project the contractor must familiarize themselves with the sanitary sewerage facilities in this area and develop an adequate bypassing plan if necessary. A written plan shall be submitted to the District for approval prior to the start of work.

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

The cost of bypassing shall not be paid separately, but shall be included in the unit prices in the contract.

C.10 Water for Cleaning and Flushing

Furnish water for cleaning and flushing the existing sewer pipe. Obtain permission from the appropriate local water utilities to use any fire hydrants in the area. Notify affected water utilities prior to initiating cleaning and flushing operations and shall coordinate their operations with the utilities so as not to deplete the local water supply. The cost to purchase water for cleaning and flushing shall be included in the unit prices bid for such work.

C.11 Traffic Control

Prepare and implement a Traffic Control Plan to facilitate cleaning and televising operations. The contractor is responsible for obtaining and paying all fees for any permits required. All traffic control, including signing and barricading of work areas, shall conform to the Federal Highway Administration's "Manual on Uniform Traffic Control Devices."

Adhere to any specific traffic control requirements set forth by the City(s) or municipality(s) in which the work is to be done and/or the Wisconsin Department of Transportation. These requirements may include but are not limited to peak hour restrictions for work on public roadways.

The cost of all traffic control devices and maintenance is paid separately on the project.

C.12 Use of Site

The contractor is responsible for determining the suitability of access points to the interceptor. Submit access routes for approval by the District before beginning work. contractor is responsible for matting private property and restoring any disturbed areas.

Notify the District at least 3 days prior to anticipated work on private property. District will coordinate all contact with landowners. Limit activities to within the District's easement on private properties.

C.13 Property Damage

Immediately investigate any and all reports of sewage backing up into fixtures served by the sewer section that is being cleaned or televised. Notify the MMSD immediately if any damage to private or public property has occurred from activities related to this contract. Make repairs and/or clean the property immediately in a timeframe that is acceptable to the MMSD.

C.14 Clean-Up

Upon acceptance of the installed work and testing, restore the project area affected by the operations to a condition at least equal to that existing prior to the work. Any grass areas disturbed shall be fine graded, seeded, and mulched. Clean up includes, but is not limited to removing rubbish, debris, dirt, equipment and excess material from the site. Clean adjacent surfaces soiled by and during the course of work. This is incidental to the contract work.

C.15 Deliverables

CCTV inspections will be delivered in electronic format. MMSD is utilizing Pioneer by SewerAI for managing PACP data. Follow the specifications for the Digital Submittal.

C.16 AI-Enabled Sewer Inspection Methodology for Capturing CCTV Data in the Field:

All inspection camera operators must possess current NASSCO PACP Certification, with those credentials to be listed in the Surveyed By and Certificate Number fields (PACP Survey Header form fields 1 and 2).

In instances of use of analog CCTV (pan & tilt) inspection technologies, cameras should be set at the appropriate height for the pipe size and shape (centered in the middle for circular pipe), and shall traverse the pipe at a steady pace, not to exceed 30 ft (9m) per minute.

In instances of use of Digital Side Scanning (DSS) inspection technologies that utilize higher resolution and more advanced optics, equipment may traverse up to 70 ft per minute.

The operator's objective in positioning the camera to view a defect or feature will be to provide a perspective view of the defect and the entire circumference of the surrounding pipe.

Regarding the following conditions, the operator shall stop and pan the camera to capture a direct view of:

- Any Broken pipe or missing pipe with surrounding Soil or Voids Visible
- Serious Surface Damage (such as projecting or missing aggregate)
- Joint Separations
- Patch Repairs or Lining Features such as wrinkles and bulges
- Missing brick/tile/mortar (where applicable)
- "Cross bore" defects such as obstructions intruding through pipe walls etc.
- Lateral tap connections/reinstallments

CCTV operators shall begin each inspection at the access point wall, capturing video of the interior of pipes, as per NASSCO PACP guidelines, until camera reaches adjacent access point, or until survey is abandoned in-pipe.

CCTV operators shall be responsible for accuracy of data entry and verification of accuracy of structure IDs and/or GIS attributes, and all survey header information, as required by the MMSD.

C.17 Data Collection Inspection Software Recommendations

The software used on the inspection truck shall be a current NASSCO PACP certified inspection software.

The software shall be capable of compiling data from multiple inspections, sorting the data based on a user defined description field, and in accordance with NASSCO v7.

The software shall be capable of translating field data to a GIS database used by the MMSD.

The software shall enable both CCTV (analog) video and digital side scan inspections ("inspections") to be recorded from push camera, lateral launch, Pan Tilt Zoom, and Digital Side Scan hardware as digital .mp4, .mp2, .mpg, .wmv, .webm, .avi, .mov, .ipf, and .gnet files ("files").

The files shall have indexes to the condition observations and time stamped to the video playback.

The inspection system cable footage-counter shall measure the distance traversed by the camera along the pipe between access points, regardless of the "buckle" distance and/or equipment calibration. The counter shall be accurate to plus or minus 2 feet in 1,000 feet, and clearly displayed on screen.

C.18 Computer Vision for Automated Defect Recognition Standards and Guidelines

Vendor shall have a current executed License Agreement for Automated Defect Recognition (ADR) Software, issued by NASSCO, for application of NASSCO intellectual property (PACP, LACP, and/or MACP) to Automated Defect Recognition ("ADR License").

Vendor shall be able, as requested, to provide reports on the accuracy of AI models used. Accuracy shall be measured on two initial metrics 1) Recall (True/False Negatives) and 2) Precision (True/False Positives). A recommended rating system for Automatic Defect Recognition (ADR) can be found here for reference. (<https://docsend.com/view/jy8atdvnpeqqfzs6>)

Vendor shall be subject to a Validation Test of Accuracy to be performed at the MMSD's discretion ("Validation Test") using the following Validation Test Procedure:

- MMSD may have the option to submit up to 5 sewer inspection videos to the ADR Software Vendor for application of ADR computer vision analysis.
- The Vendor shall provide the MMSD with the following:
 - Outputs (in JSON format)
 - Access to videos with on-screen overlay of all AI predictions
 - NASSCO PACP submittals and deliverables, post review of AI output.

Vendor's ADR Software shall be cloud-based, to enable cloud computing and leveraging of multiple servers and computations simultaneously during ADR inferences, and capable of being continuously updated with supplemental training and reference data. Edge-based or on-premises ADR Software shall not be acceptable due to requirements for compute resources (GPU) and to ensure ease and frequency of updates to AI models, as updated training data is constantly available.

Vendor's ADR Software and web-based inspection management platform shall be optimized for use inside of both of the most commonly utilized desktop internet browsers, Google Chrome and Microsoft Edge ("web browsers"). To utilize all capabilities of the Vendor's ADR Software tools or web-based inspection management platform, no additional software shall need to be installed on the user's desktop other than the web browser.

Vendor's ADR Software shall have the ability to analyze at a minimum speed, no less than 25,000 LF of sewer inspection data per hour.

Vendor's ADR Software shall have the ability to run inferences on multiple sewer inspection datasets concurrently.

Vendor's ADR Software shall enable increased speed of inferences to accommodate for multiple deployments of ADR, and on multiple sewer inspections simultaneously, such that the processing speed is not less than 25,000 LF of inspection data per hour.

Training data:

- Vendor's ADR Software shall be trained using a minimum of 10,000,000 reference images.
- Reference images shall adequately represent the full complexity of the sewer system owned by the utility using the ADR Software, providing for enough training data to provide inferences on pipes of similar size, category, shape, geometry, host material, and/or liner material.

- Vendor's ADR software shall have the ability to rapidly train or retrain and deploy new AI models on a routine basis, using images and videos provided, in a timeframe not to exceed a two hour period from start to finish.
- Training data available shall not be limited to the data provided by the customer

All inspections, videos, and AI outputs produced by the Vendor's ADR Software shall be reviewed by a NASSCO PACP technician holding current Certification prior to being submitted to the MMSD. A copy of the technician's NASSCO certification(s) including expiration date shall be submitted as part of the submittals prior to the start of work.

As needed, Vendor shall inform the MMSD and submit updated copies of NASSCO certification(s) for any additional staff during the execution of the project.

Vendor's NASSCO PACP technicians reviewing AI outputs and predictions shall input their PACP certification credentials in the PACP Inspection Form Header Fields 3 and 4 ("Reviewed By") for each survey.

If requested by MMSD, and as needed for verification or quality assurance, Vendor shall provide complete log records of all actions (selections, clicks, and data entries) taken by all users of the Vendor's web-based inspection management platform.

Vendor shall commit to a turnaround time for NASSCO PACP deliverables not to exceed 10 working days from ingestion of newly collected inspection data to Vendor's web-based inspection management platform.

Vendor's professional condition assessment services shall not be limited based on pipe size, category, shape, geometry, host material, and/or liner material, distinct from whether Vendor's ADR capabilities include or do not include training data depicting certain pipe characteristics.

Vendor ADR Software and output review capabilities shall be able to analyze data captured by the following types of camera hardware systems: pan tilt zoom CCTV (analog), lateral launch, fixed view push camera, jetter nozzle camera, UAV/drone, and Digital Side Scan (DSS). Vendor ADR Software shall provide no limitation as to the number of individual trucks/units or cameras that may act as sources of inspection data.

Vendor ADR Software shall have the ability, utilizing Optical Character Recognition (OCR) tools, to extract pipe distance data shown on screen during the inspection, to accommodate analysis of archival inspections that may not include meta data logs of camera cable payout.

Vendor ADR Software shall have the ability to identify obscured and/or blurry frames in inspection data, to enable Quality Control of field data collected.

Vendor ADR Software shall, following AI inferences, display each prediction generated by each AI model used as an overlaid "bounding box" in the video, depicting the following:

- Region of the image where pipe condition was predicted, bounded by a rectangle or square.
- The condition annotation correlated to the AI model which made each prediction.
- A confidence score for each prediction displayed as a fraction of 1, to the nearest hundredth.
- Adjustment of confidence thresholds for predictions logged to enable increasing or decreasing sensitivity of the AI tools.

Vendor Experience - AI Vendor shall demonstrate experience in providing pipe condition assessment deliverables on a minimum of 1,500 miles of sewer pipe involving projects of a similar scope of work.

C.19 Cloud-Based Data Management Platform Standards and Guidelines

Cloud platform: Vendor shall provide and maintain a Cloud-based platform for the uploading, storage, streaming and on-demand retrieval of sewer inspection data and videos. "Cloud" signifies that no direct installation of hardware or software is required, access licenses are not bound to specific media or peripherals, data is stored in an off-premise, decentralized fashion, and is accessible independent of a computer or device ID.

Browser-based: the inspection cloud platform is accessible via Web browser, working with the latest version of Google Chrome as well as Microsoft Edge. The platform must be licensed as software only, not using hard locks or hardware-dependent devices for licensing.

Login: the platform shall require email and password authentication for users, and shall enforce email verification and complex passwords. The platform shall also enable single-sign-on (SSO) with Google accounts, as well as Multi-Factor Authentication (MFA). See Section 5 - System Security and Reliability.

Database upload: Inspection management platform enables authorized users to directly upload NASSCO "Exchange" .MDB files (Access format) in version 7.0 or version 6.0 and have the data immediately imported into the platform.

NASSCO certified: platform shall maintain in good standing certification for import of NASSCO v7.0 or greater datasets.

Video upload: Inspection management platform enables authorized users to upload and import directly to the web browser sewer inspection videos, including at least but not limited to the following file extensions: mpeg; mpg; qt; avi; wmv; webm; asf; vob; mp2; mp3; mp4; ipf; gnet. Videos will be encoded and made available for streaming viewing in the browser.

Parallel uploads and recovery: Platform shall enable users to upload at least 10 databases and 100 videos simultaneously. Platform shall indicate progress of all uploads. In the case of device shutdown, intermittent internet connectivity, or other issues, the platform shall automatically retry and resume data uploads when a logged-in user returns to connectivity or refreshes the browser.

Unlimited storage: Inspection platform shall provide no limitation -- outside of contractual agreements -- regarding the total bytes or linear footage of inspection data uploaded.

Initiating AI deep learning computer vision: cloud platform shall enable users with appropriate permissions to initiate AI computer vision review of selected inspections from the platform itself, without any need to contact customer support. Customers shall be able to initiate AI computer vision on one or many inspections, in batches. There shall be no limitation on the number of videos undergoing computer vision at any time, presuming appropriate contractual service levels.

Video playback: Inspection videos can be viewed at normal playback speeds, and variable playback speeds ranging from 0.33x to 6x, can be advanced or reversed by a single frame or a single second.

Digital Side Scan (DSS) Data: platform shall have the ability to ingest, encode and playback in browser DSS inspection data. Platform will include functionality to virtually pan, tilt and zoom when reviewing such data.

Link sharing: Inspection platform shall enable users to generate, copy and share a direct link to a specified timestamp in a single video.

Inspection review experience: inspection platform shall provide flexibility as to the workspace and contents visible when reviewing an inspection. Individual users shall be able to configure which elements are visible in their workspace by selecting from a series of tools. Individual tool windows shall be able to be resized, expanded to full-screen, and hidden from view.

Data retention: Inspection platform shall provide for indefinite retention of inspection data and videos. Customers will be able to access streaming videos as long as they remain a paying customer in good standing. See sections 4.25-4.6 below regarding "Downloads" and "Data Extraction". Customers may download inspection data and videos from the platform at any time.

Frequency of uploads: Inspection platform shall provide no limitation regarding the frequency or concurrency of uploads to the platform by authorized users, and shall be able to accommodate at least a presumptive 150 monthly upload batches (i.e. 5x a day, every day of the month).

Dashboard summary: Inspection platform shall provide a clear, intuitive summary dashboard of customer data currently held in the platform. Such a summary dashboard shall include statistics on the number and linear footage of data held, number of inspections for which AI Computer Vision has been utilized, and any outstanding NASSCO validation errors. Inspection dashboard shall be configurable to enable organizing and sorting by any NASSCO header field.

Filters and queries: Inspection platform shall enable users to conduct multi-faceted queries to locate inspections within a dataset. Available query parameters shall include: City, Street, Date, Material, Height (Size), Maintenance Holes, Pipe (or Lateral) Segment, and video file name. In addition, users shall be able to query for inspections containing specific NASSCO condition codes, Structural and O&M Grade $\frac{4}{5}$ defects, and particular Pipe ratings. Once filter parameters are applied, a copyable URL shall be generated that enables a user to bookmark or share the specified query. The inspection platform shall provide a way for users to save these queries.

Adding condition observations: Inspection platform shall enable users with appropriate permissions to add and revise observations to videos. Such observations shall be in keeping with NASSCO v 7.0 standards, and as such shall include Time, Distance, Joint, Value %, Dimensions, and Clock positions. Codes shall be constrained to NASSCO condition codes. Codes will be color-indicated in keeping with NASSCO PACP Version 7 Appendix B ("Color Coded Chart").

Validation using NASSCO standards: Any NASSCO-related validation errors with respect to Header fields or Conditions, that would render a database invalid under NASSCO standards, shall be displayed immediately to the user with a descriptive tooltip indicating the specific nature of the issues to be corrected (such as “MWL Water Level missing required percentage”).

Video status: platform will provide transparent visibility into the status of an uploaded inspection, including: whether the video file has been received; whether artificial intelligence computer vision inference has been initiated, whether artificial intelligence computer vision inference is complete, and whether a customer representative has formally reviewed an inspection.

QA QC: Platform will provide clear visual indication when an inspection has passed review by the Vendor’s NASSCO-certified technicians (see Section 3.1 for details of this process). Platform will also enable the customer to explicitly indicate that an inspection has undergone additional review by customer personnel, constituting a final review.

Maps: inspection management platform shall have the ability to store geospatial information related to assets and inspections, and visualize inspection data on an interactive map. Platform users shall have the ability to upload geospatial information as Shapefiles, GeoJSON or XML, as well as provide access to ArcGIS Online repositories. Upon provision of appropriate geospatial data, the platform will have the ability to render assets on a map, including indicators of which assets have inspection data present in the platform, and the status of those inspections with respect to condition assessment. Map functionality will include the ability to apply advanced filters (see “Filters and queries”) including querying for inspections by completion data, pipe material and size, pipe ratings, condition grades, and individual defects. Maps shall provide a direct link to the streaming video for any selected inspection. Maps shall also include the ability to visualize the approximate location of individual conditions along a pipe based on distance from the inspection access or start point.

Permission levels: as detailed in “Authentication,” platform shall provide role-based authentication that controls access to data and site functionality. Administrative users shall have the ability to access and edit all data, upload and download data, and administer the account, including adding additional users. Edit users shall have the ability to access and edit all data and upload and download data. View users shall only have the ability to view data, but not manipulate it.

Unlimited View-Mode access: platform shall provide for View-Mode login credentials, and the ability for Account Administrators to add View-Mode users/credentials to the platform, and ongoingly assign or limit access to specific projects datasets.

View-Mode User Capabilities: all View-Mode users shall have the ability to review all NASSCO inspection data within approved datasets in the platform. This includes: PACP conditions/observations, Survey Header data, video playback and playback speed ranging from 0.33x to 6x, generate shareable URL for each video timestamp via single button action.

Download: inspection platform shall provide straightforward functionality for authorized users to extract data. This means that for a selected set of inspections, users will be able to extract from the browser: (a) a NASSCO Exchange MDB. Platform will validate against NASSCO v7.0 or v 6.0 standard where requested to ensure no invalid data is downloaded. (b) Snapshots - still images (c) PDF inspection reports, that conform to NASSCO standards including Header data, tabular condition data, snapshots and pipe plot diagrams (d) Video files. Users shall be able to save downloaded files to a location of their choice on local storage.

Video annotations: platform shall provide the ability to add on-screen text annotations and/or voice audio annotations to downloaded videos. This means that prefatory header information as well as condition information shall be overlaid on the video in an easily-readable format. In the case of voice annotations, there will be an audio readout of all key information, and the video shall pause at individual observations to enable voiceover narration.

File naming conventions: account-holders shall be able to specify a default file naming convention as well as a unique convention for any project. This means a customized format for the individual file names - database, snapshots, PDF reports and videos - as well as a format for how the parent folders themselves are named. Users will have the ability to download all similar media (e.g. all Videos) to one folder, or create a folder for each inspection. Naming options will include the ability to draw from any inspection Header field as well as utilize additional text.

Notifications: inspection platform shall provide for browser and email notifications when key processes are initiated or complete, such as files being fully uploaded, AI deep learning computer vision being complete, and files being ready for download. Users shall be able to enable or mute notifications.

Software updates: Updates, patches and improvements to the inspection management software shall be made available immediately upon release and at no additional cost to the customer as long as customer's account is in good standing.

Browser and Desktop versions: Software shall include a browser-based application that functions in the latest version of the Google Chrome and Microsoft Edge browsers. Additionally, Vendor shall make available a Progressive Web Application or Desktop application version at customer request.

Review Tasks: View-Mode Users shall have the capability to create annotations, comments, and/or ask questions ("notes") within each survey, and for such notes to be independent of NASSCO conditions and fields, and to link the comment to specific Observations in the survey, linking video playback timestamp, and also refer to and notify any other Users with access to that dataset, with the notified User receiving an email message including a link to access the survey. Review Tasks must also provide for the ability to be listed as "resolved/pass" or "unresolved/fail".

Data Visualization

- Inspection management platform shall display all NASSCO data with a color-coded scheme indicating severity of Pipe Rating Index condition scores, with surveys registering a score of 0.00-1.99 being a distinct color, 2.00-2.99, being a distinct color, 3.00-3.99 being a distinct color, and 4.00-4.49 being a distinct color, and 4.50-5.00 being a distinct color.
- Inspection management platform shall display all NASSCO data with separate pie charts indicating pipe heights and materials, and graphs indicating inspection Statuses, O&M Pipe Rating Index, Structural Pipe Rating Index, Overall Pipe Rating Index, and Surveys containing O&M and/or Structural Condition Grades of 4 or 5.

Customer support: platform shall provide for a digital help center, tutorials and live customer support.

Help center: Platform shall provide an archive of help center articles and where appropriate, video or image-based walkthroughs of platform functionality

Live chat: Cloud platform shall have a live-chat feature that enables active users to initiate contact with customer service during United States business hours, i.e. 8:30am to 5:30pm Monday through Friday in all U.S time zones

Response times: Cloud platform provider shall provide initial response times of less than 30 minutes during the business hours specified in Section 4.31.2; outside those hours Vendor shall provide a response in less than 24 hours

C.20 305 System Security and Reliability

C.20.1 Enhanced authentication

Segregation of each account's data - no commingling: All account data is restricted using role-based access controls. Users can only access the data in their account.

Passwords: Implementation ensures that strong Passwords are used for login and can be protected by SSO. Password strength requires passwords of at least 12 characters and with a combination of uppercase, lowercase, numbers and special characters.

All account data is restricted using role-based access controls which ensures that users can only see the data they have been authorized to.

Logs: all User activity within the platform is recorded and stored to keep an audit of user logins and activity inside the platform.

Access without device (hard lock): USB / thumb drive is not required for software access, and the requirement for a physical device or specific machine ID/activation code shall not be acceptable.

C.20.2 Data encryption / Data Protection

Data is always stored and transmitted using end-to-end encryption

Data shall be managed in accordance with a written Information Security policy, as described below

Cloud computing provider: the inspection platform shall be built on an industry-leading cloud platform, limited to Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform (GCP). Cloud provider shall maintain a current ISO:27001 certification with respect to information security

Data classification and encryption: inspection platform Vendor shall maintain a Data Classification policy that enumerates definitions and handling of confidential and restricted information. Restricted information

- which includes all customer database information and details regarding sewer system assets - will be encrypted whenever transmitted over a network.

Access to Sensitive Data: platform Vendor shall implement administrative and technical measures to limit access to data to only those individuals whose job requires such access. Access limitations include defining access needs for each role, restricting access to the least privileges necessary to perform job responsibilities; and requiring documented approval by authorized parties specifying required privileges.

Rights to Extract Data / Portability: at any time, the customer shall be able to request a full download of their data and media. As described above, the inspection management platform shall enable self-service downloads of databases and videos.

Architecture: at customer's request, Vendor shall provide a schematic diagram of system and information architecture specifying 3rd party Vendors and data locations

Backups: Backups of all data are taken nightly and stored for 7 days. SewerAI staff have remote access to manage the service over secured connections.

Different users must be able to use the same data in the system simultaneously.

C.20.3 Network Controls

All infrastructure is behind Firewalls, Security Groups, and Virtual Private Clouds (VPCs).

Platform has denial of service protection.

Platform is network accessible from mobile devices, laptops and workstations.

Network logs are collected and stored for security audits.

C.20.4 Governance and Incident Management

A Cloud API is available for clients to access their data.

All requests are logged to a central data storage.

Critical infrastructure is monitored and alerted to ensure uptime.

Incident management: Vendor shall develop, maintain and provide a security response plan

C.20.5 Scalability & Reliability

Sufficient redundant capacity to ensure services are not impacted in multi-tenancy environments during peak usage.

Server durability shall be 99.9% of objects over a given year.

Global storage of media: Vendor shall utilize a reliable, distributed content delivery network (CDN) for distributed access to media content.

In the event of a catastrophic event, the Vendor shall be able to replicate the data and site within 5 business days.

C.20.6 Policies and Procedures

Background screening is performed prior to allowing constituents access to systems and data.

New hires are required to sign agreements, including but not limited to an NDA, upon hire.

Privacy Policy: Vendor shall maintain and publish a Privacy Policy that is publicly available to any users of the Cloud platform and whose acceptance is required prior to use.

InfoSec / Cybersecurity: Vendor shall develop, maintain, provide upon request, and adhere to a written Information Security / Cybersecurity policy.

Data Breach: Vendor shall develop, maintain, provide upon request and have procedural plans to implement a data breach response policy.

Disaster recovery: Vendor shall develop, maintain, provide upon request, and have plans to implement a disaster recovery plan and procedures

Data Classification and Destruction: Vendor shall develop, maintain, provide upon request, and adhere to a data classification and destruction policy

Insurance: Vendor shall maintain cyber risk insurance for a data privacy and/or security breach.

If the system handles Credit Card data, it must be PCI compliant.

C.21 Digital Submittal

All project submittals shall be conducted via sharing and receiving of Digital Submittals, in the form of a URL provided to a recipient (Acceptor) and sent by a User of the Cloud-Based Data Management Platform described and specified in Section 4 (Sender). The Digital Submittal URL contains a link to a secure dataset of finished inspections consisting of a single project, and with all the capabilities described and specified as in Section 304 Cloud-Based Data Management Platform.

An individual receiving a Digital Submittal (Acceptor), upon receiving an email notification, shall be able to access the dataset for review, feedback or comments (see 4.29 Review Tasks), or approval of the submittal.

Upon approval of a Digital Submittal, the dataset will be:

- Duplicated and stored in the cloud-based Inspection Data Management platform as per the Acceptor's preferences or naming convention.
- Acceptor shall be able to add an unlimited number of View-Mode Users to consume the data and/or engage in Review Tasks.
- Acceptor shall be able to download (export) the dataset as per Specification Downloads in the following formats:
 - NASSCO PMLACP Microsoft Access Database (version 6 or version 7)
 - Snapshots of still images
 - PDF Reports
 - Videos with final conditions annotated on-screen and a computer-generated audio narration

D Measurement

The department will measure Televiser Sanitary Interceptor as the linear foot televised and included in the report approved by the utility Owner.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.306	Televiser Sanitary Interceptor	LF

Payment is full compensation for providing required materials, labor, cleaning, televising, and the associated report for the televising of the sanitary interceptor installed.

129. Remove Existing Sanitary Main, Item SPV.0090.401.

A Description

This special provision describes providing the removal of portions of the existing 18-inch ductile iron sanitary sewer main and associated pile caps and pile supports where indicated on the contract documents to allow sheet pile installation and retaining wall construction.

C Construction

C.1 Sewage Bypassing

Prior to removing any existing sanitary sewer, bypass sewage flows to the section of sanitary sewer main being removed by inserting temporary plugs in upstream manholes or sewers and pumping or hauling sewerage to downstream manholes or locations as approved by the Madison Metropolitan Sewerage District (MMSD).

C.2 Sanitary Sewer Cleaning and Televising

Jet and clean each section of sanitary main to be removed to remove sewage, grease, solids, and other contaminated materials from the pipe. Televiser each section to verify cleaning is satisfactory.

After cleaning, sewage shall be prevented from discharge into the abandoned section of sewer. Reclean and televiser any pipe section, if sewage is reintroduced prior to pipe removal.

C.3 Trenching and Excavation

Excavate to depth of existing sewer per the requirements of standard spec 608.3.1.

C.4 Dewatering

If dewatering is necessary to remove sewer, obtain all necessary permits from Wisconsin Department of Natural Resources prior to the start of dewatering activities. Perform dewatering practices in accordance with Wisconsin Department of Natural Resources Technical Standard 1061, *Dewatering Practices for Sediment Control* and any applicable permits. Maintain dewatering operation until all construction activities, including backfilling activities, are complete.

C.5 Remove Sewer

Remove existing ductile iron sanitary sewer main, pile caps, and pile supports as required to allow construction of the department's proposed sheet pile and retaining wall.

C.6 Backfilling

Backfill trenches in accordance with standard spec 608.3.5.

D Measurement

The department will measure Remove Existing Sanitary Main by the linear foot acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.401	Remove Existing Sanitary Main	LF

Payment is full compensation for sewer cleaning and televising, excavating, shoring, dewatering, pipe removal and removal of associated pipe supporting structures, backfilling, compaction, disposal of excess material, and incidentals.

130. **Ductile Iron Sanitary Sewer 18-Inch, Item SPV.0090.402; Ductile Iron Sanitary Sewer 18-Inch with Ball and Socket Joints, Item SPV.0090.403.**

A Description

This special provision describes excavating required trenches, placing bedding and cover materials, laying therein the sewer pipe of the size and type specified, all sheeting and shoring, backfilling and compacting the trenches, testing, and restoring the work site as shown on the contract documents in accordance with the requirements as hereinafter provided.

B Materials

B.1 Submittals

Submit product information for all proposed materials to Dunn Sanitary District #3 for review a minimum of fourteen days prior to onsite delivery and installation.

B.2 Ductile Iron Pipe (Push-On-Joints)

Furnish ductile iron pipe conforming to ASTM A746, pressure class 250. Pipe shall be provided with nominal laying lengths of 18-feet. Typical pipe sections shall include a bell at one end and a plain end at the other. Watertight joints shall be provided by inserting a rubber gasket in the manufactured recess in the bell end of the pipe. Gasket shall be Tyton style joint or approved equal.

B.3 Ductile Iron Pipe (Ball and Socket Joints)

Furnish ductile iron pipe conforming to ASTM A746, thickness class 58, pressure class 350. When full of air, pipe shall be designed to sink in water. Pipe shall be provided with **exact** laying lengths of 18-feet so that the pipes can be laid on installed pile supports, where required. Typical pipe sections shall include a bell, ball, and retainer assembly. Pipe and joints shall be specifically designed for subaqueous water crossings. Joints shall be watertight, restrained, and offer deflection up to 15 degrees.

B.4 Linings

Furnish all ductile iron pipes with an interior single cement-mortar lining conforming to ANSI/AWWA C104/A21.4

B.5 Coatings

Furnish all ductile iron pipes with an exterior coating of asphaltic material conforming to ANSI/AWWA C151/A21.51

B.6 Polyethylene Encasement

Furnish all ductile iron pipes with polyethylene encasement conforming to ANSI/AWWA C105/A21.5.

B.7 Pipe Bedding Materials

Furnish a 3/4" crushed stone conforming to ASTM C12-09 Class B. No native soils may be used as bedding materials.

The loss due to sulfate soundness testing shall not exceed 10%. The loss due to abrasion testing shall not exceed 40%

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1-inch (25.4 mm)	100
3/4-inch (19.05 mm)	90 – 100
3/8-inch (9.5 mm)	20 - 55
No. 4 (4.75 mm)	0 - 10

Pipe bedding is not required where the sanitary sewer is supported on the Pipe Pile Supports.

B.8 Pipe Bedding Foundation

If in-situ subgrade soils at the bottom of trenches are unstable, as determined by Engineer, over excavation will be required and suitable foundation material shall be provided as indicated in the contract documents. Foundation material shall be 3-inch crushed clear stone with minimal fines or approved equal.

Pipe bedding foundation is not required where the sanitary sewer is supported on the Pipe Pile Supports.

B.9 Non-Woven Geotextile Fabric

Non-woven geotextile fabric shall be wrapped around pipe bedding and pipe bedding foundation materials to prevent migration of fines. Preapproved products include Mirafi 160N or approved equal.

B.10 Backfill Material

Debris, frozen material, large clods or stones, organic matter, or other unstable materials may not be used for backfill within 2 feet of the top of the pipe.

C Construction

C.1 Trenching and Excavation

Excavate to depth of proposed sewer per the requirements of standard spec 608.3.1.

C.2 Dewatering

If dewatering is necessary to install sewer, obtain all necessary permits from Wisconsin Department of Natural Resources prior to the start of dewatering activities. Perform dewatering practices in accordance with Wisconsin Department of Natural Resources Technical Standard 1061, *Dewatering Practices for Sediment Control* and any applicable permits. Maintain dewatering operation until all construction activities, including backfilling activities, are complete.

C.3 Pipe Laying

Lay pipe in accordance with 608.3.3.

Grade and alignment shall be established with laser equipment. Sewers shall be laid with straight alignment between manholes. Slope between manholes shall be uniform with no ponding water.

C.4 Record Keeping

Sanitary sewer terminus shall be clearly marked by the contractor with a 2"x4" stake painted green when not immediately connected to an existing sanitary manhole or existing sanitary service.

Keep track of length of sanitary sewer service pipe installed from the main line to terminus or connection to existing service.

C.5 Backfilling

Backfill trenches in accordance with standard spec 608.3.5.

C.6 Field Quality Control

Hydrostatically test all sections of new ductile iron sanitary sewer main in accordance Wisconsin Administrative Code NR 110.13(2)(k)1. Test shall be completed minimum positive head of 2 feet above the top of pipe at the highest elevation of the test section or 2 feet above the groundwater level, whichever is greater. Pipelines intended for buried service should be tested with backfill in place. At a minimum, the test shall be completed with sufficient backfill material in-place over the pipe barrel and between joints to prevent pipe movement. Pipeline shall be filled slowly and care shall be taken to vent all high points and expel all air. After test section has been brought up to test pressure, it should be held for two hours and the make-up water measured with a displacement meter or by pumping the water from a vessel of known volume. Leakage may not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the system. Provide uncontaminated source water for the purposes of hydrostatic testing at contractor's expense. Dispose of test water per requirements of Madison Metropolitan Sewerage District (MMSD).

After installation and hydrostatic testing, visually inspect the inside of sewers with via Closed-Circuit Television (CCTV) camera. For television inspection, provide televising equipment and personnel, sewer cleaning equipment and personnel, safety equipment and personnel, repair any damaged property resulting from the work and provide by-pass pumping if necessary to complete work. Televising all sanitary sewer lines. Televising and video shall be in color. Clean all sewer lines prior to televising. Move camera through sewer line at a rate no greater than 30 feet per minute. Video record entire televising sequence. Stop camera for a minimum of 5 seconds at all joints, lateral connections, leaks, obstructions and defects.

Recordings of these activities shall include an audio description of what is being encountered.

The camera's location (in feet) shall be subtitled on the TV monitor and video recording.

Provide the Dunn Sanitary District #3 a written report (two copies) which identifies the location of sewers televised and the location of all joints, lateral connections, leaks, obstructions and defects. These reports shall correspond with the video recordings. Provide Dunn Sanitary District #3 with one copy of the video recordings.

Televising all sewer services which have been partially or totally directionally bored. The camera shall travel in the direction of the flow of the pipeline while water is being introduced to establish if the line is pitched in the correct direction. In the event that there is absence of pitch or dips in the line, the service shall be replaced.

Repair all visible leaks, defects and pipeline which failed testing. After repairs are made, retest and re-televising repaired sections.

D Measurement

The department will measure length of installed sanitary sewer on straight horizontal line along centerline of the pipeline by the linear foot acceptably completed. Measurement shall be from manhole to manhole and/or manhole to connection to existing sanitary sewer. Measurement shall exclude distances inside manholes.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.402	Ductile Iron Sanitary Sewer 18-Inch	LF
SPV.0090.403	Ductile Iron Sanitary Sewer 18-Inch With Ball and Socket Joints	LF

Payment is full compensation for furnishing all materials necessary to perform the work; trenching; excavating; dewatering; laying the pipe and installing the fittings and accessories; jointing and sealing of joints in pipe, fittings and accessories; backfilling; compaction; disposal of excess materials, cleaning out the sewer; testing; televising; and all other work incidental to the installation of sanitary sewer.

131. Sanitary Sewer Force Main, 10-Inch (C900 PVC), Item SPV.0090.501.

A Description

This special provision describes excavating required trenches, placing bedding and cover materials, laying therein the sewer pipe of the size and type specified, all sheeting and shoring, backfilling and compacting the trenches, testing, and restoring the work site as shown on the drawings in accordance with the requirements of the Standard Specifications for Sewer and Water Construction in Wisconsin and as hereinafter provided.

B Materials

B.1 Pipe

Force main pipe shall be PVC piping, pressure class 235 psi, DR 18, meeting the requirements of AWWA C900 or AWWA C905.

Markings on the pipe shall include the following: Nominal pipe size, type of plastic pipe material, DR number, AWWA designation with which the pipe complies, and manufacturer's name.

Fittings on PVC pipe shall be ductile iron mechanical joint conforming to requirements specified for ductile iron fittings with appropriate transition fittings and gaskets.

Push-on joints for PVC piping shall be restrained as specified with MEGALUG® Series 1500 (AWWA C900) by EBAA Iron Sales, Inc., Uni-Flange® Series 1350 by Ford Meter Box Co., Inc., or equal. PVC piping with ductile iron mechanical joint fittings shall be restrained with MEGALUG® Series 2000 PV by EBAA Iron Sales Inc., Uni-Flange® Series 1500 by Ford Meter Box Co., Inc., or equal.

B.2 Tracer Wire

Provide minimum 10-gauge solid insulated copper tracer wire with buried thermoplastic pressurized pipe. Wire shall be continuous, terminate, and be accessible at valve boxes, manholes, fire hydrants, or at test stations as specified below. Tracer wire shall be located 12 inches above the top of the pipe. Any splices in copper wire shall be made with a 3MTM DBR/Y-6 splice kit, or equal.

Tracer wire test stations shall be SnakePit magnetized tracer boxes by Copperhead Industries, or equal. Tracer box shall be corrosion-resistant brass wire lugs and wax pad to cover wire connection. Cover shall be color-coded according to APWA standards for fluid conveyed. Provide SnakePit Lite Duty Box in unpaved areas and Roadway Box in paved areas. Provide Rhino Triview Marker Posts, or equal, at all test stations. Provide custom decals to identify fluid in piping. The tracer wire shall be accessible at a minimum of every 500 feet along the pipeline and at horizontal bends in piping. The tracer wire shall run into and up the sides of all manholes and be secured near the casting.

Perform continuity testing of all tracer wire in the presence of Kegonsa Sanitary District.

B.3 Trench Bedding Material

Bedding material shall be hard and durable and shall be made by crushing sound limestone or dolomite ledge rock, or crushed gravel aggregate. Bedding material shall conform to the requirements of ASTM C33 and shall conform to gradations shown in the following table. No native soil shall be used for bedding material.

PERCENTAGE BY WEIGHT PASSING INDICATED SIEVE

Size	2 1/2 IN	2 IN	1 1/2 IN	1 IN	3/4 IN	1/2 IN	3/8 IN	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
57			100	95-100		25-60		0-10	0-5				
67				100	90-100		20-50	0-10	0-5				
8						100	85-100	10-30	0-10	0-5			
9							100	85-100	10-40	0-10	0-5		
10							100	85-100				10-30	

PVC force main shall be bedded and covered in accordance with the Thermoplastic Pipe Bedding Detail in accordance with the Type 4 laying condition of AWWA C605.

HDPE force main shall be bedded and covered in accordance with the Thermoplastic Pipe Bedding Detail or in accordance with ASTM D2774. Bedding material shall conform to Size No. 8 or No. 9. No native materials may be used.

B.4 Trench Cover Material

Material which is to be placed from the bedding material to 1 foot above the top of the pipe shall be termed cover material. All trenches shall be backfilled by hand to 1 foot above the top of the pipe with cover material. Cover material shall be deposited in the trench for its full width on each side of the pipe, fittings and appurtenances simultaneously in 6-inch layers and shall be compacted using hand tamping bars and/or mechanical tampers. Use special care in placing cover material to avoid injury to or movement of the pipe. Cover material shall consist of durable granular particles ranging in size from fine to a maximum size of 3/4 inch. Unwashed bank run sand and crushed bank run gravel will be considered generally acceptable cover material. Cover material shall generally conform to the following gradation specifications:

COVER MATERIAL GRADATION

Sieve Size	Percentage by Weight Passing
1 inch	100
3/4 inches	85 to 100
3/8 inches	50 to 80
No. 4	35 to 65
No. 30	--
No. 40	15 to 30
No. 200	5 to 15

Native trench materials may be used for cover material if they substantially conform to the above gradation specifications.

B.5 Trench Backfill Material

Backfill shall be that material placed between the top of cover material up to subgrade for placement of restoration materials

When the type of backfill material is not otherwise specified or shown on the Drawings, contractor may backfill with the excavated material, provided that such material consists of loam clay, sand, or gravel, or other materials which, in the opinion of the Department or Kegonsa Sanitary District, are suitable for backfilling.

All backfill material shall exceed a temperature of 35°F and be free from frost, cinders, ashes, refuse, vegetable or organic matter, boulders, rocks, stone, or frozen lumps, or other material which in the opinion of the Department or Kegonsa Sanitary District is unsuitable. From 1 foot above the top of the pipe to the trench subgrade, well-graded material containing stones up to 8 inches in their greatest dimension may be used, unless otherwise specified. Care should be taken in backfilling so as not to damage the installed pipe.

In refilling the trench, if there is not sufficient material excavated therefrom suitable for refilling, without extra compensation, furnish the deficiency. Where indicated on the Drawings, fill shall be provided over projecting conduits. Such fill shall be free of large boulders, and the top 6 inches shall be of suitable material to fit the adjoining ground.

When called for on the Drawings, in the Specifications, or requested by the Department or Kegonsa Sanitary District, imported backfill material shall be granular and shall consist of durable particles ranging in size from fine to coarse in a substantially uniform combination. Sufficient fine material shall be present to fill all the voids in the coarse material. No stones over 3 inches or clay lumps shall be present. Unless otherwise allowed, granular backfill shall generally conform to the following gradation specification:

Granular Backfill

Sieve Size	Percentage by Weight Passing
3 inches	100
2 inches	95 to 100
No. 4	35 to 60
No. 200	5 to 10

C Construction

C.1 Pipe Installation—General

Utility lines shall be laid and installed to the lines and grades specified with valves, fittings, manholes, and other appurtenances at the specified locations; spigots centered in bells; and all manholes and riser pipes plumb. Force main shall be installed at the depth indicated. Force main, and other pressure mains shall be installed to within (plus or minus) 0.1 feet of designed grades.

Deviations Occasioned by Underground Facilities: Wherever significant obstructions not shown on the Drawings are encountered during the progress of the Work, notify Kegonsa Sanitary District and protect the facilities. Existing items unnecessarily damaged during the performance of the Work shall be repaired and replaced at the expense of contractor.

Prior to commencing pipe laying, notify the Kegonsa Sanitary District of the intended date for starting Work. Kegonsa Sanitary District may request at contractor's expense the removal and relaying of pipe which was installed prior to notification of Kegonsa Sanitary District.

Material Inspection: inspect the pipe, fittings, and appurtenances for defects when delivered to the jobsite and prior to lowering into the trench. Defective material shall be removed from the jobsite. All material shall be clean and free of deleterious substances prior to use in the Work.

Force main shall be installed in accordance with AWWA C600 for iron pipe, AWWA C605 for PVC pipe, and AWWA M55 for HDPE pipe. All plugs, caps, tees, hydrants, bends, and other fittings for water mains and force mains shall be provided with restrained joints in accordance with the following table:

REQUIRED JOINT RESTRAINT DISTANCE FROM FITTINGS (FT)

PVC C-900 Pipe						
Bends, Valves, Dead Ends, and Hydrant Leads	4-IN	6-IN	8-IN	10-IN	12-IN	16-IN
Horizontal 90-Degree Bend (restrain both sides)	14	19	25	30	36	46
Horizontal 45-Degree Bend (restrain both sides)	6	8	11	13	15	19
Horizontal 22 1/2-Degree Bend (restrain both sides)	5	5	5	6	8	10
Horizontal 11 1/4-Degree Bend (restrain both sides)	5	5	5	5	5	5
*Vertical 45-Degree Bend (upper and lower bend distance)	22	31	41	49	58	75
*Vertical 22 1/2-Degree Bend (upper and lower bend distance)	11	15	20	24	28	36
*Vertical 11 1/4-Degree Bend (upper and lower bend distance)	6	10	10	12	14	18
Valve or Dead End	53	74	97	117	139	179
Fire Hydrant Leads	Restrain All Joints					

Any pipe or fittings cracked in cutting or handling or otherwise not free from defects shall not be used. Pipe must be kept clean of mortar, cement, clay, sand, or other material. When PVC piping is installed during hot weather, it shall be laid in the trench with slack or permitted to cool to ground temperature before it is cut to length for making final connections. PVC expansion joints shall be provided where needed.

At times when pipe laying is not in progress, the open ends of pipe shall be closed with plugs to prevent the entry of foreign material. Acceptable plugs include Foreman Nite Caps by APS, mechanical joint cap or plug, bladder plug, or test plug. All foreign material shall be removed from the pipe prior to acceptance.

The locations and elevations of existing piping and manholes are approximate. Where necessary, existing piping shall be exposed by contractor to confirm location and elevation before installing new piping. Any changes in pipe location or elevation shall be approved by Kegonsa Sanitary District.

All pipe shall be laid accurately to the line and grade as designated. Preparatory to making pipe joints, all surfaces of the portions of the pipe to be joined or of the factory made jointing material shall be clean and dry. Lubricants, primers, adhesives, and other joint material shall be used and installed as recommended by the pipe or joint manufacturer's specifications. The jointing materials or factory fabricated joints shall then be placed, fitted, joined, and adjusted in such a workmanlike manner as to obtain the degree of watertightness specified. Specifications from the joint and pipe manufacturer which outline procedures to be followed in making the joint shall be furnished to Kegonsa Sanitary District.

In joining two dissimilar types of pipe, manufactured adapters and fittings shall be used. Adapters and fittings shall be configured to maintain invert elevations at same level.

Joint deflections shall not exceed the limits established by the pipe manufacturer for the pipe and joint being used.

Joints that are damaged because of carelessness, improper handling, or failure to prevent imperfections in manufacture shall be subject to rejection and gaskets shall be subject to rejection whenever they show surface cracking, tears, or splice separation.

At times when pipe laying is not in progress, the open ends of pipe shall be closed with plugs to prevent the entry of foreign material. All foreign material shall be removed from the pipe prior to acceptance.

After placing a length of pipe in the trench, the spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade. The pipe shall be secured in place with specified backfill material tamped around it except at the bells.

Pipe shall be brought home by using a cross member and levers or jacks. It will not be permissible to push pipe home with motor powered excavation equipment.

Prior to all excavating, become thoroughly familiar with the site and site conditions.

C.2 Trench Excavation

Provide all necessary sheeting, shoring, or other soil retention systems including all labor, material, equipment, and tools required, or as necessary to maintain the excavation in a condition to provide safe working conditions, to permit the safe and efficient installation of all items of Contract work, and to protect adjacent property. contractor will be held liable for any damage which may result to property from excavation or construction operations. Shoring, sheeting, and other soil retainage systems shall be withdrawn or removed in a manner so as to prevent subsequent settlement of structures, utilities, and other improvements.

Design of sheet piling and other soil retaining systems shall be the sole responsibility of contractor. Where such systems are shown on the Drawings, no parameters such as embedment depth, section profile, presence or lack of walers, etc., nor system type or suitability shall be inferred. contractor is responsible for designing and providing a fully functional system compatible with construction and site requirements.

Caution In Excavation: Proceed with caution in the excavation and preparation of the trench so that the exact location of underground structures may be determined and shall be held responsible for the repair of such structures when broken or otherwise damaged because of carelessness on its part.

Subsurface Exploration: When determined that it is necessary to explore and excavate to determine the location of existing underground facilities, make explorations and excavations for such purposes.

The trench shall be dug so that the utilities can be laid to the alignment and depth specified. Unless otherwise allowed by ENGINEER, trenches shall not be excavated more than 100 feet in advance of pipe laying. Common excavation shall include all excavation except rock. Included in common excavation shall be removal of street paving of all types, existing structures, existing improvements and trees smaller than 4 inches in diameter measured 4 feet above the ground, all as necessary to complete the pipe installation

The trench shall be finished to the depth necessary to provide a uniform and continuous bearing and support for the pipe on the bedding material provided at every point between bell holes. Any part of the bottom of trench excavated below the specified grade shall be corrected with bedding material,

thoroughly compacted in place. The bedding shall be shaped and finished with hand tools to fit the bottom quadrant to the pipe.

If unstable soil conditions are encountered at subgrade, replace the unstable soil with special bedding. contractor will be allowed extra compensation for the special bedding, unless the unstable soil conditions are caused by contractor's failure to adequately dewater the trench, in which case contractor will bear the entire cost.

All excavated material shall be piled in a manner that will not endanger the Work. Stockpiles not for immediate backfilling shall have silt fences placed around their perimeter for erosion control. The Work shall be conducted in such a manner that pedestrian and motor traffic is not unnecessarily disrupted. Fire hydrants, valve boxes and manholes shall be left unobstructed. Gutters shall be kept clear or other satisfactory provisions made for street drainage, and natural water courses shall not be obstructed.

All trees, shrubs, and improved areas outside the excavation shall be protected from damage.

Pipe shall be placed only on dry foundations.

Excavate whatever materials, are encountered as required to place at the elevations shown, all pipe, manholes, and other work as required to complete the project as shown.

The excavation at the crossing of all underground utility services in place shall be as narrow as practicable. All underground services shall be protected from damage and maintained in service at their original location and grade during the process of the work. Any damage to underground services shall be replaced or repaired at no cost to the Kegonsa Sanitary District or to the owner of the service. The present underground services shown on the Drawings are located in accordance with available data. Encountering these services at a different location or encountering services not shown shall not release contractor from the above-stated conditions.

Any water, drainage, gas, sewer, or electric lines encountered in the excavation that are not to be disturbed shall be properly underpinned and supported. Any service connections encountered that are to be removed shall be cut off at limits of the excavation and capped in accordance within the requirements of or permits governing such removals.

Determine and provide the minimum width necessary to provide a safe trench in accordance with current OSHA standards and all other applicable standards. The top width of trench excavation shall be kept as narrow as is reasonably possible and acceptable to minimize disturbance.

Width of Trench—Thermoplastic and Ductile Iron Pipe: The trench width for flexible pipe shall be minimum three times the pipe outside diameter or the maximum trench width specified for rigid pipe, whichever is greater. A minimum clearance of 8 inches between the outside of the pipe barrel and the trench wall at the pipe spring line shall be maintained to allow for bedding and haunching.

Special bedding shall consist of stone material and filter fabric as described herein. Where the bottom of the trench at subgrade is found to be unstable or of unsuitable material, which should be removed, excavate and remove such unstable or unsuitable material to the trench width and to a depth of 2 feet. The excavated area shall be lined with filter fabric, Mirafi 140 N, US Fabrics US 120NW, Propex Geotex 401, or equal, and backfilled with bedding material in maximum 12-inch layers. At subgrade the filter fabric shall be wrapped over the special bedding with an 18-inch overlap. Bedding material shall then be placed over the special bedding to support the piping. See Dewatering and Excavation to Subgrade sections for additional conditions.

Open-cut trenches shall be sheeted and braced as required by any governing federal regulations including OSHA, state laws, and municipal ordinances; and as may be necessary to protect life, property, improvements or the Work. Underground or aboveground improvements to be left in place shall be protected and, if damaged, shall be repaired or replaced at the expense of contractor.

Sheeting and bracing which is to be left in place must be removed for a distance of 4 feet below the present or proposed final grade of the street, road, or land, whichever is lower. Trench bracing, except that which shall be left in place, may be removed after backfilling has been completed or has been brought up to such an elevation as to permit its safe removal.

Portable Trench Box: Whenever a portable trench box or shield is used, special precautions shall be taken so as not to pull already jointed pipe apart or leave voids around the pipe wall. Whenever possible, the bottom edge of the box shall be kept at a level approximately even with the top of pipe. Cover material shall be placed to at least the top of pipe before moving the box ahead.

C.3 Compacted Fill and Backfill

All fill and backfill, except as otherwise specified, shall be compacted fill placed to within 4 inches of the bottom of the topsoil or to the bottom of the structure or other improvement. All fill and backfill, except embankment fill and clay fill, shall be compacted as follows:

Class 1 Compaction: This class of compaction shall apply to all fill areas under buildings, structures, piping, bituminous roadway and parking areas, curb and gutter, and backfill within 10 feet of structure walls. All compacted material shall be placed in uniform layers not exceeding 8 inches in loose thickness prior to compaction. Each layer shall be uniformly compacted to a dry density at least 95% of the maximum dry density as determined by a laboratory compaction test at the optimum moisture content (ASTM Test Designation D1557). Compaction shall be obtained by compaction equipment appropriate for the conditions.

Class 2 Compaction: This class of compaction shall be used in excavated areas beyond 10 feet of structures without any piping or adjacent foundations. Material for backfill shall be granular material as specified above. The material shall be deposited, spread, and leveled in layers generally not exceeding 12 inches in thickness before compaction. Each layer of the fill shall be compacted to at least 90% of the maximum dry density (testing same as Class 1). Compaction shall be obtained by compaction equipment appropriate for the conditions.

No fill shall be placed under water or over unsuitable subgrade conditions.

No frozen material shall be placed nor shall any material be placed on frozen ground.

C.4 Field Quality Control

Include the cost of all testing in the price bid.

Work shall be tested as specified in this section. Unless indicated in writing before testing begins, tests shall be witnessed by engineer and others as necessary. Test results shall be recorded,

New piping shall be tested. Prior to conducting the pressure and leakage test, backfill the trench for its full depth. All bends and special connections to the main shall be adequately blocked and tied prior to the test. Any damage caused to the main or its appurtenances during performance of these tests shall be corrected by contractor at its expense. Should underground piping fail test, contractor will be responsible for removal and replacement of backfill, and relay new pipe if necessary, to repair the defective pipe. Under no circumstances shall defects be sealed from the interior of the pipe, and only where specifically allowed by engineer, shall defects be sealed from the exterior of the pipe. Piping, interior or exposed, shall be subject to test before being covered with insulation or paint. Piping and appurtenances shall be watertight or airtight and free from visible leaks.

Piping shall be flushed or blown out after installation prior to testing. Provide all necessary piping connections, water, air, test pumping equipment, water meter, bulkheads, valves, pressure gauge and other equipment, materials, and facilities necessary to complete the specified tests. Provide all temporary sectionalizing devices and vents for testing.

Pressure tests shall be performed as required by AWWA C600 and AWWA C605, unless otherwise noted herein.

When test medium for piping is water, all air shall be removed from piping by flushing, opening vents, loosening flanges, utilizing equipment vents and/or installation of corporations at high points in system. Test pumping equipment used shall be centrifugal pumps or other pumping equipment that will not place shock pressures on the main. Power plunger pumps will not be permitted for use on closed pipe systems. Pumps shall be disconnected during test periods. Presence or absence of air will be determined during pressurization of the piping system.

The test pressure in all lines shall be held for two hours, during which time the leakage allowance shall not exceed that specified. In case repairs are required, the pressure test shall be repeated until the pipeline installation conforms to the specified requirements. Pumps, air compressors, instrumentation, and similar equipment shall not be subjected to the pressure tests. All piping conveying a combination of fluids, such as SCM/WAS, shall be tested at the higher test pressure.

During performance of the hydrostatic pressure test, force main shall be subjected to a minimum pressure of 200% of normal operating pressure in the main, with a minimum pressure of 100 psi.

Keep a record of all tests performed. These records shall show the individual lengths of main tested and test results.

Where connections are made to existing mains, it shall be the responsibility of contractor to provide the necessary hydrostatic tests on all new mains installed. This may necessitate, but is not limited to, the installation of temporary valves and restraint to isolate the new system from the existing system. All materials, Work, and equipment necessary for this Work shall be furnished by contractor at its expense.

All testing of pipelines shall proceed concurrently with installation. contractor is encouraged to conduct daily preliminary testing of its Work.

C.5 Cleaning

All equipment and materials shall be clean before installation.

Upon completion of the work, all improvements disturbed by contractor's operations shall be repaired or replaced.

Broken concrete, rubble fill, and other excess material shall be removed from the site and wasted.

All waste disposal areas and all areas used for the storage of materials or the temporary deposit of excavated earth shall be leveled off, cleaned up, and returned to condition that existed prior to construction.

All surplus material, tools, and equipment shall be removed, and the premises shall be left free of everything of the kind.

All pipes and manholes shall be flushed until clean, and all debris and mud shall be removed.

D Measurement

The department will measure Sanitary Sewer Force Main (C900 PVC), 10-Inch in length by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.501	Sanitary Sewer Force Main (C900 PVC), 10-IN	LF

Payment is full compensation for furnishing all materials necessary to perform the work; excavation of the trench, installation and removal of sheeting and bracing; removal of water from the trench; disposal of surplus material from the trench; backfilling the trench and compaction of the backfill material; embankment over the sewer using surplus material from the excavation of the trench bedding the pipe; laying the pipe and installing the fittings and accessories; jointing and sealing of joints in pipe, fittings and accessories; cleaning out the sewer; and all other work incidental to the installation of sanitary sewers.

132. Sanitary Sewer Force Main, 10-Inch (DR11 HDPE), Item SPV.0090.502.

A Description

This special provision describes the horizontal directional drilling of force main as shown on the drawings and as hereinafter provided.

B Materials

HDPE pressure rated pipe shall conform to the requirements of AWWA C906 for pipe from 4 inches through 65 inches. HDPE pipe shall be manufactured from material conforming to PE Code PE4710.

HDPE pipe outside diameter shall conform to ductile iron pipe sizes (DIPS). The type of HDPE material, nominal pipe size, standard dimension ratio, and pressure rating shall be not less than pressure class 200 and not greater than a dimension ratio (DR) 11.

Markings on the pipe shall include the following: Nominal pipe size, type of plastic pipe material, DR number, pressure class rating, manufacturer's name, and the seal or mark of the laboratory making the evaluation of the suitability of the pipe for the transport of potable water.

Fittings for HDPE pipe shall conform to AWWA C906 and shall have the same pressure rating as the pipe in which they are installed.

B.2 Tracer Wire:

Tracer Wire for Trenchless Construction: Tracer wire shall be installed on all trenchless piping. Attach a continuous 7 by 19 strand core, 1/4-inch-diameter vinyl-coated galvanized aircraft cable pulled with the

horizontal directional drilling operation as tracer wire. Tracer wire shall be successfully tested before acceptance.

C Construction

Where shown on the Drawings, horizontal directional drilling shall be provided using HDPE pipe. All horizontal directional drilling work shall comply with WDNr Technical Standard 1072 - Horizontal Directional Drilling. Conduct a HDD Preconstruction Meeting and submit a Written Plan including an HDD Summary, Spill Plan, and IR Plan for approval by Kegonsa Sanitary and WDNr prior to the HDD Preconstruction Meeting.

A certificate of "Compliance with Specification" shall be furnished for all materials to be supplied. Test reports prepared by an independent testing laboratory shall be provided certifying that polyethylene pipe conforms to the requirements of ASTM D3350.

Subject to compliance with the complete requirements of these Standard Specifications, manufacturers offering HDPE pipe products that may be incorporated into the Work include Performance Pipe, Poly Pipe, or equal.

Fusion Welding: Polyethylene pipe shall be joined using the butt fusion welding process. Provide a fused flanged adapter with ductile iron follower flange and a ductile iron flanged pipe for interconnections with ductile iron and/or PVC piping.

contractor may use a drilling fluid which is completely biodegradable. Clay based drilling fluids will also be allowed. Drilling fluid shall be subject to the review of the Kegonsa Sanitary District. Provide clean water for drilling fluid. At no time shall the drilling fluid be discharged to a surface water. This includes drilling fluid that may surface along the directionally drilled pipe route. Provide other drilling fluids or procedures as needed to prevent a discharge of drilling fluids to surface waters at no additional cost.

The boring unit shall have a tracking device that is capable of providing depth and location at all points of the boring path. Record Drawings showing horizontal and vertical locations of the conduit shall be created by contractor based on the tracker information and submitted to the Kegonsa Sanitary District.

Submit detailed information to the Kegonsa Sanitary District of the procedure and the steps to be followed for the installation of the directional drilling method selected.

The installed pipe shall be continuous over the entire directionally drilled length and shall be free from visual defects, such as foreign inclusions, concentrated ridges, discoloration, pitting, varying wall thickness, and other deformities. Pipe with gashes, nicks, abrasions, or any such physical damage that may have occurred during storage and/or handling, which are deeper than 10% of the wall thickness, shall not be used and shall be removed from the construction site. Provide minimum depth of cover at water resource crossings as shown in the Drawings.

Pipe Jointing:

Sections of polyethylene pipe shall be assembled and joined on the jobsite above ground. Pipe ends to be joined shall be cut square, then joined, by the heating and butt fusion method in strict conformance with the manufacturer's printed instructions.

The butt fusion method for pipe jointing shall be carried out in the field by operators with prior experience in fusing polyethylene pipe with similar equipment using proper jigs and tools per standard procedures outlined by the pipe manufacturer. These joints shall have a smooth, uniform, double rolled back bead made while applying the proper melt, pressure, and alignment. It shall be the sole responsibility of contractor to provide an acceptable butt fusion joint. The replacement pipe shall be joined on the site in appropriate working lengths near the insertion pit.

Insertion or Access Pits:

The location and number of insertion or access pits shall be planned by contractor and submitted in writing prior to excavation. The pits shall be located such that their total number shall be minimized and the length of replacement pipe installed in a single pull shall be maximized.

Upon completion of the directional drilling operation by contractor, backfill the excavation, perform clean up and all site restoration, as indicated on the Drawings. All surfaces shall be restored in kind with thicknesses matching those removed.

It is contractor's responsibility to examine the proposed alignment and notify if conditions exist that could cause problems with the directional drilling method. Such conditions could include nearby facilities that could be damaged by the operations or less than acceptable depth of cover.

Trenchless Line and Grade Tolerances: Apply the following maximum deviations for the installed pipeline:

Horizontally: +/- 2.0 feet

Vertically: +/- 1.0 feet. Maintain the minimum depth specified in the drawings and avoid the creation of intermediate high points in the pipeline.

Deviation from Line and Grade Tolerances: If the pipeline does not meet the specified tolerances, correct the installation including any necessary redesign and reinstallation of the pipeline, and acquisition of necessary easements as required. All corrective work shall be performed by contractor at no additional cost.

C.3 Field Quality Control

See Sanitary Sewer Force Main, 10-inch (C900 PVC) Field Quality Control specification section for testing requirements.

C.4 Cleaning

See Sanitary Sewer Force Main, 10-inch (C900 PVC) Cleaning specification section for cleaning requirements.

D Measurement

The department will measure Sanitary Sewer Force Main (DR11 HDPE), 10-Inch in length in the plan view by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.502	Sanitary Sewer Force Main (DR 11 HDPE) 10-IN	LF

Payment is full compensation for furnishing all materials necessary to perform the work; trenchless installation, installation and removal of sheeting and bracing for trenchless pits; removal of water from the pits; disposal of surplus material from the trench; backfilling the pits and compaction of the backfill material; embankment over the sewer using surplus material from the excavation of the trench bedding the pipe; laying the pipe and installing the fittings and accessories; jointing and sealing of joints in pipe, fittings and accessories; cleaning out the sewer; construction of HDPE anchor blocks, and all other work incidental to the installation of force main. No payment will be made for additional HDPE piping required for trenchless installation beyond the connection points to the PVC piping and MMSD vault as shown in plan view.

133. Hardscape – Stone “M”, Item SPV.0165.001.

A Description

This special provision describes the stone masonry “M” within the roundabout center landscape area at the location as shown on the plans and as provided for by these specifications.

B Materials

Furnish stone masonry adhered to concrete base, mortar.

Stone: bluestone flagstone, full color, irregular, 2 inches to 2 ½ inches thick, 18” – 36” face dimension.

Mortar and Grout Materials: Portland Cement: ASTM C150 Type I, ii, or iii may be used for cold-weather construction. Provide natural color.

C Construction

Prior to commencing work, carefully inspect and verify that work is complete to point where installation may properly commence.

Verify that stone may be installed in accordance with original design.

Inspect stone at quarry or fabrication plant for compliance with requirements for appearance, material and fabrication. Replace defective units before shipment.

Clean dirty or stained stone surfaces before setting by thoroughly scrubbing with fiber brushes and then drenching with clear water. Use only mild cleaning compounds that contain no caustic or harsh materials or abrasives.

Set stone masonry – sort stone before it is placed to remove stone that does not comply with requirements relating to aesthetic effects, physical properties, or fabrication, or that is otherwise unsuitable for intended uses. Arrange stones with color and size variations uniformly dispersed for an evenly blended appearance. Arrange stones for good fit in uncoursed flagstone pattern with joint widths withing tolerances indicated. Insert small stones into spaces between larger stones as needed to produce joints as uniform in width as practical.

Arrange stones in McFarland “M”, scale proportions of Village of McFarland branded “M” to dimensions indicated on plans.

Set stone to comply with requirements indicated on drawings. Set stone accurately in locations indicated with edges and faces aligned according to established relationships and indicated tolerances.

Set stone slab paving from lowest to highest elevation.

Remove and replace stone assemblies of the following description:

- Broken, chipped, stained, or otherwise damaged.
- Defective joints.
- Not matching approved samples and mockups.
- Not complying with Village of McFarland Style Guide “M” logo.
- Not complying with other requirements indicated.

Replacement shall match approved work and show no evidence of replacement.

Clean site as work progresses, maintain premises in neat, orderly condition.

Clean stone masonry as work progresses. Remove mortar fins and smears before tooling joints.

Perform final cleaning after mortar is thoroughly set and cured. Clean stone masonry as follows: remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels. Clean stone masonry with proprietary acidic cleaner applied according to manufacturer’s written instructions.

Stack excess stone where directed by Matt Schuenke, Administrator, Village of McFarland.

Dispose of excess masonry waste in a legal manner, recycle whenever possible to limit disposal in landfills.

Provide final protection and maintain conditions to ensure work is without damage or deterioration at time of Substantial Completion.

D Measurement

The department will measure Hardscape – Stone “M” by the square foot successfully completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.001	Hardscape – Stone “M”	SF

Payment is full compensation for furnishing and installing all materials, excavating and backfilling where necessary.

134. Soil Separation Fabric, Item SPV.0165.002.

A Description

This special provision describes furnishing and installing of Soil Separation Fabric at the locations shown on the plans and as hereinafter provided.

B Materials

Filtration/Separation/Geotextile fabric: consisting of a material that allows moisture and air permeability, but prevents the growth of weeds and grasses. The fabric must consist of non-woven polyester, polypropylene, stabilized nylon, polyethylene, or polyvinylidene chloride. All must have the minimum strength values in the weakest principle direction. Do not use a needle punched non-woven geotextile.

Geotextile fabric conforming to the following:

TEST	METHOD	VALUE
Minimum weight	ASTM D3776	0.328 oz/ft ²
Minimum grab tensile strength	ASTM D4632	80 lb.
Minimum apparent breaking elongation	ASTM D4632	46%
Minimum puncture strength	ASTM D4833	35 lb
Minimum trapezoid tear strength	ASTM D4533	27 lb
Maximum apparent opening size	ASTM D4751	No. 40 sieve
Minimum permittivity	ASTM D4491	1.97

C Construction

Install where indicated according to manufacturer's written instruction.

Place geotextile on areas the plan show or the engineer designates before placing the road base. Lay the fabric flat on the smoothed subgrade. Provide a 6-inch overlap at adjoining sheets. Secure fabric with T-shaped steel pin anchors sufficiently long to prevent the fabric from moving.

D Measurement

The department will measure Soil Separation Fabric by the square foot successfully completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.002	Soil Separation Fabric	SF

135. Concrete Sidewalk 5-Inch, Special, Item SPV.0165.003.

A Description

This special provision describes constructing concrete sidewalk 5-Inch, special as detailed in the plan and in accordance to standard spec 602.

B Materials

Furnish materials in accordance to standard spec 602.2.

C Construction

Construct the concrete sidewalk according to standard spec 602.3 and to the dimensions detailed in the plans.

D Measurement

The department will measure Concrete Sidewalk 5-Inch, Special by the square foot successfully completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.003	Concrete Sidewalk 5-Inch, Special	SF

Payment for the concrete sidewalk 5-inch, special, is full compensation for foundation excavation, preparation, and backfill if there is no adjacent roadway excavation taking place; for granular subbase or aggregate base if there is no adjacent roadway subbase or aggregate base being placed; providing concrete and reinforcement, and for restoring the site. Payment also includes providing tie bars and dowel bars in unhardened concrete.

136. Cut-Stone Boulders, Item SPV.0165.004.

A Description

This special provision describes work consisting of furnishing and placing cut-stone boulders in accordance with the requirements of the plans and these specifications.

B Materials

Provide stone for cut-stone boulders of durable quarry dolomitic limestone of approved quality that are sound, hard, dense, resistant to the action of air and water, and free from seams, cracks, or other structural defects.

Provide stone pieces for cut-stone boulders that are rectangular in shape and approved by the engineer with dimensions as shown on the plans.

Provide base aggregate dense 1 1/4-inch in accordance with section 305 of the standard specification for leveling under cut-stone boulders.

C Construction

Properly trim and shape the bed and base aggregate leveling pad for the cut-stone boulders in a stair-step configuration as shown on the plans.

Cut-stone boulders shall be placed in an offset pattern such that vertical seams between stones do not horizontally align from one vertical layer of stone to the next.

Place cut-stone boulders by any mechanical means that will produce a completed job within reasonable tolerances of the typical section shown on the plans. Firmly set each cut stone boulder with no rocking or tipping providing a firm foundation for subsequent layers. Unless otherwise provided on the plans, provide cut-stone boulders not less than 8 inches thick. Limit hand work to the amount necessary to fill large voids or to correct segregated areas. Conform to the requirements of WisDOT standard specifications Subsection 645.3.1.7 for the placement of cut-stone boulders over base aggregate dense and Geotextile - Type HR. Do not place cut-stone boulders against or in contact with any concrete masonry surface prior to the expiration of the curing and protection period for the concrete.

Cut-stone boulders shall be placed at the plan elevations and locations regardless of existing water levels. Provide dewatering and protection of the work area as required for proper installation.

Where storm sewer installations are required within the limits of the cut-stone boulder limits, coordinate the work schedule to ensure proper staging of operations. Maintain a 6 inch minimum depth of granular backfill over the storm sewer pipe. Wrap geotextile against the concrete apron and seal voids between boulders and the apron with cement grout. Grouting and granular backfill are incidental to cut-stone boulders.

D Measurement

Cut-Stone Boulders will be measured by the exposed square foot in place of the completed work, and the quantity thereof to be paid for will be the summation of the exposed square foot projections onto a horizontal plane of the surface areas of such cut-stone boulders incorporated in the work in accordance with the contract. No deduction in quantity will be made for storm sewer pipe or aprons projecting through the cut-stone boulders. Only accepted work will be measured for payment and the computation of the quantity thereof will be based on the area within the limiting dimensions designated on the plans, in the contract, or established by the engineer. A minimum of 6-inches of base aggregate dense 1 1/4-inch shall be placed under the cut-stone boulders for a leveling pad and is incidental to cut-stone boulders. The minimum width of the leveling pad equals the width of the bottom block course plus 6 inches at both faces. The geotextile under the cut stone boulders will be paid for under a separate bid item.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.004	Cut-Stone Boulders	SF

Payment is full compensation for excavation and preparation of the bed, including backfilling and disposal of surplus material; for furnishing and placing base aggregate leveling pad and cut-stone boulders; for restoring the site of the work.

**137. Wall Concrete Panel Mechanically Stabilized Earth R-13-379, Item SPV.0165.005;
Wall Concrete Panel Mechanically Stabilized Earth R-13-382, Item SPV.0165.006.**

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system in accordance with the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

This special provision describes the quality management program (QMP) for Mechanically Stabilized Earth (MSE) walls. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process that are related to the construction of the MSE wall, which meets all the requirements of this provision.

This special provision describes contractor quality control (QC) sampling and testing for backfill density testing, documenting those results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.

Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes sampling and testing procedures.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Concrete Panel Mechanically Stabilized Earth Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid opening date. To receive pre-approval, the retaining wall system must comply with all requirements of this provision and be prepared in accordance with the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

To be eligible to provide wall facing panels for this project, a precast concrete manufacturing plant must be pre-approved by the Bureau of Technical Services under standard specification 106.3.3.3.1 prior to the bid closing date. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Technical Services at the following email address: DOTProductSubmittal@wisconsin.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to [105.2](#) with electronic submittal to the fabrication library under [105.2.2](#). Certify that shop drawings conform to quality control standards by submitting department form [DT2329](#) with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11 inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for

Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the Department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined in accordance with Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls in accordance with the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer. Where walls or wall sections intersect with an included angle of 130 degrees or less, a vertical corner element separate from the standard panel face shall abut and interact with the opposing standard panels. The corner element shall have ground reinforcement connected specifically to that panel and shall be designed to preclude lateral spread of the intersecting panels. If the wall is installed in front of a bridge abutment or wing, it shall also be designed to resist the applied abutment/bridge lateral forces specified on the plans.

Walls parallel to supporting highway traffic shall be designed for the effects of highway surcharge loading equivalent of 2 feet soil surcharge weight or 240 psf. The design shall also consider the traffic barrier impact where applicable. Walls that do not carry highway traffic shall be designed for a live load surcharge of 100 psf in accordance with Chapter 14 of the WisDOT LRFD Bridge Manual or as stated on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratios (CDR) for sliding, eccentricity, and bearing checks is performed by the department and are provided on the wall plans.

The design of the wall by the contractor shall consider the internal and compound stability of the wall mass in accordance with AASHTO LRFD 11.10.6. The internal stability shall include soil reinforcement pullout, soil reinforcement rupture, and panel-reinforcement connection failure at each soil reinforcement level. The design shall be performed using the Simplified Method or Coherent Gravity Method. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The value of the pullout resistance factor, F^* , used in design calculations shall be obtained from the AASHTO LRFD Figure 11.10.6.3.2-2 as appropriate to the proposed reinforcement type. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

The wall facing shall be designed in accordance with AASHTO LRFD 11.10.2.3. The facing panels shall also be designed to resist compaction stresses that occur during the wall erection. The minimum thickness of the facing panel shall be 5.5 inches. The surface area of a standard single panel cannot exceed 60 square feet. The maximum height of a standard panel shall be 5 feet. The top and bottom panels may exceed 5 foot in height based on site topography subject to the approval by the Structures Design Section. The design of the steel reinforcement within the panels shall be based on one-way bending action. Design the wall panels and joints between panels to accommodate a maximum differential settlement of 1 foot over a 100-foot length with $\frac{3}{4}$ -inch joint widths, unless the plans indicate other maximum differential settlement requirements.

The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height, or as shown on the plan. In no case shall this length be less than 8 feet. The soil reinforcement length shall be the same from the bottom to the top of the wall. All soil reinforcement layers shall be connected to facings. The soil reinforcement shall extend a minimum of 3.0 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be 31 inches. The uppermost layer of the reinforcement shall be located between 6 inches and 18 inches below the bottom of an overlying slab, footing or top of the wall. The upper layers of the soil reinforcement shall also be checked to verify that they have sufficient tensile resistance against traffic barrier impact where applicable.

All soil reinforcement required for the reinforced soil zone shall be connected to the face panels. The reinforcement and the reinforcement/facing connection strength shall be designed to resist maximum factored reinforcement loads in accordance with AASHTO LRFD Section 11.10.6. Facing connection strength shall be defined as the resistance factor times the failure load, or the load at 0.5 inch deformation times 0.9, whichever is less. The nominal long term design strength in steel reinforcement and connections shall be based upon assumed conditions at the end of the design life.

Soil reinforcement shall be prefabricated into single or multiple elements before galvanizing. Soil reinforcement shall be fabricated or designed to avoid piling, drainage structures or other obstacles in the fill without field modifications. Unless approved by the Bureau of Structures cutting or altering of the basic structural section of either the strip or grid at the site is prohibited, a minimum clearance of 3" shall be maintained between any obstruction and reinforcement, and splicing reinforcement is not allowed.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on a leveling pad.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Wall Facing

Wall facing shall consist of modular precast concrete face panels produced by a wet cast process. The concrete panels shall have a minimum strength of 4000 psi at 28 days. The concrete for the panels shall be air entrained, with an air content of 6% +/- 1.5%. All materials for the concrete mixture for the panels shall meet the requirements of standard spec 501. The panel edges shall be configured so as to conceal the joints. The detail shall be a shiplap, tongue and groove or other detail adequate to prevent vandalism or ultraviolet light damage to the backside of the wall joint covering. Joint widths between panels shall be uniform and 3/4-inch, unless noted otherwise on the plans. Use full wall height slip joints at points of differential settlement when detailed on the plan. Horizontal joints must be provided with a compressible bearing material to prevent concrete to concrete contact. Panels shall be reinforced using coated high-strength bar steel or welded steel wire fabric conforming to standard spec 505. Welded steel wire fabric shall be epoxy-coated in accordance with ASTM A884 or galvanized in accordance with AASHTO M 111 or ASTM A641. Panel dowels for cast-in-place copings shall be coated high-strength bar steel conforming to standard spec 505. Unless approved by the Bureau of Structures, adhesive anchors are prohibited.

For reinforced cast-in-place concrete cap or coping, use poured Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast-in-place cap and coping concrete as specified in standard spec 716, Class II Concrete. Use coated high-strength bar steel conforming to standard spec 505.

Provide a minimum of two bearing pads per panel. The allowable bearing stress shall not exceed 900 psi. The bearing pads shall be preformed EPDM rubber conforming to ASTM D2000, Grade 2, Type A, Class A with a Durometer Hardness of 80 +/-5, or high- density polyethylene pads with a minimum density of 0.034 lb/in³ in accordance with ASTM D1505.

An 18-inch wide geotextile shall be used on the backface of the wall panels to cover all panel joints. The geotextile shall meet the physical requirements stated in standard spec 645.2.4 for Geotextile, Type DF, Schedule B, except that the grab tensile strength shall be a minimum of 180 pounds in both the machine and cross-machine directions. The geotextile shall be attached with a standard construction adhesive suitable for use on concrete surfaces and cold temperatures. The adhesive shall be applied to the panels, not to the geotextile.

B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad. Use Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

The minimum width of the leveling pad shall be 12-inches. The minimum thickness of the leveling pad shall be 6-inches.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Place backfill in a zone extending horizontally from the back face of the wall facing to 1 foot minimum beyond the end of the reinforcement and extending vertically from the top of the leveling pad to a minimum of 3 inches above the final reinforcement layer.

Use natural sand or a mixture of sand with gravel, crushed gravel or crushed stone. Do not use foundry sand, bottom ash, blast furnace slag, crushed/recycled concrete, crushed/milled asphaltic concrete or other potentially corrosive material.

Provide material conforming to the following gradation requirements as per AASHTO T27:

Sieve Size	% by Weight Passing
1 inch	100
No. 40	0 - 60
No. 200	0 - 15

The material shall have a liquid limit not greater than 25, as per AASHTO T89, and a plasticity index not greater than 6, as per AASHTO T90. Provide the percent by weight, passing the #4 sieve.

In addition, backfill material shall meet the following requirements:

Test	Method	Value	
		(Galvanized)	(Aluminized Type 2)
pH	AASHTO T-289	5.0-10.0	5.0 – 9.0
Sulfate content	AASHTO T-290	200 ppm max.	
Chloride content	AASHTO T-291	100 ppm max.	
Electrical Resistivity	AASHTO T-288	3000 ohm-cm min.	1500 ohm-cm min.
Organic Content	AASHTO T-267	1.0% max.	
Angle of Internal Friction	AASHTO T-236[1]	30 degrees min. (At 95.0% of maximum density and optimum moisture, per AASHTO T99, or as modified by C.2.)	

[1] If the amount of P-4 material is greater than 60%, use AASHTO 236 with a standard-size shear box. Test results of this method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

If the amount of P-4 material is less than or equal to 60%, two options are available to determine the angle of internal friction. The first method is to perform a fractured faces count, per ASTM D5821, on the R-4 material. If more than 90% of the material is fractured on one face and more than 50% is fractured on two faces, the material meets the specifications and the angle of internal friction can be assumed to be 30 degrees. The second method allows testing all P-1" material, as per AASHTO T-236, with a large shear box. Test results of this second method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

Prior to placement of the backfill, obtain and furnish to the engineer a certified report of test results that the backfill material complies with the requirements of this specification. Specify the method used to determine the angle of internal friction. This certified report of test shall be less than 6 months old. Tests will be performed by a certified independent laboratory. In addition, when backfill characteristics and/or sources change, provide a certified report of tests for the new backfill material. Additional certified report of tests are also required. These additional backfill tests may be completed at the time of material production or material placement, with concurrence of the engineer. If this additional testing is completed at the time of material production, complete testing for every 2000 cubic yards of backfill or portion thereof. If this additional testing is completed at the time of material placement, complete testing for every 2000 cubic yards of backfill, or portion thereof, used per wall. For the additional required testing for every 2000 cubic yards of backfill placement, if the characteristic of the backfill and/or the source has not changed then Angle of Internal Friction tests are not included in the additional required testing. All certified reports of test results shall be less than 6 months old and performed by a certified independent laboratory.

B.3.4 Soil Reinforcement

All steel portions of the wall system exposed to earth shall be galvanized. All soil reinforcement and attachment devices shall be carefully inspected to ensure they are true size and free from defects that may impair the strength and durability. Soil reinforcement shall be galvanized or aluminized Type 2. Galvanized soil reinforcement shall be in accordance with AASHTO M 111 or ASTM A641. Aluminized soil reinforcement shall be in accordance with ASTM A463 Aluminized Type 2-100, SS, Grade 50, Class

2. Design of galvanized soil reinforcement shall be in accordance to Section 11.10.6.4.2 of the current AASHTO LRFD Specifications. The design life of steel soil reinforcements shall comply with AASHTO LRFD. Aluminized soil reinforcement shall be limited 16 years of steel protection. Aluminized steel shall only be used on soil reinforcement elements and shall not be used on facing connections or any other steel portion of the wall system. Steel soil reinforcement shall be prefabricated into single or multiple elements before galvanizing.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the MSE wall and the leveling pad shall be in accordance with standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the depth of the leveling pad unless shown or noted otherwise on the plan. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall panels, soil reinforcement, or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing. Place and compact material beyond the reinforced soil zone to allow for proper compaction of material within the reinforced zone. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back panels. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the panels.

C.2 Compaction

Compact all backfill behind the wall as specified in standard spec 207.3.6. Compact the backfill to 95.0% of maximum dry density as determined by AASHTO T-99 (modified to compute densities to the nearest 0.1 pcf).

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the panels. Do not use sheepfoot or padfoot rollers within the reinforced soil zone.

A minimum of 3 inches of backfill shall be placed over the MSE reinforcement prior to working above the reinforcement.

C.3 Wall Components

C.3.1 General

Erect panel facing and other associated elements according to the wall manufacturer's construction guide. Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing.

The MSE reinforcement shall lay horizontally on the top of the most recently placed and compacted layer of MSE backfill. Bending of MSE reinforcement that result in a kink in the reinforcement shall not be allowed. If skewing of the reinforcement is required due to obstructions in the reinforced fill, the maximum skew angle shall not exceed 15 degrees from the normal position unless a greater angle is shown on the plans. The adequacy of the skewed reinforcement in such a case shall be addressed by supporting calculations.

C.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad as shown on the plans. Vertical tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. Allow concrete to set at least 12 hours prior to placing wall facing units.

The bottom row of wall facing units shall be horizontal and 100% of the unit surface shall bear on the leveling pad. Rubber or plastic shims may be used to level the wall facing units at the leveling pad. No more than 2 shims (each 3/16-inch thick) shall be used to level the wall facing.

C.3.3 Steel Layers

Place the steel reinforcement full width in one piece as shown on the plans. No splicing will be allowed. Maintain elements in position during backfilling.

C.3.4 Panel Tolerances

As backfill material is placed behind a panel, maintain the panel in its proper inclined position according to the supplier specifications and as approved by the engineer. The supplier shall specify the back batter so that the final position of the wall is vertical. Vertical tolerances and horizontal alignment tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. The maximum allowable offset in any panel joint shall be 3/4-inch. The overall vertical tolerance of the wall (plumbness from top to bottom) shall not exceed 1/2-inch per 10 feet of wall height. Erect the precast face panels to ensure that they are located within 1 inch from the contract plan offset at any location to ensure proper wall location at the top of the wall. Provide a uniform joint width between all adjacent face panels to prevent direct concrete-to-concrete contact. Maintain this width by the use of bearing pads and/or alignment pins. The final joint width shall be within 1/4-inch of the design joint width. Failure to meet this tolerance shall cause the engineer to require the contractor to disassemble and re-erect the affected portions of the wall. In addition, imperfect molding, honeycombing, cracking or severe chipping of panels shall be cause of panel rejection.

C.4 Quality Management Program

C.4.1 Quality Control Plan

Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not perform MSE wall construction work before the engineer reviews and accepts the plan. Construct the project as the plan provides.

Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:

- An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
- The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.
- A list of source locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
- Descriptions of stockpiling and hauling methods.
- An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
- Location of the QC laboratory, retained sample storage, and other documentation.
- A summary of the locations and calculated quantities to be tested under this provision.
- A proposed sequencing plan of wall construction operations and random test locations.

C.4.2 Quality Control Personnel

Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at the grading site during all wall backfill placement, compaction, and nuclear testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

If an Assistant Certified Technician (ACT) is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

C.4.3 Equipment

Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.

Furnish nuclear gauges from the department's approved product list at:

<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/appr-prod/default.aspx>

Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

Conform to AASHTO T310 and CMM 8-15 for density testing and gauge monitoring methods.

Split each Proctor sample and identify so as to provide comparison with the department's test results. Unless the engineer directs otherwise, retain the QC split samples for 14 calendar days and promptly deliver the department's split samples to the department.

C.4.4 Documentation

Document all observations, inspection records, and process adjustments daily. Submit test results to the department's project materials coordinator on the same day they become available.

Use forms provided in CMM Chapter 8. Note other information in a permanent field record and as a part of process control documentation enumerated in the contractor's quality control plan. Enter QC data and backfill material certified report results into the applicable materials reporting system (MRS) software within 5 business days after results are available.

Submit final testing records and other documentation to the engineer electronically within 10 business days after all contract-required information becomes available. The engineer may allow submission of scanned copies of hand-written documentation.

C.4.5 Quality Control (QC) Testing

Perform compaction testing on the backfill. Conform to CMM 8-15 for testing and gauge monitoring methods. Conduct testing at a minimum frequency of 1 test per 150 cubic yards of backfill, or major portion thereof in each lift. A minimum of one test for every lift is required. Deliver documentation of all compaction testing results to the engineer at the time of testing.

Perform one gradation test every 750 cubic yards of fill and one 5-point Proctor test (or as modified in C.2) every 2,250 cubic yards of fill. Provide the region split samples of both within 72 hours of sampling, at the region laboratory. Test sites shall be selected using ASTM Method D3665. Provide Proctor test results to the engineer within 48 hours of sampling. Provide gradation test results to the engineer within 24 hours of sampling.

C.4.6 Department Testing

C.4.6.1 General

The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within 2 business days after the department obtains the sample.

C.4.6.2 Quality Verification (QV) Testing

The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.4.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

The department will conduct QV tests at the minimum frequency of 30% of the required contractor density, Proctor and gradation tests.

The department will locate density tests and gradation samples randomly, at locations independent of the contractor's QC work. The department will split each Proctor and gradation QV sample, testing half for QV, and retaining the remaining half for 10 business days.

The department will conduct QV Proctor and gradation tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.

The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If density QV test results are nonconforming, the area shall be reworked until the density requirements of this special provision are met. If the gradation test results are nonconforming, standard spec 106.5 will apply. Differing QC and QV nuclear density values of more than 1.5 pcf will be investigated and resolved. QV density tests will be based on the appropriate QC Proctor test results, unless the QV and QC Proctor result difference is greater than 3.0 pcf. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.4.6.3 Independent Assurance (IA)

Independent assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing, including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

- Split sample testing.
- Proficiency sample testing.
- Witnessing sampling and testing.
- Test equipment calibration checks.
- Reviewing required worksheets and control charts.
- Requesting that testing personnel perform additional sampling and testing.

If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.4.6.4.

C.4.6.4 Dispute Resolution

The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

Production test results, and results from other process control testing, may be considered when resolving a dispute.

If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.5 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation of the entire reinforced soil zone, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Wall Concrete Panel Mechanically Stabilized Earth by the square foot acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.005	Wall Concrete Panel Mechanically Stabilized Earth R-13-379	SF
SPV.0165.006	Wall Concrete Panel Mechanically Stabilized Earth R-13-382	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pads, leveling pad steps, and shims; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing. The department will pay separately for parapets, traffic barriers, railings, and other items above the wall cap or coping.

**138. Piling Steel Sheet Permanent Installed R-13-383, Item SPV.0165.007;
Piling Steel Sheet Permanent Installed R-13-384, Item SPV.0165.008;
Piling Steel Sheet Permanent Installed R-13-385, Item SPV.0165.009.**

A Description

This special provision describes installing permanent steel sheet piling for retaining wall R-13-383, R-13-384, and R-13-385, which are near the Babcock Park Lock and Dam.

B (Vacant)

C Construction

Conform to the requirements of standard spec 512 except as modified herein.

Replace standard spec 512.3.1.1 with the following:

Coordinate piling installation operations to prevent damage or displacement of concrete in substructure units or damage to adjacent facilities due to vibrations. The adjacent Babcock Park Lock and Dam is sensitive to vibration.

Install sheeting with a variation of ¼ inch or less per foot from the vertical or from the batter the plans show. Ensure that sheet piles are within 3 inches of the plan position after installation. Do not damage sheet piles attempting to correct for misalignment.

Remove and replace, or otherwise correct, sheet piles the engineer deems unacceptable under standard spec 105.3. Submit details of planned corrections to the engineer for review and approval before initiating any corrective action.

Install sheet piles to or beyond the required tip elevation the plans show.

Replace standard spec 512.3.1.2 with the following:

Furnish a sheet pile installation system capable of installing the sheet piles to the required minimum tip elevation the plans show.

The engineer may order the contractor to remove a pile installation system component from service if it causes insufficient energy transfer or damages the sheet piles. Do not return a component to service until the engineer determines that it has been satisfactorily repaired or adjusted.

Vibratory or driven sheet piles shall not be used. Install sheet piles with a hydraulic press-in system to mitigate vibration and settlement risks.

Prior to installing the sheet piles near the Babcock Park Lock and Dam, excavate to expose the top of foundation footing for the existing bridge and existing dam and remove portions of footing as detailed in B-13-907 plans taking care not to undermine the footing while excavating and removing.

Prepare an installation plan showing layout of existing adjacent structures and utilities. Clearly describe the installation sequence and equipment required for installation and submit to the Engineer for review. Consider and include equipment space requirements near adjacent structures as part of the installation plan.

D Measurement

The department will measure Piling Steel Sheet Permanent Installed by the square foot acceptably completed. The department will measure the area of the wall based on plan wall lengths and the top and

bottom of sheet pile elevations provided in the plans. The department will make no allowance for overlap of the piles.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.007	Piling Steel Sheet Permanent Installed R-13-383	SF
SPV.0165.008	Piling Steel Sheet Permanent Installed R-13-384	SF
SPV.0165.009	Piling Steel Sheet Permanent Installed R-13-385	SF

Payment is full compensation for preparing shop drawings and installation plan; installing, cutting off, and painting the steel sheet piles.

139. Geoweb Access Cells, Item SPV.0165.301.

A Description

This section includes providing all material, labor, tools and equipment for installation of geocell system as shown in the Contract Documents and specified in this section. The geocell shall be used for load support application.

A.1 Submittals

Submit manufacturer's shop drawing submittals including Manufacturer's product data, calculations, drawings and field representative qualifications.

Manufacturer Calculations. Provide a complete set of project calculations to determine the load support requirements.

- The calculations shall be submitted at the time of bid. The calculation shall be included in an evaluation containing a written summary, plan view, cross section, calculations, stress distribution graph, number of passes graph and research and testing documentation. The evaluation shall be based on site specific project conditions. No standard tables or graphs are acceptable.
- The calculation method shall be based on computer software developed through research and testing at an accredited university or research facility based specifically on the product being submitted. Provide third party research summary for the calculation method specific to the manufacturer's material values and panel connectors.
- The load support calculations shall be based on wheel loading, tire pressure, number of passes, bearing capacity coefficient and include the following:
 - The minimum allowable stress factor of safety shall be 1.40.
 - Provide geocell size and depth.
 - Provide hoop stress (psi/kPa) and hoop tension (lb/kg) values.
 - Perforated cell wall factor of safety for rupture.
 - Internal junction (seams) factor of safety for peel, shear and separation.
 - Mechanical junction (panel connection) factor of safety for peel, shear and separation.
 - Vertical stress distribution graph showing stress reduction vs. depth below surface.
 - Number of passes graph showing cross section requirement vs. number-of passes.
 - Provide third party testing on panel connection device showing minimum pull through resistance of 275 lbs.
- If required, provide a description of the recommended enhanced woven geotextile separation layer and include in the calculations.
- The stability calculations shall be in Microsoft Excel converted to Adobe PDF format.
- Cross section drawings shall be in AutoCAD converted to Adobe PDF format.

Manufacturer's Certificate of Analysis: Manufacturer shall supply certificate of analysis containing the following test results for the geocell material used for project: Base Resin Lot Number(s), Resin Density per ASTM-1505, Production Lot Number(s), Material Thickness, Short Term Seam Peel Strength, and percentage of Carbon Black. Submit qualifications certifying the installer is experienced in the installation of the specified products.

Submit qualifications of Manufacturer's field representative certifying the field representative is experienced in the installation of the specified products.

No material will be considered as an equivalent to the geocell material specified herein unless it meets all requirements of this specification, without exception. Alternates must be submitted prior to bid.

Manufacturers seeking to supply what they represent as equivalent material must submit records, data, independent test results, samples, certifications, and documentation deemed necessary by the Engineer

to prove equivalency. The Engineer shall approve or disapprove other Manufacturers' materials in accordance with the General Conditions after all information is submitted and reviewed. Any substitute materials submitted shall be subject to independent lab testing at the contractor's expense.

A.2 Quality Assurance and Control

The geocell material shall be provided from a single Manufacturer for the entire project.

The Manufacturer's Quality Management System shall be certified and in accordance with ISO 9001:2015 and CE certification. Any substitute materials submitted shall provide a certification that their geocell manufacturing process is part of an ISO program and a certification will be required specifically stating that their testing facility is certified and in accordance with ISO. An ISO certification for the substitute material will not be acceptable unless it is proven it pertains specifically to the geocell manufacturing operations.

The Manufacturer shall provide certification of compliance to all applicable testing procedures and related specifications upon the customer's written request. Request for certification shall be submitted no later than the date of order placement. The Manufacturer shall have a minimum of 20 years' experience producing geocells and accessories.

Certified Installer Training Course:

At a minimum, the contractor's project manager and on-site project manager must complete the certified installer training course.

The certified training course covers best practices for base preparation, geotextile installation, engineered base composition and installation, unit installation and orientation, and unit fill.

The certified training course is free of charge and consists of reviewing the Construction Resource Package. The training course is 2 hours in length.

Pre-Construction Meeting: Prior to construction, conduct a virtual or on-site meeting to review all the requirements and expectations to complete the work. The pre-construction meeting shall be attended by all parties involved in the installation of the geocell system.

Manufacturer shall provide a recommended list of all necessary tools and equipment required for installation. Installation videos and techniques shall be reviewed.

Discuss any special features and requirements for the installation of the geocell system to prevent any delays and conflicts in completing the work.

Pre-Installation Meeting: Prior to installation of any materials, conduct a pre-installation meeting to discuss the scope of work and review installation requirements. The pre-installation meeting shall be attended by all parties involved in the installation of the geocell.

Manufacturer's Field Representative Qualifications:

Manufacturer shall provide a qualified field representative on site at the start of construction to ensure the system is installed in accordance with the Contract Documents.

Manufacturer's field representative shall have a minimum 10 years' installation experience with the specified products in the specified application.

Manufacturer of any substitute materials to be used shall certify that a representative can meet the above criteria and will be on site for initial construction start up. Manufacturers other than Presto will be required to provide proof the representative meets these qualifications

A.3 Delivery, Storage and Handling

Deliver materials to site in Manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and Manufacturer.

The materials shall be stored in accordance with Manufacturer's instructions. The materials shall be protected from damage and away from direct sunlight.

The materials shall be delivered, unloaded and installed in a manner to prevent and minimize damage.

A.4 Warranty

The Manufacturer shall warrant each section that it ships to be free from defects in materials and workmanship at the time of manufacture. The Manufacturer's exclusive liability under this warranty or otherwise will be to furnish without charge to the original f.o.b. point a replacement for any section which proves to be defective under normal use and service during the 10-year period which begins on the date

of shipment. The Manufacturer reserves the right to inspect any allegedly defective section in order to verify the defect and ascertain its cause.

This warranty shall not cover defects attributable to causes or occurrences beyond the Manufacturer's control and unrelated to the manufacturing process, including, but not limited to, abuse, misuse, mishandling, neglect, improper storage, improper installation, improper alteration or improper application.

In no event shall the Manufacturer be liable for any special, indirect, incidental or consequential damages for the breach of any express or implied warranty or for any other reason, including negligence, in connection with the geocell.

B Materials

B.1 Acceptable Manufacturer

Presto Geosystems, PO Box 2399, Appleton, Wisconsin 54912-2399.

Phone: (920) 738-1328.

Email: info@prestogeo.com.

website: www.prestogeo.com.

B.2 GEOWEB® Geocell

B.2.1 Manufacturing Certification

The Manufacturer shall have earned a certificate of registration, which demonstrates that its quality-management system for its geocell is currently registered to the ISO 9001:2015 and CE quality standards.

B.2.2 Base Materials

Polyethylene Stabilized with Carbon Black

Density shall be 58.4 to 60.2 pound/ft³ (0.935 to 0.965 g/cm³) in accordance with ASTM D1505.

Environmental Stress Crack Resistance (ESCR) shall be 5000 hours in accordance with ASTM D1693.

Resistance to Oxidation shall be minimum of 100 years in accordance with EN ISO 13438.

100% of original strip tensile strength shall be retained following exposure to accelerated weathering in accordance with EN 12224.

The Flexural Storage Modulus shall be a minimum of 800 MPa in accordance with ISO 6721.

Ultra-Violet light stabilization with carbon black.

Carbon Black content shall be 1.5 to 2 percent by weight, through addition of a carrier with certified carbon black content.

Carbon black shall be homogeneously distributed throughout material.

The manufacturer must have an in-place quality control to prevent irregularities in strip material.

B.2.3 Cell Properties

Individual cells shall be uniform in shape and size when expanded.

Individual cell dimensions (nominal) shall be dimensions $\pm 10\%$.

GW20V Cell

Length shall be 8.8 inches (224 mm).

Width shall be 10.2 inches (259 mm).

Nominal area shall be 44.8 in² (289 cm²) plus or minus 1%.

Nominal depth shall be 6 inches (150 mm).

B.2.4 Strip Properties and Assembly

Perforated Textured Strip/Cell

Strip sheet thickness shall be 50 mil (1.27 mm), minus 5 percent, plus 10 percent in accordance with ASTM D5199. Determine thickness flat, before surface disruption.

Polyethylene strips shall be textured surface with a multitude of rhomboidal (diamond shape) indentations.

Textured sheet thickness shall be 60 mil plus or minus 6 mil (1.52 mm plus or minus 0.15 mm).

Indentation surface density shall be 140 to 200 per in² (22 to 31 per cm²).

Perforated with horizontal rows of 0.4-inch (10 mm) diameter holes.

Perforations within each row shall be 0.75 inches (19 mm) on-center.

Horizontal rows shall be staggered and separated 0.50 inches (12 mm) relative to hole centers.

Edge of strip to nearest edge of perforation shall be a minimum of 0.3 inches (8 mm).

Centerline of spot weld to nearest edge of perforation shall be a minimum of 0.7 inches (18 mm).

A slot with a dimension of 3/8 inch x 1-3/8 inch (10 mm x 35 mm) is standard in the center of the non-perforated areas and at the center of each weld.

Assembly of Cell Sections

Fabricate using strips of sheet polyethylene each with a length of 142 inches (3.61 m) and a width equal to cell depth.

Connect strips using full depth ultrasonic spot-welds aligned perpendicular to the longitudinal axis of strip.

Ultrasonic weld melt-pool width shall be 1.0-inch (25 mm) maximum.

Weld spacing for GW20V cell sections shall be 14.0 inches plus or minus 0.10 inch (356 mm plus or minus 2.5 mm).

B.2.5 Cell Seam Strength Tests

Minimum seam strengths are required by design and shall be reported in test results. Materials submitted with average or typical values will not be accepted. Written certification of minimum strengths must be supplied to the engineer at the time of submittals.

Short-Term Seam Peel-Strength Test

Cell seam strength shall be uniform over full depth of cell.

Minimum seam peel strength shall be 480 lbf (2,130 N) for 6-inch (150 mm) deep panels.

Long-Term Seam Peel-Strength Test

Conditions: Minimum of 7 days in a temperature-controlled environment that undergoes change on a 1-hour cycle from room temperature to 130 °F (54 °C).

Room temperature shall be in accordance with ASTM E41.

Test samples shall consist of two, four-inch (100 mm) wide strips welded together.

Test sample consisting of two carbon black stabilized strips shall support a 160-pound (72.5 kg) load for test period.

Internal Junction Efficiency

Internal junction efficiency (seams) shall be determined as a ratio of junction performance to perforated strip performance, as determined by EN ISO 10319 and EN ISO 13426.

Internal junction efficiency (factor of safety) shall be calculated for peel, shear and separation.

Minimum internal junction efficiency shall be ≥ 100 percent.

Mechanical Junction Efficiency

Mechanical junction efficiency (panel to panel connection) shall be determined as a ratio of junction performance to perforated strip performance, as determined by EN ISO 10319 and EN ISO 13426.

Mechanical junction efficiency (factor of safety) shall be calculated for peel, shear and separation.

Minimum mechanical junction efficiency shall be ≥ 100 percent.

Panel connection device shall be with integral components as designed by the Manufacturer.

10,000-hour Seam Peel Strength Certification

Provide data showing that the high-density polyethylene resin used to produce the geocell sections has been tested using an appropriate number of seam samples and varying loads to generate data indicating

that the seam peel strength shall survive a loading of at least 209 lbf (95 kg) for a minimum of 10,000 hours.

B.3 Integral Components

B.3.1 ATRA® Stake Clip

The stake clip is a molded, high-strength polyethylene device available in standard (0.5 inch) and metric (10–12 mm) versions.

Stake clips shall be installed as an end cap on No. 4 (0.5 inch) and metric (10–12 mm) steel rebar to form ATRA® Anchors.

B.3.2 ATRA® Key

The keys shall be constructed of polyethylene and provide a high strength connection with minimum pull-through resistance of 275 lbs (125 kg).

Keys shall be used to connect sections together at each interleaf and end-to-end connection.

The keys include a structurally reinforced handle and frictional barbs to enhance interlock with the textured wall surface to prevent mechanical joint failure including peel, shear and separation.

Metal staples, zip ties, and two-piece connectors are not an acceptable panel connection method.

B.4 Stake Anchorage

B.4.1 ATRA® Anchors

Anchors shall consist of No. 4 (0.5 inch) or metric (10–12 mm) steel reinforcing rod with a stake clip attached as an end cap.

Anchors shall be assembled by inserting the stake clip onto the rebar so that the end is flush with the top of the stake clip. Prior to attaching the stake clip, the rebar shall be beveled and free from all burrs.

The anchor length and placement shall be as shown in the Contract Documents.

B.5 Infill Materials

Infill material shall be an engineered fill consisting of topsoil and aggregate mixture for vegetated surfaces.

Engineered infill shall consist of 1/3 pulverized topsoil and 2/3 aggregate mixture. The mixture shall promote vegetation growth and provide structural support.

The aggregate portion shall have a particle range from 0.375 to 1.0 inches (9.5 to 25 mm) with a D₅₀ of 0.5 inches (13 mm).

Blend the topsoil and aggregate to produce a homogenous mixture.

The percentage void space of the aggregate portion when compacted shall be at least 30%.

Once placed, the mixture shall be compacted in accordance with Contract Documents.

Infill material shall be free of any foreign material.

Clays and silts are not acceptable infill material.

Infill material shall be free-flowing and not frozen when placed in the sections.

B.6 Additional Components

B.6.1 Surface Protection

Surface protection shall consist of hydroseed and erosion control blanket as specified in the Contract Documents.

B.6.2 Geotextile

The non-woven OR enhanced woven geotextile separation layer shall be as specified in the Contract Documents

C Construction

C.1 Examination

Verify site conditions are as indicated on the drawings. Notify the Engineer if site conditions are not acceptable. Do not begin preparation or installation until unacceptable conditions have been corrected.

Verify layout of structure is as indicated on the drawings. Notify the Engineer if layout of structure is not acceptable. Do not begin preparation or installation until unacceptable conditions have been corrected.

C.2 Installation

Prepare subgrade and install load support system in accordance with Contract Documents and manufacturer's installation guidelines.

On-site time for installation assistance by the Manufacturer's field representative shall be a minimum of a 1 day with one trip. All travel and expense costs for field representative installation observation shall be included in the base bid price.

C.2.1 Subgrade Preparation

Excavate and shape sub grade in accordance with the Contract Documents.

Ensure foundation soil meets minimum strength requirements through proof rolling or other conventional method and is approved by the Engineer. If unacceptable foundation soils are encountered, excavate and replace with suitable quality material as directed by the Engineer.

Install geotextile separation layer in accordance with the Contract Documents and manufacturer's recommendations including overlaps based on sub grade CBR.

C.2.2 Subbase Preparation and Installation

Ensure that the subgrade soil meets the minimum strength requirements for installation of the subbase.

Place additional subbase materials to the required depth as specified in the Contract Documents.

Compact to a minimum 95 percent Standard Proctor.

Install geotextile separation layer on top of subbase ensuring required overlaps are maintained and outer edges of the geotextile are buried in accordance with the Manufacturer's recommendations.

C.2.3 Section Anchorage and Connection

Anchorage requirements shall be as shown on the Contract Documents.

Anchorage shall be provided by ATRA anchors.

After the sections are expanded, drive anchors so the arm of the stake clip engages with the top of the cell wall.

Connect the sections with keys at each interleaf and end-to-end connection. Insert the key through the cell wall I-slot before inserting through the adjacent cell. Turn the key 90 degrees to lock the sections together.

Anchorage pattern and stake length shall be as specified in the Contract Documents.

C.2.4 Engineered Infill Placement

Place infill with suitable material handling equipment.

Infill shall be free-flowing and not frozen when placed in the sections.

Overfill cells and compact to provide a minimum 2-inch wear surface. Maintain the wear surface over the sections to prevent damage to the cell walls.

Limit the drop height to prevent panel distortion.

Compact as specified in the Contract Documents.

Surface protection shall be provided and installed in accordance with the Contract Documents.

D Measurement

The department will measure Geoweb Access Cells per the square foot installed and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.301	Geoweb Access Cells	SF

Payment is full compensation for all costs associated with material, labor, time and installation of the access cells and required base and infill required for the access area.

140. Pavement Cleanup Project 5845-16-76, Item SPV.0170.001.

A Description

This special provision describes cleanup of dust and debris from pavements within and adjacent to the job site.

B Materials

Furnish a vacuum-type street sweeper equipped with a power broom, water spray system, and a vacuum collection system.

Utilize vacuum equipment with a self-contained particulate collector capable of preventing discharge from the collection bin into the atmosphere.

Use a vacuum-type sweeper as the primary sweeper, except as specified herein or approved by the engineer.

C Construction

Keep all pavements, curb lanes and gutters both closed and open to public traffic within the job-site boundaries free of dust and debris generated from any activity under the contract. Keep all pavements, curb lanes and gutters adjacent to the project free of dust and debris that are affected by land disturbing, dust generating activities, as defined in the contractor's dust control implementation plan.

Conduct sweepings as the engineer directs or approves, to deal with dust problems that might arise during off-work hours or emergencies. Provide the engineer with a contact person available at all times to respond to requests for emergency sweeping. Respond to emergency sweeping requests within 4 hours.

If the vacuum-type sweeper breaks down, a mechanical broom sweeper may be substituted for no more than 24 hours total elapsed time. Repair the vacuum-type sweeper within that 24 hours or substitute a vacuum-type sweeper.

Skid steers with mechanical power brooms may only be utilized on sidewalks and driveways whose pavements will not support the weight of a street sweeper, unless otherwise approved by the engineer.

D Measurement

The department will measure Pavement Cleanup Project 5845-16-76 by the full 100-foot station acceptably completed, measured along the roadway centerline or reference line with each full 100-foot station starting and ending at a +00 station. If 2 or more roadways occur, the department will measure along the centerline or reference line of each roadway. For divided highways, the department will extend measurement units for each roadway, in width, from 5 feet outside the grading limit of that roadway to a line mid-way between the reference lines or centerlines for each roadway.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0170.001	Pavement Cleanup Project 5845-16-76	STA

Payment is full compensation for surveillance, mobilization, sweeping, and disposing of materials.

141. Excavation, Hauling, and Disposal of Contaminated Soil and Groundwater, Item SPV.0195.001.

A Description

A.1 General

Soil considered to be solid waste due to the presence of lead is expected to be encountered within the construction limits. Groundwater contaminated with lead and VOCs may be encountered within the construction limits.

This special provision describes excavating, loading, hauling, and disposing of contaminated soil at a DNR approved landfill. The closest DNR landfills are:

Waste Management Madison Prairie Landfill
6002 Nelson Road
Sun Prairie, WI 53590
(866) 909-4458

Waste Management Deer Track Park Landfill
N6756 Waldmann Lane
Watertown, WI 53094
(866) 909-4458

Perform this work conforming to standard spec 205 and Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

Provide information to the environmental consultant and engineer that indicates the WDNR-approved disposal facility that the contractor will use for soil and the disposal facility the contractor will use for water.

A.2 Notice to the contractor – Contaminated Soil and Groundwater Locations

The department and others completed testing for soil contamination for locations within this project where excavation is required. Testing indicated that lead-contaminated soil and/or groundwater is present at the following locations:

- Station 72+15 'BR' to the project limits, construction limits on the left to the reference line from 2 feet below ground surface to construction limits (5+ feet) below grade.
- Station 869+50 'NB' to 870+00 'NB', construction limits on right to reference line from 6 feet below ground surface to construction limits (15 feet bgs).

A.3 Notice to the contractor – Potentially Contaminated Soil Locations

Previous investigations and field observations indicate that contamination is present at the following locations:

- 5907 S Stoughton Rd: Field screening required. Station 874+75 'NB' to 876+00 'NB' from the construction limits on the right to the reference line from 0 to 8 ft bgs.

If contaminated soils and/or contaminated groundwater are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Examples of these unexpected conditions may include, but are not limited to, buried containers or tanks, noxious odors and fumes, stained soils, sheen on ground water, other industrial wastes, and significant volumes of municipal or domestic garbage.

Active groundwater monitoring wells were not observed within the construction limits during the hazardous materials assessment. If active groundwater monitoring wells are encountered during construction, notify the engineer and protect the wells to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

If dewatering is required at the above locations, conduct the dewatering in accordance with Section C below.

A.3 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation.

For further information regarding previous investigation and remediation activities at these sites contact:

Name: Brian Taylor
Wisconsin DOT, Southwest Region
Address: 2101 Wright Street, Madison, WI 53704
Phone: 608-516-3452
e-mail: brianf.taylor@dot.wi.gov

Name: Dan Haak
TRC Environmental Corporation
Address: 999 Fourier Drive, Suite 101, Madison, WI 53717
Phone: 608-826-3628 (office), 608-886-7423 (mobile)
Fax: 608-826-3941
e-mail: DHaak@trccompanies.com

A.4 Coordination

Coordinate work under this contract with the environmental consultant:

Consultant: TRC Environmental Corporation
Contact: Dan Haak, P.E.
Address: 999 Fourier Drive, Suite 101, Madison, WI 53717
Phone: (608) 826-3628
Fax: (608) 826-3941
E-mail: dhaak@trccompanies.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the landfill;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the landfill.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days before beginning excavation activities in the contaminated area.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated area. Perform excavation work in the contaminated area on a continuous basis until excavation work is completed.

Identify the DNR approved landfill that will be used for disposal of contaminated soils and provide this information to the environmental consultant no later than 30 calendar days before beginning excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the landfill. Do not transport contaminated soil offsite without prior approval from the environmental consultant. Do not pump or haul contaminated groundwater offsite without specific approval from the environmental consultant.

A.5 Health and Safety Requirements

Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil contaminated with lead, gasoline, diesel fuel, fuel oil, or other petroleum related products. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health

Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer before the start of work.

Disposal of contaminated soil at the bioremediation and/or disposal facility is subject to the facility's safety policies.

B (Vacant)

C Construction

Add the following to standard spec 205.3:

Control operations in the contaminated area to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically evaluate soil excavated from the contaminated area to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

On the basis of the results of such field-screening, the material will be designated for disposal as follows:

- Excavation Common consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or
- Low-level contaminated material (PID readings less than 10 ppm and no observation of staining or petroleum odor, or based on existing analytical data) for reuse as fill within the construction limits as allowed, or
- Petroleum-contaminated soil (significant petroleum odor, staining, and/or PID readings greater than 10 ppm) for off-site treatment and disposal at the WDNR-licensed bioremediation facility, or
- Contaminated soil (based on the presence of industrial fill or existing analytical data) for off-site disposal at the WDNR-licensed disposal facility, or
- Potentially contaminated for temporary stockpiling and additional characterization prior to disposal.

Directly load and haul soils designated by the environmental consultant for offsite landfilling to the DNR approved landfill. Verify that vehicles used to transport contaminated material are licensed for such activity in accordance with applicable state and federal regulations. Use loading and hauling practices that are appropriate to prevent any spills or releases of contaminated soils or residues. Before transport, sufficiently dewater soils designated for off-site landfilling so as not to contain free liquids.

It is likely that contaminated groundwater will be encountered during construction during deeper excavations for utilities (e.g., sanitary sewer and water facilities). Water encountered during construction operations, including excavated soil dewatering and trench dewatering, will require proper handling and disposal. Ensure continuous dewatering and excavation safety at all times. The Madison Metropolitan Sewerage District (MMSD) will accept the discharge from dewatering operations in accordance with the following requirements. Perform all necessary monitoring to document compliance with the requirements of the MMSD. Furnish install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with the requirements of the MMSD.

Contact MMSD prior to any discharge:

Madison Metropolitan Sewerage District
1610 Moorland Road
Madison, WI 53717

Attn: Julie Maas, Pretreatment Program Coordinator, (608) 218-0867; juliem@madsewer.org

Maintain compliance with MMSD requirements including but not limited to:

1. Provide a minimum 24-hour notification prior to when a discharge from dewatering is anticipated to the sanitary sewer collection system. Notification shall include dewatering pump size and flow in gallons per minute.
2. Use an approved method to prevent sand, grit, and gravel from entering the sanitary system. contractor is responsible for damage to pumps and other pump station equipment damaged due to sand/grit/rocks.
3. Meter or otherwise estimate the amount of discharge into the system.
4. Monitor a manhole upstream and downstream to verify the discharge is not surcharging the sewer.

Provide, operate, and maintain adequate pumping and water storage equipment. Minimize the amount and duration of pumping to minimize the amount of water necessary to discharge into the sanitary sewer. Take measures to limit groundwater, surface water, and precipitation from entering and exiting excavations in the areas of contamination. Such measures, which may include berming, ditching, or other means, shall be maintained until construction of utilities in the areas of contamination are complete. Notify the Engineer of any discharge activities and coordinate with the MMSD as necessary to discharge water, including permits if required. Provide such permits and written documentation of coordination to the Engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Discharging contaminated groundwater to any location other than that approved and provided by the environmental consultant is at the contractor's cost. If the contractor chooses alternate discharge, at the contractor's cost, obtain WDNR concurrence on any dewatering plans, and provide and operate any and all treatment and discharge equipment required. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

The environmental consultant may periodically evaluate water pumped during construction activities. Assist the environmental consultant in collecting water samples.

Provide and place suitable backfill material to return surface to required elevation of proposed subgrades.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Contaminated Soil and Groundwater in tons of contaminated soil, accepted by the bioremediation facility or landfill as documented by weight tickets generated by the bioremediation facility or landfill, accepted by the disposal facility as documented by receiving tickets generated by the disposal facility.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.001	Excavation, Hauling, and Disposal of Contaminated Soil and Groundwater	TON

Payment is full compensation for excavating, segregating, loading, hauling, dewatering and landfilling of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil and water samples for field evaluation; and dewatering of soils before transport, if necessary.

142. Standard Sanitary Manhole Masonry 48-Inch Diameter, Item SPV.0200.201.

A Description

This special provision describes Standard Sanitary Manhole Masonry 48-Inch Diameter. The work under this item will be in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin", February 19, 2022. This specification is available by contacting the Village of McFarland, 5915 Milwaukee Street, McFarland, WI 53558, or by calling (608) 838-3153.

B Materials

Furnish materials that are in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

C Construction

Construct items in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

D Measurement

The department will measure Standard Sanitary Manhole Masonry 48-Inch Diameter by the methods described in Section 33 05 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.201	Standard Sanitary Manhole Masonry 48-Inch Diameter	VF

Payment is full compensation for all work required in Section 33 05 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

143. Drop Sanitary Manhole Masonry 48-Inch Diameter, Item SPV.0200.202.

A Description

This special provision describes Standard Sanitary Manhole Masonry 48-Inch Diameter. The work under this item will be in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin", February 19, 2022. This specification is available by contacting the Village of McFarland, 5915 Milwaukee Street, McFarland, WI 53558, or by calling (608) 838-3153.

B Materials

Furnish materials that are in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

C Construction

Construct items in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

D Measurement

The department will measure Drop Sanitary Manhole Masonry 48-Inch Diameter by the methods described in Section 33 05 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.202	Drop Sanitary Manhole Masonry 48-Inch Diameter	VF

Payment is full compensation for all work required in Section 33 05 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

144. Construct New Drop Connection to Existing Manhole, Item SPV.0200.203.

A Description

This special provision describes Construct New Drop Connection to Existing Manhole. The work under this item will be in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin", February 19, 2022. This specification is available by contacting the Village of McFarland, 5915 Milwaukee Street, McFarland, WI 53558, or by calling (608) 838-3153.

B Materials

Furnish materials that are in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

C Construction

Construct items in accordance with Section 33 05 13 of the "Standard Specifications for Sanitary Sewer & Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

D Measurement

The department will measure Construct New Drop Connection to Existing Manhole by the methods described in Section 33 05 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.203	Construct New Drop Connection to Existing Manhole	VF

Payment is full compensation for all work required in Section 33 05 13 of the "Standard Specifications for Sanitary Sewer and Water Main Construction in Projects Bid by the Wisconsin Department of Transportation; Village of McFarland, Wisconsin".

ADDITIONAL SPECIAL PROVISION 1 (ASP 1) HIGHWAY CONSTRUCTION SKILLS TRAINING (HCST) PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Section 5204(e) – Surface Transportation Workforce Development Training and Education, provides for 100 percent Federal funding if the core program funds are used for training, education, or workforce development purposes, including “pipeline” activities. The core programs include: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, Highway Bridge Program (HBP), Interstate Maintenance (IM), National Highway System (NHS), and Surface Transportation Program (STP). These workforce development activities cover surface transportation workers, including OJT/SS programs for women and minorities as authorized in 23 U.S.C. §140(b).

The Wisconsin Department of Transportation OJT program was originally established in 1995. Highway Construction Skills Training (HCST) was previously known as Transportation Alliance for New Solutions (TrANS) and underwent a name change in early 2023. HCST is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities, and disadvantaged persons as laborers and apprentices in the highway skilled trades. Candidate preparation and contractor coordination services (OJT Supportive Services) are provided by contracted community-based organizations.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or advancement to apprenticeship of Highway Construction Skills Training (HCST) graduates and employing eligible trainees in qualifying trades will be made as follows:

- 1) **On-the-Job Training, Item ASP.1T0G, ASP 1 HCST Graduate.** At the rate of \$5.00 per hour on Federal-aid projects when HCST graduates are initially hired, or seasonally rehired, as unskilled laborers or equivalent.
Eligibility and Duration: To the employing contractor, for up to 2,000 hours or two years, whichever comes first from the point of initial hire as a HCST placement.
Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 12 HCST Graduate(s) be utilized for 6480 hours on this contract.
- 2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of \$5.00 per hour on Federal-aid projects at the point when an employee who came out of the HCST Program is subsequently entered into an apprenticeship contract in a qualifying trade.
Eligibility and Duration: To the employing contractor, for the length of time that the HCST graduate is in apprenticeship status.
Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 7 HCST Apprentice(s) be utilized for 2100 hours on this contract.
- 3) The maximum duration of reimbursement is two years as a HCST graduate plus time in apprentice status.
- 4) If a HCST program is not available in the contractor’s area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified

under Items ASP.1T0G and ASP.1T0A. For more information, contact the Department of Transportation Labor Development Specialist at the phone number listed below.

- 5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

II. RATIONALE AND SPECIAL NOTE

The \$5.00 per hour now being paid for HCST placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit HCST candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of HCST graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that HCST placements still contribute toward fulfilling the new hire goal of 50% women and minorities. Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

***NOTE:** Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

III. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL page 2 Dated January 2012 OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level. It is the contractor's responsibility to note on their Certified Payrolls if their employee is a HCST graduate or a HCST apprentice. The compliance specialists utilize the information on the Certified Payrolls to track the hours accumulated by HCST Graduates and HCST apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources. HCST is nondiscriminatory by regulation and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. HCST TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows: The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also ensure that this training special provision is made applicable to such subcontract. Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training

special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not. No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons, and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230 to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Office of Business Opportunity & Equity Compliance (OBOEC). A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT OBOEC - Labor Development, 141 NW Barstow Street, Suite 411, PO Box 798, Waukesha, WI 53187.

VI. PROGRAM CONTACTS

Marguerite (Maggie) Givings, Labor Development Specialist

Marguerite.Givings@dot.wi.gov | 608-789-7876

Deborah Seip, Labor Development Specialist

Deborah.Seip@dot.wi.gov | 262-548-8702

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM IMPLEMENTATION

Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

- (1) The Commitment to Subcontract to DBE (Form DT1506 or digital submittal), Attachments A, and Good Faith Effort Documentation (Form DT1202) will be submitted as described in Section 2.
- (2) Any change to DBE Commitments thereafter must follow modification of DBE subcontracting commitment as described in Section 9.
- (3) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid shopping is prohibited.
- (4) The contractor must utilize the specific DBE firms listed in the approved DBE Commitment to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent in advance from WisDOT. The contractor will not be entitled to payment for any work or materials on the approved DBE Commitment that is not performed or supplied by the listed DBE without WisDOT's written consent.

Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's *Standard Specifications for Highway and Structure Construction* and *Construction and Materials Manual*. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The Department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

- (1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

- (2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:
- Produce accurate and complete quotes
 - Understand highway plans applicable to their work
 - Understand specifications and contract requirements applicable to their work
 - Understand contracting reporting requirements
- (3) The Department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit the Department's Civil Rights and Compliance Section website at: <http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx>

1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

- a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.
- b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.
- c. **DBE:** Disadvantaged Business Enterprise – A for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.
- d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal. The prime contractor will have the option to submit the DT1506 digitally, as an entry with the bid in Bid Express, or as an attachment to the bid.
- e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of the DBE Commitment, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved DBE Commitment, and those submitted after approved commitment with Attachment A.
- f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.
- g. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
- h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.
- i. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
- j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote will not be separated.

2. WisDOT DBE Program Compliance

a. Documentation Submittal

- The Commitment to Subcontract to DBE (Form DT1506 or digital submittal) must be submitted at the time of bid (Tuesday) by all prime contractors.
- Attachments A OR quotes from all DBEs included in the Commitment must be submitted at bid (Tuesday) **OR**
- Within one-hour following bid submittal by ALL prime contractors via eSubmit (Tuesday).
- If only DBE quotes were submitted, all remaining signed Attachments A must be submitted within 24-hours of bid closing via eSubmit (Wednesday).
- If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) and supporting documentation must be submitted within 24-hours of bid closing (Wednesday) via eSubmit. [Instructions for eSubmit.](#)

****Bidders have the option of submitting the DBE Commitment at the time of bid via direct entry through Bid Express OR with attachment of Form DT1506 (Commitment to Subcontract to DBE). The DBE Commitment entered with bid is the digital form of the DT1506. Separate submission of Form DT1506 is not required if the DBE Commitment is entered in Bid Express. Form DT1202, if applicable, is no longer required to be submitted at time of bid; submit DT1202 within the 24-hour supplemental time frame following bid closing.**

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the DBE Commitment (digitally entered into the bid OR Form DT1506 as an attachment), Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

(1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the Department will evaluate the DBE Commitment submitted with bid OR Form DT1506, and Attachments A to verify the actual DBE percentage calculation. If the DBE Commitment is verified, the contract is eligible for award with respect to the DBE Commitment.

(2) DBE Goal Not Met

- a) If the bidder indicates a bid percentage on the DBE Commitment that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through submission of Form DT1202 (Documentation of Good Faith Effort) within 24-hours of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. The Department will review the bidder's DBE Commitment and evaluate the bidder's good faith efforts submission.
- b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the Department intends to:
 1. *Approve* the request (adequate documentation of GFE has been submitted) - no conditions placed on the contract with respect to the DBE Commitment;
 2. *Deny* the request (inadequate documentation of GFE has been submitted) - the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.

- c) If the Department denies the bidder's request, the contract is ineligible for award. The Department will provide a written explanation for denying the request to the bidder. The bidder may appeal the Department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted through eSubmit.

3. Department's Criteria for Good Faith Effort Documentation

The Federal-aid Construction Contract Provision, referenced as FHWA-1273, explicitly states that the prime contractor shall be responsible for all work performed on the contract by piecework, station work, or subcontract.

The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of the contract including assurances of equal employment opportunity laws, DBE regulations, and affirmative action. Compliance encompasses responsible and responsive action, documentation, and good faith effort.

Contractually, all contractors, subcontractors, and service providers on the contract are bound by FHWA 1273 and DBE program provisions. **Prime contractors should encourage subcontractors to utilize DBE firms whenever possible to contribute to the assigned DBE contract goal.**

Bidders are required to document good faith effort. Per 49 CFR Part 26.53, good faith effort is demonstrated in one of two ways. The bidder:

- (1) Documents that it has obtained enough DBE participation to meet the goal; OR
- (2) Documents that it made adequate good faith efforts to meet the goal, even though it did not succeed

Appendix A of 49 CFR Part 26 provides guidance concerning good faith efforts. WisDOT evaluates good faith effort on a contract basis just as each contract award is evaluated individually.

The efforts employed by the bidder should be those that WisDOT can reasonably expect a bidder to take to actively and aggressively obtain DBE participation sufficient to meet the DBE contract goal. The Department will only approve demonstration of good faith effort if the bidder documents the quality, quantity, and intensity of the variety of activities undertaken that are commensurate with expected efforts to meet the stated goal.

The Department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort activity. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

a. Solicitation Guidance for Prime Contractors:

- (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use WisDOT-approved DBE outreach tools, including the UCP DBE Directory and the Bid Express Small Business Network to foster DBE participation on all applicable contracts.
- (2) As needed, request assistance with DBE outreach and follow-up by contacting the Department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Phone numbers are (414) 438-4584 and/or (608) 267-3849; Fax: (414) 438-5392; E-mail: DBE_Alert@dot.wi.gov
- (3) Participate in and document a substantive conversation with at least one DBE firm per Let, to discuss questions, concerns, and any other contract related matters that may be applicable to the DBE firm. Guidelines for this conversation are provided in Appendix A of ASP-3.
- (4) Request quotes by identifying potential items to subcontract and solicit. In their initial contacts, contractors are strongly encouraged to include a single page, detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix B.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE firms to do work in a prime contractor's area of specialization.

- i. Solicit quotes from certified DBE firms who match possible items to subcontract using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which quotes are being sought to DBE_Alert@dot.wi.gov
- ii. Acceptable outreach tools include SBN (Small Business Network, see Appendix C): <https://www.bidx.com/wi/main>, postal mail, email, fax, and phone.
 - a. Contractors must ask DBE firms for a response in their solicitations. See *Sample Contractor Solicitation Letter*, Appendix B. This letter may be included as an attachment to the sub-quote request.
 - b. Solicit quotes at least 10 calendar days prior to the letting date to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.
 - c. A follow up solicitation should take place within 5 calendar days of the letting date. Email and/or SBN are the preferred method for the solicitation.
- iii. Upon request, provide interested DBE firms with adequate information about plans, specifications, and the requirements of the contract by letter, information session, email, phone call, and/or referral.
- iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit, or insurance if requested.
- v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
 - a. Email to all prospective DBE firms in relevant work areas
 - b. Phone call log to DBE firms who express interest via written response or call
 - c. Fax/letter confirmation
 - d. Signed copy of record of subcontractor outreach effort

b. Guidance for Evaluating DBE quotes

- (1) Quote evaluation practices required to evaluate DBE quotes:
 - i. Reasonable Price: Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price. See 49 CFR Part 26, Appendix A. IV.D(2).
- (2) Documentation submitted by the prime of the following evaluation is required to evaluate DBE quotes by contractors:
 - i. Evaluation of DBE firm's ability to perform "possible items to subcontract" using legitimate reasons, including but not limited to, **a discussion** between the prime and DBE firm regarding its capabilities prior to the bid letting. If lack of capacity is the reason for not utilizing the DBE firm's quote, the prime is required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area indicated by the NAICS code(s) listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
 - a. In striving to meet an assigned DBE contract goal, contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
 - b. Additional evaluation - Evaluation of DBE quotes with tied bid items. Typically, this type of quoting represents a cost saving but is not clearly stated as a discount. Tied quotes are usually presented as an 'all or none' quote. When non-DBE subcontractors submit tied bid items in their quotes, the DBE firm's quote may not appear competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples:

- i Compare bid items common to both quotes, noting the reasonableness in the price comparison.
- ii Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.

See Appendix D – *Good Faith Effort Evaluation Measures* and Appendix E - *Good Faith Effort Best Practices*.

- c. Requesting Good Faith Effort Evaluation** At the time of bid- if the DBE goal is not met in full, the prime contractor must indicate they will file form DT1202- Documentation of Good Faith Effort within 24-hours of bid submission. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. Supporting documentation for the DT1202 is to include the following:
- (1) Solicitation Documentation: The names, addresses, email addresses, and telephone numbers of DBE firms contacted along with the dates of both initial and follow-up contact; electronic copies of all written solicitations to DBE firms. A printed copy of SBN solicitation is acceptable.
 - (2) Selected Work Items Documentation: Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.
 - (3) Documentation of Project Information provided to interested DBEs: A description of information provided to the DBE firms regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE firm.
 - (4) Documentation of Negotiation with Interested DBEs: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts.
 - (5) Documentation of Sound Reasoning for Rejecting DBEs and copies of each quote received from a DBE firm and, if rejected, copies of quotes from non-DBEs for same items.
 - (6) Documentation of Assistance to Interested DBEs- Bonding, Credit, Insurance, Equipment, Supplies/Materials
 - (7) Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

If the Good Faith Effort documentation is deemed adequate, the request will be approved and the DBE office will promptly notify the Prime Contractor and Bureau of Project Development.

If the DBE Office denies the request, the Prime Contractor will receive written correspondence outlining the reasons. The Department encourages the Prime Contractor to communicate with DBE staff to clarify any questions related to meeting goals and/or contractor demonstration of good faith efforts.

If the contract is awarded, the Prime Contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved DBE Commitment. No contractor, prime or subsequent tier, shall be paid for completing work assigned to a DBE subcontractor on an approved DBE Commitment unless WisDOT has granted permission for the reduction, replacement, or termination of the assigned DBE in writing. If a prime contractor or a subcontractor on any tier uses its own forces to perform work assigned to a DBE on an approved DBE Commitment, **they will not be paid for the work**. Any changes to DBE Commitment after the approval of the DBE Commitment must be reviewed and approved by the DBE Office prior to the change (see Section 9).

Additional resources for demonstrating and tracking good faith effort can be found on the “Contracting with a DBE” webpage in the [ASP-3 and Good Faith Effort Guidance](#) section.

4. Bidder's Documentation of Good Faith Effort Evaluation Request Appeal Process

A bidder can appeal the Department's decision to deny the bidder's demonstration of Good Faith Effort through Administrative Reconsideration. The bidder must provide a written justification refuting the specific reasons for denial as stated in the Department's denial notice. The bidder may meet in person with the Department if so requested. Failure to appeal within 5 business days after receiving the Department's written notice denying the request constitutes a forfeiture of the bidder's right of appeal. Receipt of appeal is confirmed by email date stamp or certified mail signed by WisDOT staff. A contract will not be executed without documentation that the DBE provisions have been fulfilled.

The Department will appoint a representative who did not participate in the original good faith effort determination, to assess the bidder's appeal. The Department will issue a written decision within 5 business days after the bidder presents all written and oral information. In that written decision, the Department will explain the basis for finding that the bidder did or did not demonstrate an adequate good faith effort to meet the contract DBE goal. The Department's decision is final.

5. Determining DBE Eligibility

Directory of DBE firms

- a. The only resource for DBE firms certified in the State of Wisconsin is the Wisconsin Unified Certification Program (UCP) DBE Directory. WisDOT maintains a current list of certified DBE firms at: <http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx>
- b. The DBE Program office is available to assist with contracting DBE firms:(608) 267-3849.
- c. DBE firms are certified based on various factors including the federal standards from the Small Business Administration that assigns a North American Industrial Classification (NAICS) Codes. DBE firms are only eligible for credit when performing work in their assigned NAICS code(s). If a DBE subcontractor performs work that is not with its assigned NAICS code, the prime contractor should contact the DBE Office to inquire about compatibility with the Business Development Program.

6. Counting DBE Participation

Assessing DBE Work

The Department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the UCP agencies. The Department only counts the value of the work a DBE actually performs towards the DBE goal. The Department assesses the DBE work as follows:

- a. The Department counts work performed by the DBE firm's own resources. The Department includes the cost of materials and supplies the DBE firm obtains for the work. The Department also includes the cost of equipment the DBE firm leases for the work. The Department will not include the cost of materials, supplies, or equipment the DBE firm purchases or leases from the prime contractor or its affiliate, with the exception of non-project specific leases the DBE has in place before the work is advertised.
- b. The Department counts fees and commissions the DBE subcontractor charges for providing bona fide professional, technical, consultant, or managerial services. The Department also counts fees and commissions the DBE charges for providing bonds or insurance. The Department will only count costs the program engineer deems reasonable based on experience or prevailing market rates.
- c. If a DBE firm subcontracts work, the Department counts the value of the work subcontracted to a DBE subcontractor.
- d. The contractor will maintain records and may be required to furnish periodic reports documenting its performance under this item.
- e. It is the Prime Contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.

- f. It is the Prime Contractor's responsibility to assess the DBE firm's ability to perform the work for which it is committing/contracting the DBE to do. Note that the Department encourages the Prime Contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.
- g. The Prime Contractor will inform the DBE office via email of all DBE subcontractors added to the project following execution of the contract. The Prime Contractor may omit submission of another form DT1506, but must submit signed Attachment A forms for additional DBE firms.
- h. See Section 7 for DBE credit evaluation for Trucking and Section 8 for DBE credit evaluation for Manufacturers, Suppliers, and Brokers

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, Attachment A" Email: DBE_Alert@dot.wi.gov

*Note: A sublet request is required for DBE work, regardless of subcontract tier, and also for reporting materials or supplies furnished by a DBE.

- Sublet Requests via form DT1925 or WS1925 are required for 1st Tier DBEs
- For all 2nd Tier and below notification of DBE sublet is indicated by the contractor entering them in CRCS

7. Credit Evaluation for Trucking

All bidders are expected to adhere to the Department's current trucking policy posted on the HCCI website at: <http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

The prime contractor is responsible for ensuring that all subcontractors including trucking firms, receive Form FHWA 1273: <https://www.fhwa.dot.gov/programadmin/contracts/1273/1273.pdf>

See Section 8 for Broker credit.

8. Credit Evaluation for Manufacturers, Suppliers, Brokers

The Department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The Department will count the material and supplies that a DBE firm provides under the contract for DBE credit based on whether the DBE firm is a manufacturer, supplier, or broker. Generally, DBE credit is determined through evaluation of the DBE owner's role, responsibility, and contribution to the transaction. Maximum DBE credit is awarded when the DBE firm manufactures materials or supplies. DBE credit decreases when the DBE firm solely supplies materials, and minimal credit is allotted when the DBE firm's role is administrative or transactional. It is the bidder's responsibility to confirm that the DBE firm is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506 or DBE Commitment submitted with the bid.

a. Manufacturers

- (1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.
- (2) If the materials or supplies are obtained from a DBE manufacturer, **100%** percent of the cost of the materials or supplies counts toward DBE goals.

b. Regular Dealers of Material and/or Supplies

- (1) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications

and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

- (2) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.
- (3) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:
 - i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.
 - ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.
- (4) When DBE suppliers are contracted, additional documentation must accompany the DBE Commitment and Attachment A forms. An invoice or bill-of-sale that includes names of the bidder and the DBE supplier, along with documentation of the calculations used as the basis for the purchase agreement, subcontract, or invoice. WisDOT recognizes that the amount on the Attachment A form may be more or less than the amount on the invoice per b.(1) above.
 - i. The bidder should respond to the following questions and include with submission of form DT1506 or the DBE Commitment entered with bid:
 - a. What is the product or material?
 - b. Is this item in the prime's inventory or was the item purchased when contract was awarded?
 - c. Which contract line items were referenced to develop this quote?
 - d. What is the amount of material or product used on the project?
- (5) Supplies purchased in **bulk** from DBE firms at the beginning of the season may be credited to current contracts if submitted with appropriate documentation to the DBE office.
 - i. To ensure that the appropriate credit is assigned, follow the procedure below:
 - a. When DBE suppliers are contracted for bulk supply or commodity purchases, an invoice or bill-of-sale that includes names of the contractor and the DBE supplier should be submitted to the DBE Office via eSubmit (preferred during letting) or the DBE_Alert email box. The supply/commodity credit may be applied during the federal fiscal year (October- September) in which the purchase was made.
 - b. When the contractor intends to apply the credit to a particular project, submit a copy of the original invoice, documentation of the calculations for supplies/commodities to be used on the project, and an Attachment A. Indicate on the Attachment A:
 - c. This supply/commodity is in the prime's inventory or pre-paid in case of commodities
 - d. The full value of the original invoice submitted to the DBE Office, above in (1)
 - e. The amount of material or product used on this project
 - f. Fuel estimate listed on Attachment A will be recorded as a deduction from the full fuel purchase amount shown on the invoice
 - ii. DBE Office Process (Applies only to bulk purchases)
 - a. Supply/Commodity commitment is received
 - b. Engineer verifies amount listed on invoice and enters the full amount into spreadsheet
 - c. The amount of credit applied for each project is updated on the spreadsheet until the bulk purchase is exhausted
 - d. Engineer informs contractor when full amount of bulk purchase has been applied

c. Brokers, Transaction Expeditors, Packagers, Manufacturers' Representatives

- (1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit. However, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies, or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions.
- (2) Brokerage fees are calculated as **10%** of the purchase amount.
- (3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees, or transportation charges for the delivery of materials or supplies required on a job site.
- (4) Evaluation of DBE credit includes review of the contract need for the item/service, the sub-contract or invoice for the item/service, and a comparison of the fees customarily allowed for similar services to determine whether they are reasonable.

9. DBE Commitment Modification Policy (Formerly "DBE Replacement Policy")

a. Issuing a Contract Change Order

Any changes or modifications to the contract once executed are considered contract modifications and as such require a change order. In addition, the DBE office must provide consent for reduction, termination, or replacement of subcontractors approved on the DBE Commitment *in advance* of the modification for the prime contractor to receive payment for work or supplies. Additions to the DBE Commitment do not require advance notification of the DBE office. (see below e. DBE Utilization beyond the approved DBE Commitment)

b. Contractor Considerations

- (1) A prime contractor cannot modify the DBE Commitment through reduction in participation, termination, or replacement of a DBE subcontractor listed on the approved DBE Commitment without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.
- (2) If a prime contractor reduces participation, replaces, or terminates a DBE subcontractor who has been approved for DBE credit toward its contract, the prime is required to provide documentation supporting its inability to fulfill the contractual commitment made to the Department regarding the DBE utilization.
- (3) The Prime Contractor is required to demonstrate efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE subcontractor that was terminated, to the extent needed to meet the assigned DBE contract goal. When additional opportunity is available by contract modifications, the Prime Contractor must utilize DBE subcontractors that were committed to equal work items, in the original contract.
- (4) In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason, or is terminated from a contract, the Prime Contractor must undertake efforts to maintain its commitment to the assigned DBE goal.
- (5) The DBE subcontractor should communicate with the Prime Contractor regarding its schedule and capacity in the context of the contract. If the DBE firm anticipates that it cannot fulfill its subcontract, they will advise the Prime Contractor and suggest a DBE subcontractor that may replace their services and provide written consent to be released from its subcontract.
 - i. Before the Prime Contractor can request modification to the approved DBE Commitment, the Prime Contractor must:
 - a. Make every effort to fulfill the DBE Commitment by working with the listed DBE subcontractor to ensure that the firm is fully knowledgeable of the Prime Contractor's expectations for successful performance on the contract. Document these efforts in writing.

- b. If those efforts fail, provide written notice to the DBE subcontractor of the Prime Contractor's intent to request to modify the Commitment through reduction in participation, termination, and/or replacement of the subcontractor including the reason(s) for pursuing this action.
- c. Copy the DBE Office on all correspondence related to changing a DBE subcontractor who has been approved for DBE credit on a contract, including preparation and coordination efforts.
- d. Clearly state the amount of time the DBE firm has to remedy and/or respond to the notice of intent to replace/terminate. The DBE must be allowed five days from the date notice was received as indicated by email time stamp or signed certified mail, to respond, in writing. EXCEPTION: The Prime Contractor must provide a verifiable reason for a response period shorter than five days. For example, a WisDOT project engineer or project manager confirms that WisDOT has eliminated an item the DBE subcontractor was contracted for.
- e. The DBE subcontractor must acknowledge the contract modification with written response to the Prime Contractor and the DBE Office. If objecting to the subcontract modification, the DBE subcontractor must outline the basis for objection to the proposed modification, providing sound reasoning for WisDOT to reject the prime's request.

c. Request to Modify DBE Subcontracting Commitment

The written request referenced above may be delivered by email or fax. The request must contain the following:

- (1) Project ID number
- (2) WisDOT Contract Project Engineer's name and contact information
- (3) DBE subcontractor name and work type and/or NAICS code
- (4) Contract's progress schedule
- (5) Reason(s) for requesting that the DBE subcontractor be replaced or terminated
- (6) Attach/include all communication with the DBE subcontractor to deploy/address/resolve work completion

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, MODIFICATION" Email: DBE_Alert@dot.wi.gov + Project Engineer

WisDOT will review the request and any supporting documentation submitted to evaluate if the circumstance and the reasons constitute good cause for replacing or terminating the approved DBE subcontractor.

Good Causes to Replace a DBE subcontractor according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215, and 1,200 or applicable state law
- The prime has determined that the listed DBE subcontractor is not a responsible contractor
- The listed DBE subcontractor voluntarily withdraws from the project and provides written notice of its withdrawal
- The listed DBE subcontractor is ineligible to receive DBE credit for the type of work required

- A DBE firm owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract.

d. Evaluation and Response to the Request

WisDOT's timely response to the Prime Contractor's request for modification of the approved DBE Commitment will be provided to the prime and the WisDOT project engineer via email.

If WisDOT determines that the Prime Contractor's basis for reduction in participation, replacement, or termination of the DBE subcontractor is not consistent with the good cause guidelines, the DBE office will provide a response via email within 48-hours of receipt of request from the Prime Contractor as indicated by email time stamp. The communication will include: the requirement to utilize the committed DBE, actions to support the completion of the contractual commitment, a list of available WisDOT support services, and administrative remedies, including withholding payment to the prime, that may be invoked for failure to comply with federal DBE guidelines for DBE replacement.

The WisDOT contact for all actions related to modification of the approved DBE Commitment is the DBE Program Engineer who can be reached at DBE_Alert@dot.wi.gov or (414) 335-0413.

e. DBE Utilization beyond the approved DBE Commitment

When the prime or a subcontractor increases the scope of work for an approved DBE subcontractor or adds a DBE subcontractor who was not on the approved form DT1506 or DBE Commitment submitted with bid at any time after contract execution, this is referred to as voluntary DBE contract goal achievement. The contractor must follow these steps to ensure that the participation is accurately credited toward the DBE goal:

- (1) Forward a complete, signed Attachment A form to the DBE Office. A complete Attachment A includes DBE subcontractor contact information, signatures, subcontract value, and description of the work areas to be performed by the DBE. The DBE Office will verify the DBE participation and revise the DBE Commitment based on the email/discussion and the new Attachment A.
- (2) When adding to an existing DBE Commitment, submit a new Attachment A to the DBE Alert mailbox
- (3) OR Submit a final Attachment A to DBE Alert during the Finals Process when Compliance receives notice of "Substantially Complete"

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, New Attachment A" Email: DBE_Alert@dot.wi.gov

Special note on trucking

- DBE truckers added to the sublets in CRCS *will* be approved without DBE credit (You will see a "N" in CRCS instead of "Y")
- Prime Contractors may enter a "place holder" e.g. \$1000.00, for DBE Trucking in CRCS if the full amount of trucking is unknown for sublet purposes only
- The hiring contractor may obtain the Attachment A with DBE signature included but the **Prime Contractor** must sign the Attachment A before submitting
- DBE truckers need to be added to the DBE commitment once. If the DBE trucker is on the initial commitment (DT1506/E1506) there is no requirement to submit another Attachment A for that trucker for that contract.

10. Commercially Useful Function

- a. Commercially Useful Function (CUF) is evaluated after the contract has been executed, while the DBE certified firm is performing contracted work items.
- b. The Department uses Form DT1011, DBE Commercially Useful Function Review and Certification to evaluate if the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.

- c. A DBE firm is performing a commercially useful function if the following conditions are met:
 - (1) For contract work, the DBE is responsible for executing a distinct portion of the work and is carrying out its responsibilities by actually performing, managing, and supervising that work.
 - (2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.
- d. Offsite Hauling – when DBE truck will haul between a pit and plant or location other than the construction site associated with the commitment
 - (1) Indicate Offsite Hauling on Attachment A
 - (2) Discuss offsite hauling at weekly progress meetings with Project Engineer (PE)
 - (3) PE conducts spot checks of pits/plants to verify DBE truck is hauling and/or verifying hauling log
 - (4) Prime should be prepared to submit haul tickets, plant/pit tickets, timecards, and other pertinent documentation if requested by PE or DBE Office

11. Credit Evaluation for DBE Primes

WisDOT calculates DBE credit based on the amount and type of work performed by DBE certified firms for work submitted with required documentation. If the prime contractor is a DBE certified firm, the Department will only count the work that the DBE prime performs with its own forces for DBE neutral credit. The Department will also calculate DBE credit for work performed by any other DBE certified subcontractor, DBE certified supplier, and DBE certified manufacturer on the contract in each firm's approved NAICS code/work areas that are submitted with required documentation. Crediting for manufacturers and suppliers is calculated consistent with Section 8 of this document and 49 CFR Part 26.

12. Joint Venture

A joint venture is an association of a DBE firm and one or more other firms to carry out a single, for-profit business enterprise, for which the parties combine their property, capital, efforts, skills and knowledge, and in which the DBE is responsible for a distinct, clearly defined portion of the work of the contract and whose share in the capital contribution, control, management, risks, and profits of the joint venture are commensurate with its ownership interest. If a DBE performs as a participant in a joint venture, the Department will only credit the portion of the total dollar value of the contract equal to the portion of the work that the DBE performs with its own forces.

13. Mentor-Protégé

- a. If a DBE performs as a participant in a mentor-protégé agreement, the Department will credit the portion of the work performed by the DBE protégé firm.
- b. DBE credit is evaluated and confirmed by the DBE Office for any contracts on which the mentor-protégé team identifies itself to the DBE Office as a current participant of the Mentor-Protégé Program.
 - (1) DBE credit may only be awarded to a non-DBE mentor firm for using its own protégé firm for less than one half of its goal on any contract; and
 - (2) Not award DBE credit to a non-DBE mentor firm for using its own protégé firm for more than every other contract performed by the protégé firm.
- c. A DBE protégé firm may be eligible for conditional NAICS code extension for training with the mentor. Request permission from the DBE Office- Certification area.
- d. Refer to WisDOT's Mentor-Protégé guidelines for guidance on the number of contracts and amount of DBE credit allowed on WisDOT projects.

14. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE subcontractor, a prime contractor, and the regular dealer or materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE firm in cases where the DBE subcontractor and materials have been approved for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE firm is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE firm must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

- a. The Prime Contractor must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
 - (1) Request should be made when the DBE Commitment or the Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
 - (2) Approval/Permission must be granted prior to the issuance of any joint checks.
 - (3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
 - (4) The joint check for supplies must be strictly for the cost of approved supplies.
- b. The DBE subcontractor is responsible for furnishing and/or installing the material/work item and is not an 'extra participant' in the transaction. The DBE firm's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following:
 - (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price, and delivery of materials.
 - (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the [Application to Use Joint Checks](#) after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.
- c. The Prime contractor/payor acts solely as a guarantor.
 - (1) The Prime Contractor agrees to furnish the check used for the payment of materials/supplies under the contract.
 - (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractor's negotiated unit price.

15. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

Appendix A

Substantive Conversation Guidelines

The substantive conversation is critical to all bidders' demonstration of good faith effort to meet the DBE goal prior to bid opening. Relationship building between primes and subcontractors is crucial to DBE goal attainment. Responsible bidders seek to build rapport with potential DBE subcontractors to understand capacity, areas of expertise, and assess contracting feasibility. Bidders who compete for WisDOT contracts are specialty contractors responding to a growing and changing contract environment. Just as these specialists are responsible for care of the roads, they are likewise responsible for contributing to the health of the industry. The substantive conversation drives collaboration that will build industry health and capacity. The following is intended to provide guidance for such discussions but is not an exhaustive list. Contractors are encouraged to incorporate their existing strategies for cultivating business relationships as well.

Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released weeks prior to each Let)

1. Determine DBE subcontractor's interest in quoting
2. If response indicates inexperience with quoting- offer support/assistance to the DBE in understanding the industry including fundamentals a subcontractor needs to know, required reading and/or resources.
3. Assess their interest and experience in the road construction industry by asking questions such as:
 - Have you competed for other WisDOT contracts? Ratio of competed/to wins
 - Have you performed on any transportation industry contracts (locally or with other states)?
 - What the largest contract you've completed?
 - Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
 - Does this project fit into your schedule? Are you working on any contracts now?
 - Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
 - What region do you work in? Home base?
 - Which line items are you considering?
 - Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
 - Do you understand where your work fits in the project schedule, project phases?

Following Bid Opening- this discussion can happen at any time

1. After reviewing their quote, note the following in your discussion:
 - Does the quote look complete? Irregular?
 - Are there errors in the quote? Are items very high or very low?
 - In general, does the quote look competitive?
2. Questions and Advice for the bidder to share with the potential DBE subcontractor:
 - What line items would typically be in a competitive quote for a subcontractor of their specialty?
 - How many employees and what is their role/experience/expertise in your firm?
 - Do you have resources for labor (union member, family-based, community-resourced) and capital (banking relationship, bond agent, CPA)?
 - Where have you worked: cities, states, government, commercial, residential/private sector, etc. Explain similarities or differences.
 - Refer them to reliable, trusted, industry resources that can educate or connect them to relevant resources, education/certification resources, more appropriate contract opportunities.
 - Discussion about prime contract and subcontract liability, critical path items, contract quantities, schedule risks, and potential profit/loss (for upcoming known projects or in general).
 - Discussion of bonding, insurance, and overall business risk considerations.

Appendix B

Sample Contractor Solicitation Letter Page 1

(This sample is provided as a guide, not a formatting requirement)

DBE Solicitation - [Month] [Day], [Year] WisDOT Bid Letting

Attention all DBEs. [Prime Contractor] is actively seeking your quote for the [Month][Day], [Year] Bid Letting. [Prime Contractor] is considering bidding on the projects listed on page 2 as a prime contractor. Please see page 2 for instructions and the sub-contractable opportunities for each proposal.

Does [Prime Contractor] accept quotes in areas we might self-perform? Yes, we do! We support this federal rule and (if needed) we consider areas we might self-perform an opportunity to provide in the field assistance and training if we award your quote.

Where can DBEs find the plans, specifications & addenda? Please visit [Prime Contractor's] plan room [LINK] or on WisDOT's Highway Construction Contract Information HCCI website: [Wisconsin Department of Transportation Highway Construction Contract Information \(wisconsindot.gov\)](https://wisconsindot.gov/HighwayConstructionContractInformation). This same website can be checked for the contract status.

What should your quote include? All the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should also note items that you are DBE certified to perform, tied items, and any special terms. Please use page 2 as your cover sheet for your quote.

Do you have a question regarding bonding, credit, insurance, equipment, or supplies/materials? We welcome all DBE questions! Please call [Prime Contractor] and ask to speak with [Contact]. [Prime Contractor] can provide basic information as well as a referral to a trusted industry partner for insurance and bonding needs.

When are quotes due?

[Month] [Day], [Year] at [Time]. We accept quotes via SBN, email, or fax. Please make every effort to have your quotes in by this time or earlier. Quality check your quote so it includes the correct letting date, project ID, proposal number, unit price and extension.

Who can DBEs contact for questions, information, clarification or for a quote evaluation? [Project Manager Name] [Phone] [Email]. If you are quoting [Prime Contractor] for the first time, we encourage you to come meet with us in person to discuss the project. Our office hours are 7:30 a.m. – 5:00 p.m. On bid day, we are in the office by 6:30 a.m.

Why partner with [Prime Contractor]?

DBE partnership is a core part of [Prime Contractor's] mission. Including DBEs at the beginning of each project is essential in the success of each project. We consider DBEs to be important industry partners who bring dedication and knowledge at various stages during construction. We are proud to be an industry leader with our DBE partnership. Your success as a DBE is our success.

Sample Contractor Solicitation Letter Page 2*(This sample is provided as a guide, not a formatting requirement)***REQUEST FOR QUOTE****[Prime Contractor]****Letting Date: [Month] [Day], [Year]****Project IDs: 1234-56-00 (Proposal #1) & 1234-01-78 (Proposal #6)**

Please check all that apply:

- ☐ Yes, we will be quoting the projects & items listed below
- ☐ No, we are not interested in quoting on the letting or its items referenced below
- ☐ Please take our name off your monthly DBE contact list
- ☐ We have questions about quoting this letting. Please have someone contact me at this number:

Prime Contractor Contact: _____

DBE: _____

Phone: _____

Fax: _____

Email: _____

Please circle the proposals and items you will be quoting below and contact us with any questions

Proposal	1	6
County	Dane County	Crawford County
Clearing & Grubbing	X	X
Dump Truck Hauling	X	X
Curb/Gutter/Sidewalk	X	
Erosion Control Items		X
Excavation	X	X
Pavement Marking		X
Traffic Control	X	
Sawing	X	X
QMP, Base		X
Pipe Underdrain	X	
Landscape		X
Beam Guard	X	
Electrical	X	
Signs/Posts/Markers		X
Survey/Staking		X

Again, please make every effort to have your quotes into our office by **time deadline** prior to the letting date.

Sample Contractor Solicitation Email - Simplified

(This sample is provided as a guide, not a formatting requirement)

ATTENTION DBEs

- [Prime Contractor] specializes in municipal projects in the XX Region(s)
- We have successfully competed for and completed XX WisDOT projects over the past XX years
- Consider [Prime Contractor] your partner on WisDOT Projects

[Prime Contractor] is seeking your subcontractor quote for the XX/XX/20XX WisDOT bid letting on the below projects:

Project	Proposal	County	Region
1234-56-00	2	Dane	SW
1234-01-78	6	Crawford	SW

- o Please review the attachments [**attach Solicitation Letter**] and respond with your intent to quote (or not) along with the work items you are interested in performing and respond via fax or email by date. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Please include labor, equipment, material, and related bonding or insurance.
- o If you have any questions regarding bonding, credit, insurance, equipment and/or materials/supplies, please feel free to call [Prime Contractor] and ask for [Contact]. **(Include if your company is willing to answer these types of DBE questions)**
- o Plans and Specifications can be found: **WisDOT HCCI Website: List webpage where plans are located**
- o If you do choose to quote, please make every effort to have your quote into our office by time and date. Make sure the correct letting date, project number, unit price and extension are included in your quote.
- o Should you have questions regarding the mentioned project, please call our office at (414) 555-5555 and we will direct you to the correct estimator/project manager.
Our office hours are 7:30 a.m. - 5:00 p.m.

Thank you – we look forward to working with your company on this project!

Prime Contractor
Project Manager

Direct: 414-555-5555

Cell: 414-555-5556

Sample Contractor Solicitation Email to **non-DBE** WisDOT Subcontractors - Simplified

(This sample is provided as a guide, not a formatting requirement)

ATTENTION WisDOT SUBCONTRACTORS

[Prime Contractor] is considering bidding on the below projects for the XX/XX/20XX WisDOT Bid Letting:

Project	Proposal	County	Region	DBE Goal
1234-56-00	2	Dodge	SW	6.00%
1234-01-78	11	Adams	NC	3.00%
1234-00-99	20	Buffalo	NW	5.00%
1234-00-98	33	Portage	NC	6.00%

The above projects have DBE goals and [Prime Contractor] is committed to DBE inclusion with every project. As such, we are requesting:

- All WisDOT Subcontractors to **solicit and utilize** DBEs in your quotes.
- DBE participation can be achieved through purchasing materials from DBE suppliers, using DBE subcontractors and/or DBE trucking firms or any combination of these.
- If there is an opportunity to untie an item in your quote so a DBE can be utilized, please look for those opportunities as well.
- Your quote will be evaluated based on the amount of DBE participation your company is able to provide when compared to other quotes for the same work.

If you do choose to quote, please make every effort to have your quote into our office by **time and date**. Please submit all quotes to [Email]. Make sure the correct letting date, project number, unit price and extension are included in your quote.

Should you have questions regarding the mentioned project, the Project Manager contact is: [Name] [Phone Number] [Email]

Thank you for utilizing DBEs who are trusted industry partners with WisDOT projects.

Prime Contractor

Project Manager

Direct: 414-555-5555

Cell: 414-555-5556

Appendix C

Small Business Network (SBN) Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
 - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for later completion.
2. Create sub-quotes for the subcontracting community:
 - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
 - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
 - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE preferred request.
 - d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
 - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
 - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
 - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a "Good Faith" effort in reaching out to the DBE community.
 - b. Easily locate pre-qualified and certified small and disadvantaged businesses.
 - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
 - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs. The DBE will provide free SBN accounts to DBEs when requested. Use DBE_Alert@dot.wi.gov to request an account. **DBE firms can:**

1. View and reply to sub-quote requests from primes:
 - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
 - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
 - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes.
 - c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
 - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
 - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
 - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
 - c. Add attachments to a sub-quote.
 - d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
 - a. Receive a confirmation that your sub-quote was opened by a prime.
 - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
 - c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
 - a. If you are a contractor not yet subscribing to the Bid Express service, go to www.bidx.com and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.

Appendix D

Good Faith Effort Evaluation Measures *by categories referenced in DBE regulations*

Bidders must demonstrate that they took all necessary and reasonable steps to achieve the assigned DBE contract goal. For each contract, all bidders must submit documentation indicating the goal has been met or if falling short of meeting the assigned goal, must request a DBE Goal Waiver and document all efforts employed to secure DBE subcontractor participation on Form DT1202.

DBE staff analyze the bidder's documented good faith efforts to determine if action taken was sufficient to meet the goal. Sufficiency is measured contract-by-contract. WisDOT evaluates active and aggressive efforts, quality, quantity, scope, intensity, and appropriateness of the bidder's efforts as a scale of the principles of Good Faith outlined in 49 CFR Part 26, Appendix A. Additional emphasis is placed on the bidder's demonstration of timely submission of documentation and communication with DBE subcontractors, and business development initiatives undertaken to support DBE firm growth.

The following is a sample of good faith effort activities that are rated according to the accompanying rubric. Contractors are encouraged to identify additional activities that align with their business type(s).

- Personal, tailored solicitation to firms that specialize in work types planned or desired for subcontracting
- Follow up to initial solicitation via email or phone
- Substantive conversation including topics such as contract liability, critical path work items, schedule risks, and potential profit/loss
- SBN utilization including posting quotes
- Review and response to DBE quotes including provision of information about plans, specifications, and requirements as applicable
- Documentation requesting subcontractors support DBE goal by solicitation and inclusion of DBE subcontractor quotes
- Responsive and timely submission of organized documentation
- Analysis of number of DBE firms who do work types that you typically subcontract
- Analysis of number of DBE firms who reside in geographical areas where prime seeks work
- Analysis of firms who express interest in bidding/quoting including the number of firms who declined your solicitation
- Reference check of DBE subcontractor work or training (documentation of questions and response required)
- Number of different efforts undertaken to meet the assigned DBE goal as documented in accompanying Form DT1202
- Submission of all DBE quotes received matched with a variety of work to be performed by DBEs
- Number and names of DBE firms provided written advice, or referral to industry-specific business development resources
- Overall pattern of DBE utilization on all WisDOT contracts which may include contracting with municipalities
- Documentation of resources expended to meet assigned DBE goal (#of hours, staff titles, average pay rate, actions taken)
- Analysis of subcontractable work items to be completed by prime beyond prime contractor's 30%
- Risk analysis of work items that are typically in tied quotes that could be unbundled
- List of contract work items in smallest economically feasible units, identifying schedule impact
- Submission of a Gap Analysis identifying DBE skillset and/or industry needs
- Staff training in EEO and Civil Rights laws as documented in training logs
- Written Capacity Assessment completed with DBE firm documenting its ability to perform the work quoted
- DBE engagement efforts beyond simple solicitation that include a substantive discussion, initiated as early in the acquisition process as possible (*points added for each day prior to letting*)
- Outreach and marketing efforts with minority, women, and veteran-focused organizations at least 10 days prior to bid opening
- Active involvement in WisDOT's Business Development Program, TrANS training, facilitated networking efforts, workshops
- Customized teaching/training efforts for future opportunities with DBE subcontractor, contract specific and/or annually
- Introduction and reference provided for DBE subcontractor to a prime who has not previously contracted with the DBE firm
- Prime utilization of a DBE subcontractor the prime has not contracted with previously
- Written referral/recommendation to bond/insurance agents, manufacturer, supplier
- Documented efforts fostering DBE participation through administrative and/or technical assistance
- Evidence of negotiation with the DBE firm about current and future Let opportunities
- Recommendation of local and state services that support small business and access to opportunity: DOA, SBA, WEDC, WPI, etc.
- Advice on bonding, lines of credit, or insurance as required to complete the items quoted and contract requirements

GFE Evaluation Rubric – Phase 1 – Initial Review

DT1202	Examples	Rating	OBOEC Feedback
Solicitation Documentation	Identify all reasonable and available activities performed to solicit the interest of all certified DBEs who have capacity and ability to perform work on the project. <i>Such as: Updated solicitation letter and email, timely solicitation, and follow-up, and/or utilized various methods to communicate solicitation (ex: letter, email, publication, posting and/or website)</i>		
Selected Work Items Documentation	All work items are broken out into economically feasible units to facilitate DBE participation. <i>Such as: Selected work items are <u>specific</u> to each proposal and clearly identified in all solicitation(s)</i>		
Documentation of Project Information provided to Interested DBEs	Provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation. <i>Such as: Project information is clearly identified in all solicitation(s)</i>		
Documentation of Negotiation with Interested DBEs	Provide sufficient evidence demonstrating that good faith negotiations took place during the bid letting. <i>Such as: Documented attempts with DBEs or on behalf of DBEs to increase DBE participation</i>		
Documentation of Sound Reason for Rejecting DBEs	Provide sufficient evidence demonstrating that DBEs are rejected for sound reasons. <i>Such as: Detailed and thoughtful analysis that considers both the percentage and dollar difference when rejecting a DBE including past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, and other tangible factors.</i>		
Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials	Documented assistance in both solicitation(s) and outreach to DBEs.		
Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support	Effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well participation in activities that support DBE business development. <i>Such as: Variety of activities that translate into meaningful DBE participation</i>		
Documentation of other GFE activities	<i>Such as: Used DT1202 Excel Workbook, Diversity & Inclusion company policy, Mentor-Protégé participant, awarded neutral DBE after bid submission, included company GFE overview/strategy information and/or company website highlights DBE opportunities and participation</i>		
Overall Demonstration of GFE			

GFE EVALUATION RATING LEGEND – PHASE 1 – Initial Review

Documentation provided by bidder is evaluated and rated on the rubric. Bidders should include activities characterized by the following types of effort:

ACTIVE & AGGRESSIVE: Demonstrated through engaged and assertive activity

QUALITY: Demonstrated through essential character of conscientious and serious activity

QUANTITY: Demonstrated through a measurable number of activities

SCOPE & INTENSITY: Demonstrated through a rigorous approach to an appropriate and purposeful range of activities

TIMING: Demonstrated through engagement efforts beyond simple solicitation, initiated early in the process

GFE EVALUATION – PHASE 2 – Team Review

GFE Team completes:

- Review of activities included on the rubric
- Review of the intent to award and sound reasoning submitted by Prime
- Bid analysis to confirm if any bid submitted met the DBE goal
- Review average of other bidders DBE goal achievement
- Team review of combined efforts documented in Phase 1 and 2 constitute final GFE determination

Rating Scale:

- **GFE Approval:**
Bona Fide = 6 or more categories color coded green.
Genuine effort characterized by sincere and earnest activities – “Solicitation” and “Sound Reasoning” must be green
- **GFE Approval:**
Sufficient = 5 or more categories color coded green or yellow
Adequate effort documented with a variety of quality activities – “Solicitation” and “Sound Reasoning” must be green or yellow
- **GFE Denial:**
Pro Forma efforts = 4 or less categories color coded green or yellow. Perfunctory effort characterized by routine or superficial activities

Green = Exceeds expectations

Yellow = Meets expectations

Red = Areas in need of attention and/or absence of documentation

See OBOEC Rubric Analysis Feedback

Excerpt from Appendix A to 49 CFR Part 26:

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)(vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed

GFE RUBRIC ANALYSIS	
OBOEC DECISION	APPROVAL OR DENIAL
Prime Contractor	
Proposal	
Project	
Bid Letting	
DBE Goal Amount	
DBE Goal Amount Achieved	
Bid Analysis	
Goal %	Achieved %
Apparent Low Bidder	%
Bidder B	
Bidder C	
Average of OTHER Bidders (Not including Apparent Low Bidder)	
DBE Quotes Received	
DBE Quotes Awarded	
DBE Quote(s) Rejected	Rejected Quote Analysis
DBE Quote(s) Awarded	Awarded DBE Amount

Appendix E

Good Faith Effort Best Practices

This list is not a set of requirements; it is a list of potential strategies

Primes

- Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance.
- Participate in speed networking and mosaic exercises as arranged by DBE office.
- Host information sessions not directly associated with a bid letting.
- Participate in a formal mentor protégé or joint venture with a DBE firm.
- Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Facilitate a small group DBE ‘training session’ clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications, and communication methods.
- Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Quality of communication, not quantity creates the best results. Contractors should be thorough in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list and bid tabs at a minimum.
- Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation related projects of similar size and scope, firm expertise and staffing.
- Participate in DBE office assessment programs.
- Participate on advisory and mega-project committees.
- Sign up to receive the DBE Contracting Update.
- Consider membership in relevant industry or contractor organizations.
- Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the Department are the only ways to get work.

Appendix F

Good Faith Effort Evaluation Guidance

Appendix A of 49 CFR Part 26

I. When, as a recipient, you establish a contract goal on a DOT-assisted contract for procuring construction, equipment, services, or any other purpose, a bidder must, in order to be responsible and/or responsive, make sufficient good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.

II. In any situation in which you have established a contract goal, Part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, you have the responsibility to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made, based on the regulations and the guidance in this Appendix.

The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call. Determinations should not be made using quantitative formulas.

III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.

IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. (1) Conducting market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

(2) The bidder should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. The bidder should determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract.

D. (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

(2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

E. (1) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the bidder or prime contractor to accept unreasonable quotes in order to satisfy contract goals.

(2) A prime contractor's inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.

G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)(vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

VI. A promise to use DBEs after contract award is not considered to be responsive to the contract solicitation or to constitute good faith efforts.

[79 FR 59600, Oct. 2, 2014]

Appendix G
(SAMPLE) Forms DT1506 and DT1202

COMMITMENT TO SUBCONTRACT TO DBE

Wisconsin Department of Transportation

☐ Non-Traditional Project

Proposal #

County:

Letting Date:

Total \$ Value of

Prime Contract:

DBE Contract Goal:

DBF Goal Achieved:

[illegible]

Prime Representative Signature & Date

1

**COMMITMENT TO SUBCONTRACT TO DBE
ATTACHMENT A**

CONFIRMATION OF PARTICIPATION

Project I.D.:	Proposal Number:
Letting Date:	

Name of DBE Firm Participating in this Contract:	
Name of the Prime/Subcontractor who hired the DBE Firm: <i>(list all names of tiers if more than one)</i>	
Type of Work or Type of Material Supplied:	
Total Subcontract Value:	Total DBE Credit Value:

FOR PRIME CONTRACTORS ONLY: I certify that I made arrangements with the participating DBE firm to perform the type of work listed or supply the material indicated above for the subcontract value listed above.	Prime Contractor Representative's Signature
	Prime Contractor Representative's Name (Print Name)
	Prime Contractor (Print Company Name)
	Date

FOR PARTICIPATING DBE FIRMS ONLY: I certify that I made arrangements with the Prime Contractor or the Hiring Contractor to perform the type of work or supply the material indicated above for the subcontract value listed above. FOR DBE TRUCKING FIRMS ONLY: I certify that I will utilize, for DBE credit, only trucks listed on my WisDOT approved Schedule of Owned/Leased Vehicles for DBE Credit form and I will be utilizing the number of trucks as listed below.	Participating DBE Firm Representative's Signature	Date
	Participating DBE Firm Representative's Name (Print Name)	
	Participating DBE Firm (Print Company Name)	
	DBE Firm's Address:	

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

☐ Off site Hauling

**DOCUMENTATION OF GOOD FAITH EFFORT**Wisconsin Department of Transportation
DT1202 3/2020

Project ID XXXX	Proposal No. XXXX	Letting XXXX
Prime Contractor XXXX	County XXXX	
Person Submitting Document XXXX	Telephone Number XXXX	
Address XXXX	Email Address XXXX	

All bidders must undertake necessary and reasonable steps to achieve the assigned DBE contract goal per federal regulatory guidance at 49 CFR Part 26. Bidders use this form to document all efforts employed to meet the assigned goal as a record of contractor good faith efforts (GFE). Refer to ASP3 or 49 CFR Part 26 for guidance on actions that demonstrate good faith effort.

It is critical to list all efforts, attach documentation, and follow the instructions to complete this submission. Documentation of good faith effort includes copies of each DBE and non-DBE subcontractor quote submitted to the bidder for the same line items. Utilize the sample documentation logs to document and organize efforts.

Submit good faith effort documentation per ASP-3 guidelines.

Instructions: Provide a narrative description of all activities pursued to demonstrate good faith efforts, any corresponding documentation, and applicable explanation on separate pages. Include the following items organized in the order listed below.

1. Solicitation Documentation:

- a. **Purpose:** To identify all reasonable and available activities the bidder performed to solicit the interest of all certified DBEs who have the capacity and ability to perform work on the project. All solicitation efforts should begin as early as possible to ensure DBEs have ample time to respond and ask questions.
- b. **Action:** Identify and list all activities engaged in to solicit DBEs using all reasonable and available means such as written notice and follow-up communications, substantive conversations, pre-bid meetings, networking events, market research, advertising.

2. Selected Work Items Documentation:

- a. **Purpose:** To ensure that all work items are broken out into economically feasible units to facilitate DBE participation. This must occur even when you prefer to perform the work yourself.
- b. **Action:** Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.

3. Documentation of Project Information provided to Interested DBEs:

- a. **Purpose:** To provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.
- b. **Action:** Provide DBEs access to plans, specifications, and other contract requirements. Early solicitation allows ample opportunity to provide project information, links to Let advertisements, and substantive engagement with DBEs.

4.→ Documentation of Negotiation with Interested DBEs:

a.→ Purpose: To ensure that negotiations with interested DBEs were made in good faith providing evidence as to why agreements could not be reached for DBEs to perform work.

b.→ Action: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts. A bidder using good business judgment considers a number of factors in negotiating with all subcontractors, and the firm's price and capabilities in addition to contract goals are taken into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failing to meet the DBE goal as long as costs are reasonable. (see 49 CFR Part 26 Appendix A)

5.→ Documentation of Sound Reason for Rejecting DBEs:

a.→ Purpose: To ensure that bidders avoid rejecting DBEs as unqualified without sound reasons. Reasons for rejection must be based on thorough investigation of DBE capabilities.

b.→ Action: Provide sufficient evidence to demonstrate that DBE was rejected for sound reasons such as past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, other tangible factors.

6.→ Documentation of Assistance to Interested DBEs--Bonding, Credit, Insurance, Equipment, Supplies/Materials:

a.→ Purpose: To assist interested DBEs in obtaining bonds, lines of credit, insurance, equipment, supplies, materials, and other assistance or services.

b.→ Action: Assist interested DBEs in obtaining bonding, lines of credit or insurance, and provide technical assistance or information related to plans, specifications, and project requirements. Assist DBEs in obtaining equipment, supplies, materials or other services related to meeting project requirements (excluding supplies or equipment the DBE purchases from the prime).

7.→ Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support:

a.→ Purpose: To effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well as participation in activities that support DBE business development.

b.→ Action: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Return to:
 Wisconsin Department of Transportation
 DBE Program Office
 PO Box 7965
 Madison, WI 53707-7965
 DBE_Alert@dot.wi.gov

I certify that I have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses and as specified in Additional Special Provision 3 (ASP-3).

I certify that the information given in the Documentation of Good Faith Efforts is true and correct to the best of my knowledge and belief.

I further understand that any willful falsification, fraudulent statement, or misrepresentation will result in appropriate sanctions, which may involve debarment and/or prosecution under applicable state (Trans 504) and Federal laws.

		(Bidder/Authorized Representative Signature)

		(Print Name)

		(Title)

Good Faith Effort--Sample Documentation Logs

The sample logs below are provided as guides rather than exhaustive list. See ASP3, Appendix A for additional examples of demonstrable good faith efforts. Attach documentation for each activity listed.

Acceptable forms of documentation include copies of solicitations sent to DBEs, notes from substantive conversations and negotiations with DBEs, copies of advertisements placed, email communications, all quotes received from DBEs and from all subcontractors who were considered alongside DBE quotes, proof of attendance at applicable networking events; flyers for events or workshops for DBEs offered by the prime, and other physical records of good faith efforts activities.

SOLICITATION LOG

Date	Activity	Name of DBE Solicited	Follow-up
4/1/2020	Sent May-Let solicitation	Winterland Electric	Spoke with Mark Winterland on 4/15/20 to ask if he would quote.

SELECTED WORK ITEMS SOLICITED LOG

Work Type	DBE Firm	Contact Person	Date	Contact Mode
Pavement Marking	ABC Marking	Leslie Lynch	4/1/2020	Email; phone
	#1 Marking Co.	Mark Smart	4/1/2020	Email; left VM
Electrical	Winterland Electric	Tabitha Tinker	4/3/2020	Email, left VM
	Superstar Wiring	Jose Huascar	4/3/2020	Email; phone

INFORMATION PROVIDED LOG

Request Date	DBE Firm	Information Requested & Provided	Response Date
4/1/2020	Winterland Electric	Requested info on electrical requirements; provided plan and link to specs	4/3/2020
4/21/2020	Absolute Construction	Wanted to know how and when supplies are paid for by WisDOT; referred to spec that covers stockpiling	4/21/2020

NEGOTIATIONS LOG

Date	DBE Firm	Contact Name	Work Type	Quotes Rec'd?	Considered for project?	If not selected, why?
4/12/2020	ABC Landscape	John Dean	Erosion Control	Yes	No	Cannot perform all items
4/17/2020	Wild Ferns	Sandy Lynn	Erosion Control	Yes	Yes	
4/20/2020	#1 Marking	Mark Smart	Electrical	Yes	Yes	

ASSISTANCE LOG

Date	DBE Firm	Contact Person	Assistance Provided
4/1/2020	ABC Sawing	Jackie Swiggle	Informed DBE on how to obtain bonding
4/17/2020	Supreme Construction	Winston Walters	Provided contact for wholesale supply purchase

OUTREACH & BUSINESS DEVELOPMENT LOG

Date	Agency/Organization Contacted	Contact Person	Assistance Requested
4/1/2020	Women in Construction	LaTonya Klein	Contact information for woman-owned suppliers
4/28/2020	WBIC	Sam Smith	Asked for information to provide to DBE regarding financing programs through WBIC

Official Form DT1202 can be found here: <https://wisconsindot.gov/pages/global-footer/formdocs/default.aspx>

ADDITIONAL SPECIAL PROVISION 4

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor is not allowed to withhold retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Acceptance and Final Payment

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work.

ADDITIONAL SPECIAL PROVISIONS 5 FUEL COST ADJUSTMENT

A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

C Fuel Index

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is \$4.70 per gallon.

D Computing the Fuel Cost Adjustment

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

- (1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.
- (2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.
- (3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.
- (4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \frac{CFI}{BFI} - 1 \times Q \times BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

E Payment

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.

Additional Special Provision 6 (ASP-6)
Modifications to the standard specifications

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Additional Special Provision 6 (ASP-6)
Modifications to the standard specifications

Make the following revisions to the standard specifications.

104 Scope of Work

104.2.2 Issuing Change Orders

Replace subsection 104.2.2 with the following and rearrange to add a 104.2.2.7 effective with the February 2026 letting.

104.2.2.1 Change Orders for Differing Site Conditions

- (1) During the progress of the work, if one or more of the following differing conditions are encountered at the site, the party discovering the condition must promptly notify the other party of the specific condition before further disturbing the site and before further performing the affected work.
 1. A subsurface or latent physical condition, differing materially from those indicated in the contract.
 2. An unknown physical condition of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work specified in the contract.
- (2) If the contractor discovers the differing condition, the contractor shall provide oral notification as specified in 104.3.2, of the specific differing condition before further disturbing the site and before further performing the affected work.
- (3) The project engineer will investigate the conditions. If the project engineer determines the conditions materially differ and cause an increase or decrease in the cost, time, or both, required to perform the work under the contract, the project engineer will adjust the contract price, time, or both, and modify the contract in writing accordingly. The project engineer will respond to the contractor as to whether or not an adjustment is warranted. The project engineer will follow the contractor notification procedures specified in 104.3.
- (4) The department will not allow a contract adjustment unless the contractor has provided the required notice as specified in 104.3.

104.2.2.2 Change Orders for Engineer-Ordered Suspensions

- (1) If the project engineer suspends or delays the performance of all or any portion of the work in writing for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry) and the contractor believes that additional payment, contract time, or both, is due because of the suspension or delay, the contractor shall notify the engineer as specified in 104.3.
- (2) The project engineer will evaluate the contractor's request. If the project engineer agrees that the cost, time, or both, required for the performance of the contract has increased due to the suspension or delay and the suspension or delay was caused by conditions beyond the control of and not the fault of the contractor, its suppliers, or subcontractors at any approved tier, and not caused by weather, the project engineer will make an adjustment and modify the contract in writing accordingly. The project engineer will respond to the contractor as to whether or not an adjustment is warranted as specified in 104.3.6.
- (3) The project engineer will not consider a contract adjustment unless the contractor submits the request for adjustment within the time specified above.
- (4) The project engineer will not consider a contract adjustment under this clause to the extent that the performance would have been suspended by any other cause, or for which an adjustment is provided or excluded under any other term or condition of this contract.

104.2.2.3 Change Orders for Altered Work

- (1) If original contract work is altered from what is included in the contract, the department will adjust the contract if the character of the work as altered differs materially in kind or nature from that involved or included in the original contract.
- (2) Before performing altered work, reach agreement with the project engineer for any price adjustments as specified in 109.4. If the project engineer does not agree that the work has significantly changed and a price adjustment is justified, follow the notification procedures as specified in 104.3.
- (3) If the alterations do not significantly change the character of the work under the contract, the department will not adjust the contract.

104.2.2.4 Change Orders for Quantity Variations

- (1) If all original contract work for a bid item is completed as required in the contract, and the measured quantity for that bid item varies from the contract quantity, the department will adjust the contract if the department or contractor demonstrates that the quantity variation affects the contractor's unit cost to perform the work and

meets one of the criteria below. If the quantity variation does not significantly change the character of the work under the contract, the department will pay for the work at the contract price.

1. The quantity of a major bid item, as defined in 101.3, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity applies only to that portion in excess of 125 percent of the original contract bid item quantity, or in case of a decrease below 75 percent, to the work actually performed.
2. The quantity of a minor bid item is increased to become a major bid item. An adjustment in the contract unit price for that bid item applies only to the quantity of that bid item having a contract value as follows:
 - Original Contract < \$8M: In excess of 6.25 percent of the original contract.
 - Original Contract >= \$8M: In excess of \$500,000.
3. The quantity of a minor bid item that is part of an approved subcontract and that exceeds 10 percent of the original value of that subcontract is decreased more than 50 percent from the original contract quantity for that bid item. Either party to the contract may submit a request for a revision to the contract unit price for that bid item. The department's total payment for the final reduced quantity will not exceed 75 percent of the original contract quantity at the contract price.
4. The quantity of a minor bid item that is part of an approved subcontract and that exceeds 10 percent of the original value of that subcontract is increased more than 50 percent from the original contract quantity for that bid item and which as increased does not qualify for adjustment as a major bid item. Either party to the contract may submit a request to the other for a revision of the contract unit price for that quantity of the bid item that is in excess of 125 percent of the original contract quantity.

104.2.2.5 Change Orders for Extra Work

- (1) The department has the right to direct extra work not required in the original contract, as defined in 101.3.
- (2) The engineer will determine payment for extra work as specified in 109.4.

104.2.2.6 Change Orders for Eliminated Work

- (1) The department has the right to partially eliminate or completely eliminate work the project engineer finds to be unnecessary for the project. If the project engineer partially eliminates or completely eliminates work, the project engineer will issue a change order for a fair and equitable amount as specified in 109.5.

104.2.2.7 Change Orders for Revisions to Contract Time

- (1) The department will issue a change order to revise the contract time as specified in 108.10.

104.6 Roadway Maintenance and Traffic Control

104.6.1.2.3 Drop-Off Protection

Replace subsection with the following effective with the November 2025 letting.

- (1) Eliminate vertical drop-offs greater than 2 inches and edge slopes steeper than 3:1 between adjacent lanes open to traffic.
- (2) If the roadway remains open to through traffic during construction and a greater than 2-inch drop-off occurs within 3 feet or less from the edge of the traveled way, eliminate the drop-off within 48 hours after completing that day's work. Provide aggregate shoulder material compacted to a temporary 3:1 or flatter cross slope from the surface of the pavement edge.
- (3) Unless the engineer allows otherwise address drop-offs when they exist greater than 3 and less than 8 feet from the travelled way as follows:
 - Delineate vertical drop-offs 2 inches or greater and edge slopes steeper than 3:1 with drums, barricades, and signs, by the end of the workday.
 - Eliminate vertical drop-offs 2 inches or greater and edge slopes steeper than 3:1 within 72 hours or before a weekend or holiday whichever comes first.
 - Eliminate or use temporary concrete barrier to protect vertical drop-offs 4-inches or greater after 72 hours or before a weekend or holiday whichever comes first.
- (4) If a 4-inch or greater vertical drop-off or an edge slope steeper than 3:1 exists greater than 8 and less than 15 feet from the traveled way, delineate that drop-off or edge slope with drums, barricades, and signs by the end of the workday.
- (5) If a 12-inch or greater vertical drop-off exists greater than 8 and less than 15 feet from a traveled way with a posted speed limit of 55 mph or greater, eliminate or use temporary concrete barrier to protect that drop-off within 72 hours or before a weekend or holiday whichever comes first.

104.6.1.2.4 Hazard Protection on Roads Open to All Traffic

Replace subsection with the following effective with the November 2025 letting.

- (1) On roads open to all traffic; conform to the following construction clear zone requirements:

- Posted speeds 45 mph or less: within 8 feet of the travelled way.
 - Posted speeds from 45 mph to 55 mph inclusive: within 10 feet of the travelled way.
 - Posted speeds above 55 mph: within 15 feet of the travelled way.
- (2) Remove all construction debris, stored materials, and equipment not in use from the construction clear zone; or if the engineer allows, delineate and shield with concrete barrier.
- (3) Delay removal of existing permanent roadside safety devices until necessary. When located within the construction clear zone and not shielded by concrete barrier, use temporary traffic control drums to delineate bridge abutments, concrete barrier blunt ends, sign bridge foundations, drainage structures, and slopes exposed by removing permanent protective measures.
- For exposed bridge abutments, concrete barrier blunt ends, sign bridge foundations, and drainage structures, eliminate the need for delineation within 5 calendar days.
 - For exposed slopes steeper than 3:1, eliminate the need for delineation within 14 calendar days, or duration approved by the engineer.

105 Control of the Work

105.13 Claims Process for Unresolved Changes

Replace subsection with the following effective with the February 2026 letting.

105.13.3 Submission of Claim

- (1) Submit the claim to the project engineer as promptly as possible following the submission of the Notice of Claim. If the contractor does not submit the claim prior to the earlier of the following dates, the department will deny the claim:
1. 120 calendar days from the date of the Notice of Claim.
 2. The end of the time allowed under 109.7 for the contractor to respond in writing to the engineer issued semi-final estimate.
- (2) The department will not accept the submission of a claim until the resolution process in 104.3 has been completed and the contractor makes no further requests to submit updated information that may affect the region's final decision.

107 Legal Relations and Responsibility to the Public

Add section 107.27 (Drones or Unmanned Aircraft Systems (UAS)) effective with the November 2024 letting.

107.27 Drones or Unmanned Aircraft Systems (UAS)

107.27.1 Licensing and Compliance

Add paragraph 107.27.1(5) to the information included with the November 2024 ASP-6, effective with the February 2026 letting.

- (1) Obtain and possess the necessary Federal Aviation Administration (FAA) licenses and certifications to operate drones commercially (<https://www.faa.gov/uas>).
- (2) Comply with all FAA regulations, airspace restrictions, and local laws. Operators of small drones that are less than 55 pounds for work or business must follow all requirements as listed in Title 14, Chapter 1, Subchapter F, Part 107 of the Code of Federal Regulations (14 CFR) and obtain a remote pilot certificate (https://www.faa.gov/uas/commercial_operators).
- (3) Comply with Wisconsin State Statute 942.10. Limit operations to the specific approved purpose and employ reasonable precautions to avoid capturing images of the public except those that are incidental to the project.
- (4) Provide copies of waivers required for specific project conditions to the engineer prior to any flight.
- (5) UAS and UAS components are required to be compliant with federal guidelines outlined in the American Security Drone Act of 2023 (ASDA) and the OMB memorandum M-26-02.

107.27.2 Flight Approval, Safety, and Incident Reporting

- (1) Submit information in 107.27.2(2) to obtain written drone flight approval from the engineer at least 3 business days prior to operating a drone within the right-of-way. Do not operate a drone within the right-of-way unless approved by the engineer.
- (2) Drone flight application for review and approval must include:
- UAS pilot information and qualifications, images of certification
 - UAS drone information and FAA tail numbers
 - Max/ Min allowable flight parameters (weather)
 - Specifics of flight mission: capture scope

- Estimated flight duration
 - Pre-flight checklist
 - Site-specific parameters
 - Notification protocols - Federal/Local/Agency/Owner/Responsible in Charge
 - Confirmation and verification of approved operators and hardware
 - Flight plan map diagram (including launch and landing location)
 - FAA-Airspace flight map classification and confirmation with graphics
 - UAS incident management protocol
- (3) If contractor is requesting multiple types of the same flight, a simplified request can be submitted listing weekly flight plan.
- (4) Safety measures must include but are not limited to:
- Regular training and updates on drone regulations are required and must be provided upon request.
 - Drones must be operated in accordance with safety guidelines, including maintaining a safe distance from people, structures, vehicles, etc.
 - Conduct a pre-flight safety assessment, considering weather conditions, airspace restrictions, and potential hazards.
 - Emergency procedures (e.g., drone malfunction, loss of control) must be documented and followed.
 - All incidents must be reported to the engineer.
- (5) If the drone has an incident during flight, report the following to the engineer:
- Incident background and details.
 - FAA (14 CFR 107.9) and NTSB (49 CFR 870) notification protocol.
 - Contractor internal notification protocol.

107.27.3 Insurance Requirements

- (1) Maintain drone liability insurance with the following limits.
1. For drones weighing 10 pounds or less, a liability policy with a minimum limit of \$1,000,000.00 is required.
 2. For drones weighing more than 10 pounds and less than or equal to 20 pounds, a liability policy with a minimum limit of \$2,000,000.00 is required.
 3. For drones weighing more than 20 pounds, notify engineer and department will determine appropriate liability policy coverage levels based on size, use, location, and other risk factors.

305 Dense Graded Base

305.3.3.3 Shoulders Adjacent to Asphaltic Pavement or Surfacing

Replace subsection with the following effective with the November 2025 letting.

- (1) If the roadway is closed to through traffic during construction, construct the aggregate shoulders before opening the road.
- (2) If the roadway remains open to through traffic during construction, conform as specified in 104.6.1.2.3.
- (3) Provide and maintain signing and other traffic protection and control devices, as specified in 643, until completing shoulder construction to the required cross-section and flush with the asphaltic pavement or surfacing.

310 Open-Graded Base**310.2 Materials**

Replace paragraph (2) with the following effective with the November 2025 letting.

- (2) The contractor may substitute material conforming to the gradation requirements for crushed aggregate specified in table 310-01 if that material conforms to the fracture requirements for open-graded crushed gravel specified in 301.2.4.5.

TABLE 310-01 COARSE AGGREGATE (% passing by weight)**AASHTO No. 67 ^[1]**

SIEVE	COARSE AGGREGATE (% PASSING by WEIGHT) AASHTO No. 67
2-inch	-
1 1/2-inch	-
1-inch	100
3/4-inch	90 - 100
1/2-inch	-
3/8-inch	20 - 55
No. 4	0 - 10
No. 8	0 - 5
No. 16	-
No. 30	-
No. 50	-
No. 100	-
No. 200	-

^[1] Size according to AASHTO M43.

415 Concrete Pavement**415.3.16.4.1.2 Magnetic Pulse Induction**

Replace subsection with the following effective with the November 2025 letting.

- (1) The department will measure thickness within 10 business days of paving. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.
- (2) The department will establish a project reference plate at the start of each paving stage. The department will notify the contractor of project reference plate locations before testing. The department will measure the project reference plate before each day of testing.
- (3) If the random plate test result falls within 80 to 50 percent pay range specified in 415.5.2, the department will measure the second plate in that unit. The department will notify the contractor immediately if the average of the 6 readings fall within the 80 to 50 percent pay range.
- (4) If an individual random plate test result is more than 1 inch thinner than contract plan thickness, the pavement is unacceptable. Department will determine limits of unacceptable pavement by performing the following:
 - The engineer will test each consecutive plate stationed ahead and behind until the thickness test result is plan thickness or greater.
 - The engineer will direct the contractor to core the hardened concrete to determine the extent of the unacceptable area. In each direction, the contractor shall take cores at points approximately 20 feet from the furthest out of specification plate towards the plate that is plan thickness of greater. Once a core is within 80 to 100 percent pay range, the coring is complete and the limits of unacceptable pavement extend from the stationing between the core test results of 80 to 100 percent payment, inclusive of all unacceptable core and plate test results.
 - Perform coring according to WTM T24. The department will evaluate the results according to AASHTO T148
 - Fill core holes with concrete or mortar.

416 Concrete Pavement - Repair and Replacement**416.2 Materials****416.2.1 General**

Replace paragraph (3) with the following effective with the November 2025 letting.

- (3) The contractor may use accelerating admixtures for concrete placed under SHES bid items as follows:
1. If using calcium chloride,
 - AASHTO M144, type S as grade N1 or grade N2, class A.
 - AASHTO M144, type L in a concentration of approximately 30 percent for premixed solutions.
 2. If using non-chloride accelerators, conform to:
 - AASHTO M194, type C accelerating admixtures.
 3. Do not exceed the manufacturer's recommended maximum dosage.
 4. If the engineer requests, provide a written copy of the manufacturer's dosage recommendations.

416.2.4 Special High Early Strength Concrete Pavement Repair and Replacement**416.2.4.1 Composition and Proportioning of Concrete**

Add paragraph (4) to subsection effective with the November 2025 letting.

- (4) The contractor may use pre-packaged horizontal rapid set concrete patch material from the APL for partial and full-depth pavement repairs instead of specified grades of concrete.

506 Steel Bridges**506.3.12.3 High-Strength Bolts****506.3.12.3.1 Materials**

Replace subsection with the following effective with the November 2025 letting.

- (1) Install bolts according to AASHTO LRFD Bridge Construction Specifications, article 11.5.5, with the following exceptions:
1. If connections are assembled, install bolts with a hardened washer under the nut or bolt head, whichever is the element turned in tightening.
 2. If using oversized holes, 2 hardened washers are required, one under the bolt head and one under the nut.
 3. Bring the bolted parts into solid contact bearing before final tightening. Use not less than 25 percent of the total number of bolts in a joint to serve as fitting up bolts.
 4. For steel diaphragms on prestressed concrete bridges do the following:
 - 4.1. For steel-to-steel connections within diaphragms:
 - Tension by the turn-of-nut method.
 - 4.2. For steel-to-concrete girder connections:
 - No PIV or field rotational capacity (RoCAP) testing is required.
 - Tighten as the plan details specify.
- (2) Before fasteners are delivered to the site, provide documentation of rotational capacity testing in accordance with ASTM F3125, Annex A2, Rotational Capacity (RoCap) Test. The fasteners must be received in packages that match the fastener assembly combination as tested. If documentation of RoCap testing is not received; then perform this testing in the field prior to installation.
- (3) Install bolt, nut, and washer combinations from the same rotational-capacity lot.
- (4) Check galvanized nuts to verify that a visible dyed lubricant is on the threads and at least one bolt face.
- (5) Ensure that uncoated bolts are oily to the touch over their entire surface when delivered and installed.
- (6) Provide and use a Skidmore-Wilhelm Calibrator or an acceptable equivalent tension measuring device at each job site during erection. Perform pre-installation verification (PIV) testing in the field conforming to the procedures enumerated in department form DT2114 no earlier than 14 calendar days prior to permanent bolting. Submit 2 copies of form DT2114 to the engineer.
- (7) Prior to installation, ensure that the fastener condition has not changed due to accumulation of rust or dirt, weathering, mixture of tested assembly lots, or other reasons. If changes have occurred, including cleaning and re-lubricating of weathered bolts, the engineer will require re-qualification using RoCap testing in the field, for a minimum of two fastener assemblies of each combination to be used in permanent bolting, and PIV re-testing.

- (8) Additional RoCap or PIV tests are required whenever the condition of the fasteners or understanding of the bolting crew is in question by the Engineer. Do not allow permanent bolting until PIV testing is completed.
- (9) Tighten threaded bolts by the turn-of-nut method while holding the bolt head. Where clearance is an issue, the contractor may tighten the bolt head while holding the nut.
- (10) The contractor may use alternate tightening methods if the engineer approves before use.
- (11) The contractor may use a flat washer if the surface adjacent to and abutting the bolt head or nut does not have a slope of more than 1:20 with respect to a plane normal to the bolt axis. For slopes greater than 1:20, use smooth, beveled washers to produce parallelism.
- (12) Snug all bolts during installation according to AASHTO LRFD Bridge Construction Specifications, article 11.5.5.4.1.
- (13) Tighten each fastener to provide, if all fasteners in the joint are tight, at least the minimum bolt tension as follows:

TABLE 506-1 BOLT TENSION

BOLT SIZE	REQUIRED MINIMUM BOLT TENSION ^[1]
1/2-inch.....	12 kips
5/8-inch.....	19 kips
3/4-inch.....	28 kips
7/8-inch.....	39 kips
1-inch	51 kips
1 1/8-inch.....	64 kips
1 1/4-inch.....	81 kips
1 3/8-inch.....	97 kips
1 1/2-inch.....	118 kips

^[1] Equal to the proof load by the length measurement method as specified in ASTM F3125 for grade A35 bolts.

- (14) Do not reuse galvanized F3125 A325 bolts. The contractor may reuse uncoated F3125 A325 bolts, if the engineer approves, but not more than once. The department will not consider re-tightening previously tightened bolts that become loosened by the tightening of adjacent bolts as reuse.

506.3.19 Welding

Replace subsection title and text with the following effective with the November 2025 letting.

506.3.19.4 Welding Inspection

- (1) Inspect welding according to the current edition of AWS D1.5. Unless specified otherwise, test butt welds in main members by either the radiographic or the ultrasonic method.
- (2) Test fillet welds and groove welds not covered otherwise in main members in a non-destructive manner by the magnetic particle method according to ASTM E709, utilizing the yoke method. This includes, but is not limited to, a minimum of 12 inches in every 10 feet or portion thereof of each weld connecting web to flange, bearing stiffener to web or flange, framing connection bar to web or flange, and longitudinal stiffener to web or vertical bar.

506.3.31 Cleaning of Surfaces

506.3.31.2 Coated Surfaces

Replace subsection with the following effective with the November 2025 letting.

- (1) Blast clean structural steel and ferrous metal products to be coated as specified in 517.3.1.3.3.
- (2) Blast clean steel that will be encased in concrete to SSPC-SP 6 standards or cleaner.

506.3.32 Painting Metal

Replace subsection with the following effective with the November 2025 letting.

- (1) Unless the contract provides otherwise, apply 3 coats of paint to structural steel and ferrous metal products. Furnish and apply paints according to the epoxy system or as specified in the special provisions. The requirements for this system are set forth in 517.
- (2) For structural steel, including weathering steel, and miscellaneous metals that will be encased in concrete, paint as specified in 517.3.1.
- (3) For galvanized surfaces paint as specified in 517.3.1.
- (4) Use the 3-coat epoxy system to paint the end 6 feet of structural weathering steel at the abutments, the 6 feet on each side of piers, joints, downspouts, hinges, and galvanized bearings in contact with weathering

steel. Use a coat of brown urethane matching AMS Standard 595A: AMS-STD 20059. Apply one coat of zinc-rich paint to surfaces of expansion joint assemblies and other surfaces not in contact with the weathering steel but inaccessible after assembly or erection.

- (5) Do not paint structural steel to be welded before completing welding. If welding only in the fabricating shop and subsequently erecting by bolting, coat it after completing shop welding. Apply one coat of weldable primer or other engineer-approved protective coating to steel surfaces to be field welded after completing shop welding and shop fabrication. Protect machine-finished surfaces that do not receive a paint or galvanizing from contamination during the cleaning and painting process.
- (6) Upon fabrication and acceptance, coat pins and pinholes with a plastic or other engineer-approved coating before removing from the shop.
- (7) Mark members weighing 3 tons or more with their weights on areas that will be encased in concrete, or paint with a compatible paint on zinc-rich primer, or mark with soapstone on an epoxy-coated surface. Wait until material is dry, inspected, and approved for shipment before loading for shipment.

509 Concrete Overlay and Structure Repair

509.2 Materials

Replace subsection with the following effective with the November 2025 letting.

- (1) Furnish a neat cement bonding grout. Mix the neat cement in a water-cement ratio approximately equal to 5 gallons of water per 94 pounds of cement. Pre-packaged non-shrink grout from the APL may be used instead of site mixed or ready mixed grout.
- (2) Furnish grade E conforming to 501 for overlays.
- (3) Furnish grade C or E concrete conforming to 501 for surface repairs. The contractor may increase the slump for grade E concrete to a maximum of 4 inches. For vertical and overhead repairs, use pre-packaged vertical and overhead repair material from the APL unless a different material is approved by the engineer in writing.
- (4) Furnish grade C or E concrete conforming to 501 for joint repairs, curb repairs, and full-depth deck repairs; except as follows:
 1. The contractor may increase slump of grade E concrete to 3 inches.
 2. The contractor may use ready-mixed concrete.
- (5) Provide QMP for class II ancillary concrete as specified in 716 if using concrete mixtures conforming to 501.

513 Railing

513.2.3 Steel Railing

Replace subsection with the following effective with the November 2025 letting.

- (1) Furnish steel railing components as follows:

Structural steel	506.2.2
High strength bolts	506.2.5
Steel guardrail	614.2
Round structural steel tubing for steel pipe railing	ASTM A500 grade B
Structural steel tubing used with other steel railings	ASTM A500 grade B or C
- (2) Furnish a two-coat paint system from the APL for structure painting systems under paint - galvanized surfaces.

517 Paint and Painting

517.3.1.3.3 Blast Cleaning

517.3.1.3.3.2 Epoxy Coating System

Replace subsection with the following effective with the November 2025 letting.

- (1) Blast clean structural steel receiving this coating to a near-white finish according to SSPC-SP 10.
- (2) Solvent clean oil and grease on surfaces receiving this coating according to SSPC-SP 1 and blast clean to a near-white finish according to SSPC-SP 10.
- (3) Remove fins, tears, slivers, and burred or sharp edges present on any steel member, or that appears during blasting, by grinding then re-blast the area to a one to 2 mils surface shape.

-
- (4) If using abrasives for blast cleaning, use either clean dry sand, steel shot, mineral grit, or manufactured grit of a gradation that produces a uniform one to 2 mils profile as measured with a department-approved impregnated surface profile tape.
 - (5) Remove abrasive and paint residue from steel surfaces with a commercial grade vacuum cleaner equipped with a brush-type cleaning tool, or by double blowing. If using the double blowing method, vacuum the top surfaces of structural steel, including top and bottom flanges; longitudinal stiffeners, splice plates, and hangers after completing the double blowing operations. Ensure that the steel is dust free when applying primer. Apply the primer within 8 hours after blast cleaning.
 - (6) Protect freshly coated surfaces from later blast cleaning operations. Brush any blast damaged primed surfaces with a non-rusting tool, or if visible rust occurs, re-blast to a near white condition. Clean the brushed or blast cleaned surfaces and re-prime within the manufacturer's recommended time.
 - (7) When coating galvanized surfaces, ensure tie-coat adhesion by brush blasting the cleaned surface according to SSPC-SP7 to create a slight angular surface profile according to manufacturer's recommendations of 1 mil to 1.5 mils. Blasting must not fracture the galvanized finish or remove dry film thickness. For the tie- and top-coat, furnish an epoxy coating system from the APL for paint systems for galvanized surfaces.

517.3.1.3.5 Galvanizing

Add subsection effective with the November 2025 letting.

- (1) After fabrication, blast clean assemblies per SSPC-SP6 and galvanize according to ASTM A123.
-

526 Temporary Structures

526.3.4 Construction, Backfilling, Inspection and Maintenance

Replace subsection with the following effective with the November 2025 letting.

- (1) Construct temporary structures conforming to 500. Backfill conforming to 206.3.13 with structure backfill conforming to 210.2.
- (2) Temporary highway bridges open to traffic less than or equal to 24 months: inspect temporary bridges conforming to the National Bridge Inspection Standards (NBIS) and the department's Structure Inspection Manual (SIM) before opening to traffic. Perform additional inspections, as the department's SIM requires, based on structure type, condition, and time in service. Submit inspection reports on department form DT2007 to the engineer and electronic copies to the BOS Maintenance Section. Ensure that a department-certified qualified team leader performs the inspections.
- (3) Temporary highway bridges open to traffic greater than 24 months: complete additional inspections and inventory data collection per the NBIS and SIM within 27 months of the bridge being opened to traffic. Contact the Bureau of Structures to have a structure number assigned. Enter the inventory data and element level bridge inspection data in accordance with the SIM into WisDOT's Highway Structures Information System (HSIS) within 90 days of completing the field portion of the inspection. Continue to complete required inspections and data submittal at intervals according to the requirements of the NBIS and SIM.
- (4) Maintain temporary structures and approaches in place until no longer needed. Unless the engineer directs otherwise, completely remove and dispose of as specified in 203.3.5; do not place on the finished surface.

526.5 Payment

Replace paragraph (2) with the following effective with the November 2025 letting.

- (2) Payment for the Temporary Structure bid items is full compensation for providing a temporary structure including design and construction; for construction staking; for temporary shoring and other secondary structure items; for backfilling with structure backfill; for maintaining; and for removing when no longer needed. The department will pay 70 percent of the contract amount when open to traffic and the balance after structure removal and associated site restoration.
-

550 Driven Piles

550.3.9 Pre-Boring

550.3.9.1 General

Add paragraph (2) effective with the February 2026 letting.

- (1) Pre-bore holes to the depth the plans or special provisions require. Submit written requests for pre-boring not required under the contract to the engineer for review and approval. Do not impair the capacity of in-place piles or damage adjacent structures by pre-boring operations.

- (2) Contractor may elect to not perform pre-boring, subject to written approval from the engineer as specified in 104.2.1(2). If the contractor elects to not perform pre-boring and subsequently pre-boring is necessary at any point throughout the project, no additional time or compensation will be granted.

621 Landmark Reference Monuments

Remove Standard Specification 621 (Landmark Reference Monuments) effective with the November 2025 letting. Refer to updated information in this ASP-6 for standard specifications 680 and 682.

643 Traffic Control

643.1 Description

Replace paragraph (1) with the following effective with the November 2025 letting.

- (1) This section describes providing, maintaining, repositioning, and removing temporary traffic control devices as follows:

Drums	Warning lights	42-inch cones
Barricades type III	Connected arrow boards	Portable changeable message signs
Flexible tubular markers	Signs	Channelizing curb system
Speed feedback trailers	Connected work zone start and end location markers	

643.2.2 Department's Approved Products List (APL)

Replace paragraph (1) with the following effective with the November 2025 letting.

- (1) Furnish materials from the APL as follows:

- Drums	- Connected arrow boards
- Barricades type III	- Sign sheeting
- Flexible tubular marker posts including bases	- 42-inch cone assemblies
- Warning lights and attachment hardware	- Portable changeable message signs
- Channelizing curb systems	- Speed feedback trailers
- Connected work zone start and end location markers	

643.3 Construction

643.3.1 General

Add paragraphs (10), (11), (12) and (13) effective with the November 2025 letting.

- (10) For connected devices provide a local specialist to respond to emergency situations within 2 hours of being notified. Equip local specialists with sufficient resources to correct deficiencies in the connected work zone devices.
- (11) Prior to deployment, test all connected devices with the engineer to ensure the device is showing in the WisDOT approved data feed. Send an email to DOTBTOworkzone@dot.wi.gov to notify BTO that the devices have been turned on.
- (12) Provide a WisDOT approved data feed from connected devices and the remote management software, updated at least every minute.
- (13) If requested by the engineer, provide real-time status change alerts to a list of designated personnel via text or email or both. Send an alert each time a connected device is switched between operating modes which include the current operating mode, the previous operating mode, the date and time of the mode switch, and the location (latitude and longitude) of the device at the time of the mode switch in the alert.

643.3.3 Connected Arrow Boards

Revise subsection title and add paragraphs (3) and (4) effective with the November 2025 letting.

- (3) The connected arrow board may be switched between the following pattern displays per the plan:
- Blank
 - Right arrow static
 - Right arrow flashing
 - Right arrow sequential
 - Left arrow static
 - Left arrow flashing
 - Left arrow sequential
 - Line flashing

- Bi-directional arrow flashing.

- (4) When the connected arrow board is not displaying a pattern, the display shall be blank, and the connected arrow board transmits its status to the data feed. When a connected arrow board is switched to a pattern, the connected arrow board transmits its location and its current operating mode to the data feed.

643.3.7 Temporary Pavement Marking

Add paragraph (9) effective with the November 2025 letting.

- (9) Install temporary markings on the final surface in the same location as permanent markings will be placed or as the plans show.

643.3.10 Connected Work Zone Start and End Location Markers

Add subsection effective with the November 2025 letting.

- (1) Place work zone start location marker at the beginning of the work zone per plan or as the engineer directs. Clearly label the work zone start location marker so that it is easily distinguishable by field personnel.
- (2) Place work zone end location marker at the end of the work zone per plan or as the engineer directs. Clearly label the work zone end location marker so that it is easily distinguishable by field personnel.
- (3) Ensure the connected work zone start and end location markers operate continuously when deployed on the project.
- (4) Ensure the work zone location markers and connected arrow board are from the same manufacturer.
- (5) When the work zone start and end location markers are switched to the ON mode, verify the begin and end location markers transmit their location and identity as begin or end markers to the data feed.
- (6) Switch the work zone start and end location markers to OFF mode when temporary traffic control is removed, and the normal traveled way is restored.

643.4 Measurement

643.4.1 Items Measured by the Day

Add paragraphs (3) and (4) effective with the November 2025 letting.

- (3) The department will measure Traffic Control Connected Arrow Boards by day for the days the device is reporting correct data.
- (4) The department will measure Traffic Control Connected Work Zone Start and End Location Markers by day per roadway segment for the days the devices are reporting correct data.

643.5 Payment

643.5.1 General

Replace paragraph (1) with the following effective with the November 2025 letting.

- (1) The department will pay for measured quantities at the contract unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
643.0300	Traffic Control Drums	DAY
643.0420	Traffic Control Barricades Type III	DAY
643.0500	Traffic Control Flexible Tubular Marker Posts	EACH
643.0600	Traffic Control Flexible Tubular Marker Bases	EACH
643.0650	Traffic Control Channelizing Curb System	LF
643.0700 - 0799	Traffic Control Warning Lights (type)	DAY
643.0810	Traffic Control Connected Arrow Boards	DAY
643.0900	Traffic Control Signs	DAY
643.0910	Traffic Control Covering Signs Type I	EACH
643.0920	Traffic Control Covering Signs Type II	EACH
643.1000	Traffic Control Signs Fixed Message	SF
643.1050	Traffic Control PCMS	DAY
643.1051	Traffic Control PCMS with TMC Communications	DAY
643.1070 - 1079	Traffic Control Cones (height)	DAY
643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY
643.1500	Traffic Control Speed Feedback Trailer	DAY
643.3100 - 3299	Temporary Marking Line (material/type) (width)	LF
643.3300 - 3399	Temporary Marking Crosswalk (material) 6-Inch	LF
643.3500 - 3599	Temporary Marking Arrow (material)	EACH

643.3600 - 3699	Temporary Marking Word (material)	EACH
643.3700 - 3799	Temporary Marking Raised Pavement Marker (type)	EACH
643.3800 - 3899	Temporary Marking Stop Line (material) 18-Inch	LF
643.3900 - 3959	Temporary Marking Diagonal (material) 12-Inch	LF
643.3960 - 3999	Temporary Marking Removable Mask Out Tape (width)	LF
643.4100	Traffic Control Interim Lane Closure	EACH
643.5000	Traffic Control	EACH

646 Pavement Marking**646.3.1.1 General Marking**

Replace paragraph (7) with the following effective with the November 2025 letting. Add paragraph (8) effective with the February 2026 letting.

- (7) Apply marking to the width and color the bid item indicates. Distribute beads uniformly across the line. Provide a sharp cutoff for both sides and ends of the marking with a uniform cross-section. Achieve straight alignment, not to exceed a 3/8-inch variation in any 40-foot section of travelled way. Do not damage existing marking that will remain in place.
- (8) Apply both lines of the centerline marking simultaneously to ensure a consistent gap.

646.3.1.6 Proving Period**646.3.1.6.1 General**

Replace paragraph (1) with the following effective with the February 2026 letting.

- (1) The engineer may conduct post acceptance inspections periodically during a proving period to evaluate the physical presence of pavement marking and, for permanent markings, the retroreflectivity. The proving period begins on the last day of the week, for all marking placed within that week. The proving period extends through April 15 of the next calendar year or 180 days, whichever is longer. If weather or road surface conditions prevent the engineer from fully evaluating the marking at the end of the proving period, the engineer may extend the proving period.

646.3.1.6.2 Retroreflectivity

Replace paragraph (1), included with the November 2025 ASP-6, with the following effective with the February 2026 letting.

- (1) For permanent markings, the engineer will also evaluate the percent failing retroreflectivity at the end of the proving period. Ensure that the 180-day reflectivity, in millicandelas/lux/m², meets or exceeds the following:

		180 DAY DRY
<u>MATERIAL</u>	<u>COLOR</u>	<u>RETROREFLECTIVITY</u>
Epoxy	White	150
	Yellow	100
Wet Reflective Epoxy	White	250
	Yellow	150
Permanent Tape	White	400
	Yellow	335

646.3.2.3.2 Wet Reflective Epoxy

Replace paragraph (1) with the following effective with the February 2026 letting.

- (1) Apply wet reflective epoxy binder in a grooved slot and provide a double drop bead system at the application rate specified in the APL.

646.3.2.4 Black Epoxy

Replace paragraph (1) with the following effective with the November 2024 letting.

- (1) Apply black epoxy in a grooved slot directly after the white marking. Apply epoxy at a wet mil thickness of 20. Apply black aggregate at or exceeding 25 pounds per gallon of epoxy. Do not apply glass beads to black epoxy.

646.3.3 Special Marking

Replace subsection with the following effective with the February 2026 letting.

- (1) Fill in any breaks left from the stencil with the same material to ensure there are no gaps.

-
- (2) Under the Marking Railroad Crossings bid items, apply the RXR symbol and 3 transverse lines as the plans show.
 - (3) Under the Marking Curb bid items, mark the vertical face and the top of the curb.
 - (4) Under the Marking Aerial Enforcement Bars bid items, the department will locate the marking. Notify the engineer at least one week before marking so the State Patrol can provide exact locations.
-

650 Construction Staking

650.3.12 Supplemental Control Staking

Replace paragraph (2) with the following effective with the November 2025 letting.

- (2) Document and provide to the engineer complete descriptions and reference ties of the control points, alignment points, and benchmarks to allow for quick reestablishment of the plan data at any time during construction and upon project completion. Document additional control on department form DT1291 as described in CMM 710, table 710-1.
-

680 Public Land Survey Monuments

Add section 680 (Public Land Survey Monuments) effective with the November 2025 letting.

680.1 Description

- (1) This section describes perpetuating US Public Land Survey System (USPLSS) monuments.

680.2 Materials

- (1) Furnish magnetic survey nails with center point a minimum of 2-1/2 inches long or engineer approved alternative.
- (2) Furnish minimum 3/4-inch reinforcement or 1 inch outside diameter (OD) iron pipe at least 24 inches long.
- (3) Furnish plastic survey marker cap with lettering that reads "Witness Monument".
- (4) Use alternative materials if requested and furnished by the county surveyor.

680.3 Construction

680.3.1 General

- (1) Perform work under the direction and control of a professional land surveyor registered in the state of Wisconsin, following Wisconsin Administrative Code A-E 7 (https://docs.legis.wisconsin.gov/code/admin_code/a_e/7).
- (2) Preserve existing USPLSS monuments and witness monuments (ties) within the construction limits in their original position until monuments are verified and sufficiently tied off.

680.3.2 Pre-Construction

- (1) Notify the county surveyor at least 30 days prior to start of construction operations about all USPLSS monuments within the construction limits that might be disturbed.
- (2) Obtain the existing USPLSS Monument Record from the county surveyor. Verify existing monuments and witness monuments are in place and undisturbed.
- (3) Replace witness monuments that are missing or that could be disturbed by construction operations. Locate new witness monuments near the USPLSS monument but outside the construction limits. Submit a monument record as specified in 680.3.5.
- (4) Temporarily mark the location of all witness monuments to protect them during construction.

680.3.3 Removals

- (1) Remove or abandon existing monument and monument cover that interfere with construction operations. Remove and dispose of surplus excavation and materials as specified in 205.3.12.

680.3.4 Post-Construction

- (1) Verify the location of monuments and witness monuments when construction operations are complete.
- (2) Set new monuments and witness monuments where necessary. Recess magnetic survey nails 1/4 inch below the pavement surface for monuments located in pavement. Use reinforcement or iron pipe for monuments not in pavement and for witness monuments. Locate new witness monuments near the USPLSS monument and outside the roadbed. Install plastic caps on witness monuments.
- (3) Install marker posts next to all witness monuments if required and supplied by the county surveyor.
- (4) Omit setting monuments in the pavement if approved by the department's regional survey coordinator and county surveyor due to traffic or safety concerns.

- (5) Submit a monument record as specified in 680.3.5.

680.3.5 Monument Records

- (1) Submit a monument record on department form DT1291 to the county surveyor at locations where monuments were set. Provide a copy to the engineer and regional survey coordinator.

680.4 Measurement

- (1) The department will measure bid items under this section as each individual monument acceptably completed.

680.5 Payment

- (1) The department will pay for measured quantities at the contract unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
680.0100	Public Land Survey Monument Verify and Reset	EACH

- (2) Payment for the Public Land Survey Monument Verify and Salvage bid item is full compensation for providing all materials; for coordinating with county surveyors; for obtaining existing monument records; for verifying the existing location of monuments and witness monuments; for removing or abandoning existing monuments and monument covers; for resetting monuments; for setting or resetting temporary and permanent witness monuments; and for submitting monument records.

682 Geodetic Survey Monuments

Add section 682 (Geodetic Survey Monuments) effective with the November 2025 letting.

682.1 Description

- (1) This section describes salvaging geodetic survey discs and constructing geodetic survey monuments.

682.2 Materials

- (1) Furnish materials conforming to the following:

Concrete.....	501
Reinforcement	505.2
Foundation backfill	520.2

- (2) Furnish grade A concrete as modified in 716. Provide QMP for class III ancillary concrete as specified in 716.

682.3 Construction

- (1) Contact the WisDOT Geodetic Surveys Unit at (866) 568-2852 or “geodetic@dot.wi.gov” as required below.

682.3.1 Salvage Geodetic Survey Discs

- (1) Remove and salvage geodetic survey discs from existing structures or survey monuments being removed at the locations shown in the plan.
- (2) Notify the WisDOT Geodetic Surveys Unit 7 calendar days prior to removal operations.
- (3) Ship or deliver salvaged discs to following address:

WisDOT Bureau of Technical Services
 Geodetic Surveys Unit
 3502 Kinsman Boulevard
 Madison, WI 53704

Provide a tracking number to the Geodetic Surveys Unit upon shipment or contact the Geodetic Surveys Unit to schedule in-person delivery.

682.3.2 Geodetic Survey Monuments

682.3.2.1 Monument Location

- (1) Stake the approximate location of monuments provided in the plan and contact the WisDOT Geodetic Surveys Unit 30 days prior to excavating holes for field verification and delivery of department furnished geodetic survey discs.

682.3.2.2 Placing Monuments

- (1) Excavate holes for monuments by use of a circular auger at the size and depth the plans show or as the engineer directs.
- (2) Remove and dispose of surplus excavation and materials as specified in 205.3.12.

- (3) Fill holes with concrete and strike off flush with the ground surface. Place circular forms and steel reinforcement in the concrete as the plans show. Place geodetic survey discs on monuments while the concrete is still plastic.

682.3.2.3 Protecting and Curing

- (1) Cure exposed portions of cast in place concrete monuments as specified in 415.3.12 except the contractor may use curing compound conforming to 501.2.8.
- (2) Protect placed concrete monuments as specified for concrete pavement as specified in 415.3.14
- (3) Protect cast in place concrete monuments from freezing for 7 days.

682.4 Measurement

- (1) The department will measure bid items under this section as each individual monument acceptably completed.

682.5 Payment

- (1) The department will pay for measured quantities at the contract unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
682.0100	Salvage Geodetic Survey Disc	EACH
682.0200	Geodetic Survey Monument	EACH

- (2) Payment for the Salvage Geodetic Survey Disc bid item is full compensation for removing and salvaging; and shipping or delivering the disc to the Geodetic Surveys Unit. Removing existing survey monuments will be paid separately under the Removing Concrete Bases bid item. Removing existing survey marker posts will be paid separately under the Removing Delineators and Markers bid item.
- (3) Payment for the Geodetic Survey Monument bid item is full compensation for staking; providing concrete; providing steel reinforcement; for placing department-furnished geodetic discs; and for excavating and backfilling.

710 General Concrete QMP

710.3 Certification Requirements

Replace paragraph (1) and add paragraph (2) effective with the November 2025 letting.

- (1) Have a person certified from the Highway Technician Certification Program Portland Cement Concrete Technician 1 (HTCP - PCCTEC-1) or Assistant Certified Technician Program - Portland Cement Concrete (ACT-PCC) working under a certified technician, on the project site, prepared and equipped to perform required sampling and testing whenever placing concrete.
- (2) The department will have a certified HTCP Portland Cement Concrete Mix Design Certification (PCC MDC) technician to review and approve concrete mixes.

710.4 Concrete Mixes

Replace subsection with the following effective with the November 2025 letting.

- (1) The contractor is responsible for mix performance.
- (2) At least 7 business days before producing concrete, document that materials conform to 501 unless the engineer allows or individual QMP specifications provide otherwise. Include the following:
1. For mixes: quantities per cubic yard expressed as SSD weights and net water, water to cementitious material ratio, air content, and SAM number.
 2. For cementitious materials and admixtures: type, brand, and source.
 3. For aggregates: absorption, oven-dried specific gravity, SSD bulk specific gravity, wear, soundness, light weight pieces, freeze thaw test results if required, and air correction factor. Submit component aggregate gradations, aggregate proportions, and target combined blended aggregate gradations using the following:
 - DT2220 for combined aggregate gradations.
 - DT2221 for optimized aggregate gradations.
 4. For optimized concrete mixtures:
 - Complete the worksheets within DT2221 according to the directions.
 - Ensure the optimized aggregate gradations and the optimized mix design conform to WisDOT specifications and pass the built-in tests within DT2221.
 - Verify slip-form mixture workability and conformance to specifications through required trial batching.
 - Submit the completed DT2221 to the engineer electronically. Include the trial batch test results with the mix design submittal.

5. For high early strength (HES) concrete mixtures required by contract, complete the HES mix modification section in the DT2220 or DT2221 form.

- (3) Document mix adjustments daily during concrete production.
- (4) Prepare, notify, and submit mixture design modifications to the engineer. Do not place material until the documentation is submitted and, when required, written approval of the mixture design modifications.
- (5) Report concrete mix design modifications as classified in levels as specified in table 710-1.

TABLE 710-1 MIX DESIGN MODIFICATION NOTIFICATION

NOTIFICATION	LEVEL I	LEVEL II	NEW MIX DESIGN DURING PROJECT
Prepare, notify, and submit mix design to Engineer	Prior to use	3 business days prior to use	5 business days prior to use
Approval required before placement	No	Yes	Yes

- (6) A mix design modification is when any modification occurs for a specific level as specified in table 710-2.
- (7) Dependent on the modification performed, documentation is required to be submitted to the engineer as specified in table 710-3.
- (8) For HES concrete, conform as specified in table 710-4.
- (9) HES concrete is not eligible for 28-day strength incentives.
- (10) Submit concrete mix designs into MRS as specified in 701.1.2.7.

TABLE 710-2 MATERIAL MIX DESIGN MODIFICATIONS

Replace Table 710-2, included with the November 2025 ASP-6, with the following effective with the February 2026 letting.

MODIFICATION TYPE		LEVEL I	LEVEL II	NEW MIX DESIGN DURING PROJECT
Change in:	Water source	X		
	Cement source, type, or brand			X
	Total cementitious		X ^[1]	X
	Aggregate blend	X		
	Aggregate source			X
	SCM replacement rate		X	
	SCM type and supplier			X
	Fly ash source (different class)			X
	Fly ash source (same class for pavements and cast-in-place barriers)		X	
	Fly ash source (same class for structures)			X
	Slag source (same grade)		X	
	Slag source (different grade)		X	
	Chemical admixture manufacturer or product name ^[2]			X
	Chemical admixture dosage rates	X ^[3]		X
Removal of:	SCM			X
	Chemical admixture other than Type B or D			X ^[3,4]
	Type B or Type D chemical admixture	X ^[3]	X ^[4]	
Addition of:	Non-fading, color pigment	X		
	Chemical admixture other than Type B or D			X ^[3,4]
	Type B or Type D chemical admixture	X ^[3]	X ^[4]	
	New SCM			X

^[1] For HES/SHES concrete modification only.

^[2] Not including Type B or Type D chemical admixture.

^[3] When admixture is from the concrete admixture APL and the dosage rate is within recommended dosage rates as specified in the APL. If the admixture dosage rate is outside of recommended dosage rates as specified in the APL, BTS approval is required before use.

^[4] Not furnished from the APL.

TABLE 710-3 MIX DESIGN MODIFICATION DOCUMENTATION

Replace Table 710-3, included with the November 2025 ASP-6, with the following effective with the February 2026 letting.

NEW REQUIRED DOCUMENTATION	LEVEL I	LEVEL II	NEW MIX DESIGN DURING PROJECT
Results from trial batching if required			X
Amendment to the quality control plan	X	X	X
Water source name and report	X ^[1]		
Cement mill certification			X
WisDOT aggregate quality report			X
SCM mill certification		X	X
Chemical additive product data sheet	X	X	X
Updated DT2220 or DT2221 form	X	X	
New DT2220 or DT2221 form			X
New mixture ID: Contractor ID and WisDOT ID		X	X
New maturity curve	X ^[2]	X	X
New lot/sublot layout ^[3]		X ^[3,4,5]	X

^[1] Water for concrete report conforming to 501.2.6 for private wells or surface water sources.

^[2] Required only when using a retarder.

^[3] Required for HES concrete.

^[4] Required when changing the SCM replacement rate.

^[5] Not required for SCM source change of same Class/Grade in pavements and cast-in-place barrier projects.

TABLE 710-4 OPTIONS FOR HES CONCRETE

SCENARIO	MIXTURE MODIFICATION	
When the contract requires, or the HES is directed by the department	OPTION 1 ^[1]	Add 94 to 282 lb/cy of cement ^[2]
	OPTION 2	Use Type III cement
When the engineer allows HES when requested by the contractor in writing	Add up to 282 lb/cy of cement ^[1,2]	

^[1] Adjust water to maintain workability without raising the w/cm ratio.

^[2] Add to a previously accepted mixture.

710.5.6.2 Contractor Control Charts

710.5.6.2.1 General

Replace subsection with the following effective with the November 2025 letting.

- (1) Test aggregate gradations during concrete production except as allowed for small quantities under 710.2. Perform required contractor testing using non-random samples.
- (2) Sample aggregates from either the conveyor belt or from the working face of the stockpiles.
- (3) Complete aggregate testing as specified in table 710-5. Submit one pre-placement test within five days before anticipated placement. Include this gradation on the control charts.
- (4) Report gradation test results and provide control charts to the engineer within 1 business day of obtaining the sample. Submit results to the engineer and electronically into MRS as specified in 701.1.2.7.
- (5) Conduct aggregate testing at the minimum frequency specified in table 710-5 for each mix design, except as allowed for small quantities in 710.2. The contractor's concrete production tests can be used for the same mix design on multiple contracts.

TABLE 710-5 QC AGGREGATE TESTING FREQUENCY

Replace Table 710-5, included with the November 2025 ASP-6, with the following effective with the February 2026 letting.

CONCRETE CLASSIFICATION	PRE-PLACEMENT TESTING	PLACEMENT TESTING	
Class I: Pavement ^[1]	One pre-placement test per aggregate source	Hand Placement: ≤ 250 CY > 250 CY Slip Formed Placement ≤ 1500 CY > 1500 CY	One test per cumulative 250 CY One test per day One test per day Two tests per day
Class I: Structures ^{[2], [3], [4]}		One test per cumulative 150 CY, maximum one test per day	
Class I: Cast-in Place Barrier ^[1]		≤ 250 CY > 250 CY	One test per cumulative 250 CY One test per day
Class II: Base	One pre-placement test per aggregate source	One test per calendar week of production	
Class II: Structure Repair - Joints		One test per cumulative 150 CY, maximum one test per day	
Class II: Concrete Overlay		One test per 400 CY, minimum one test per 10 business days, maximum one test per day	
Class II: Pavement Repair			
Class II: Pavement Replacement			
Class II: Base Patching			
Class II: Ancillary			
Class II: Structure Repair – Curb & Surface ^[5]		Preplacement testing only	

^[1] Frequency is based on project daily production rate.

^[2] Aggregate gradation testing must be performed on a per contract basis. If multiple structures are on the same contract and use the same aggregate source, then the samples must be collected based on cumulative concrete contract quantities within the same concrete classification.

^[3] WTM T255 (Fine and Coarse) required for each aggregate sample.

^[4] Calculate trial batch weights for each mix design when production begins and whenever the moisture content of the fine or coarse aggregate changes by more than 0.5 percent, adjust the batch weights to maintain the design w/cm ratio.

^[5] Aggregate gradation must meet the gradation previously approved by the engineer.

710.5.6.3 Department Acceptance Testing

Replace subsection with the following effective with the November 2025 letting.

- (1) Department testing frequency is based on the quantity of each mix design placed under each individual WisDOT contract as specified table 710-6. Aggregate gradation testing must be performed on a per contract basis.
- (2) The department will split each sample, test for acceptance, and retain the remainder for a minimum of 10 calendar days.
- (3) The department will obtain the sample and deliver to the regional testing lab in the same day. The department will report gradation test results to the contractor within 1 business day of being delivered to the lab. The department and contractor can agree to an alternative test result reporting timeframe. Document alternative timeframes in the contractor's quality control plan.
- (4) Additional samples may be taken at the engineer's discretion due to a changed condition.
- (5) If multiple bid items on the same contract use the same aggregate source, then the samples must be collected based on cumulative concrete contract quantities within the same concrete classification.
- (6) Department will test small quantities at the minimum frequency specified in table 710-7.

TABLE 710-6 QV AGGREGATE TESTING FREQUENCY

CONCRETE CLASSIFICATION	PLACEMENT TESTING
Class I: Pavement	One test per placement day for first 5 days of placement. - If all samples are passing, reduced testing frequency is applied. - Reduced frequency: One test per calendar week of placement
Class I: Structures	One test per 250 CY placed. - Minimum of one test per contract for substructure - Minimum of one test per contract for superstructure
Class I: Cast-in-Place Barrier	One test per 500 CY placed
Class II: Concrete Overlay	One test per 250 CY - Maximum one test per day
Class II: Base	No minimum testing
Class II: Structure Repair	
Class II: Pavement Repair	
Class II: Pavement Replacement	
Class II: Base Patching	
Class II: Ancillary	

TABLE 710-7 QV AGGREGATE TESTING FREQUENCY FOR SMALL QUANTITIES

CONCRETE CLASSIFICATION	PLACEMENT TESTING
Class I: Pavement	One test on the first day of placement.
Class I: Structures	
Class I: Cast-in-Place Barrier	

710.5.7 Corrective Action**710.5.7.1 Optimized Aggregate Gradations**

Replace subsection with the following effective with the November 2025 letting.

- (1) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by less than or equal to 1.0 percent on a single sieve size or limits listed in the additional requirements for optimized aggregate gradation in 501.2.7.4.2 table 501-4, notify the other party immediately and do the following:

Option A:

1. Perform corrective action documented in the QC plan or as the engineer approves.
2. Document and provide corrective action results to the engineer as soon as they are available.
3. Department will conduct two tests within the next business day after corrective action. Department will provide test results to contractor after each test is complete.
4. If blended aggregate gradations are within the tarantula curve limits by the second department test:
 - Continue with concrete production.
 - Include a break in the 4-point running average.
 - For Class I Pavements: The department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
5. If blended aggregate gradations are not within the tarantula curve limits by the second department test:
 - If the contract does not require optimized aggregate gradation under 501.2.7.4.2.1(2), stop concrete production and submit either a modified optimized aggregate gradation mix design or a new optimized aggregate gradation mix design.
 - If the contract requires optimized aggregate gradations under 501.2.7.4.2.1(2), stop concrete production and submit a modified optimized aggregate gradation mix design or a new optimized aggregate gradation mix design.

Option B:

1. Submit a modified optimized aggregate gradation mix design or a new optimized aggregate gradation mix design.
2. Restart control charts for new mix design.

- (2) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a modified mix design or a new mix design.
- (3) Both the department and contractor must sample and test aggregate of the modified mix design or a new mix design at the frequency specified in 710.5.6.1.

710.5.7.2 Combined Aggregate Gradations

Replace subsection with the following effective with the November 2025 letting.

- (1) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by less than or equal to 1.0 percent on a single sieve size, do the following:
 1. Notify the other party immediately.
 2. Perform corrective action documented in the QC plan or as the engineer approves.
 3. Document and provide corrective action results to the engineer as soon as they are available.
 4. The department will conduct two tests within the next business day after corrective action is complete.
 5. If blended aggregate gradations are within the combined aggregate gradation limits by the second department test:
 - Continue with concrete production.
 - Include a break in the 4-point running average.
 - For Class I Pavements: The department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
 6. If blended aggregate gradations are not within the combined aggregate gradation limits by the second department test, stop concrete production and submit a modified mix design or a new mix design.
- (2) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a modified mix design or a new mix design.
- (3) Both the department and contractor must sample and test aggregate of the modified mix design or a new mix design at the frequency specified in 710.5.6.1.

715 QMP Concrete Pavement, Cast-in-Place Barrier and Structures

715.3.1.2 Lot and Sublot Definition

715.3.1.2.1 General

Replace subsection with the following effective with the November 2025 letting.

- (1) Designate the location and size of all lots before placing concrete. Ensure that no lot contains concrete of more than one mix design or placement method defined as follows:

Mix design change A modification to the mix requiring the engineer's approval under 710.4(5).
For paving and barrier mixes, follow 710.4(4) and 710.4(5) for concrete mixture design modifications.

Placement method Either slip-formed, not slip-formed, or placed under water.

- (2) Lots and sublots include ancillary concrete placed integrally with the class I concrete.

715.3.1.2.3 Lots by Cubic Yard

Replace paragraph (3) with the following effective with the November 2025 letting.

- (3) An undersized lot is eligible for incentive payment under 715.5 if the lot has 4 or more sublots for that lot.

715.3.2 Strength Evaluation

715.3.2.1 General

Replace subsection with the following effective with the November 2025 letting.

- (1) The department will make pay adjustments for strength on a lot-by-lot basis using the compressive strength of contractor QC cylinders or the flexural strength of contractor QC beams.
- (2) The department will evaluate the sublot for possible removal and replacement if the 28-day sublot average strength is:
 - Pavement (Compressive): < 2500 psi
 - Pavement (Flexural): < 500 psi
 - Structure: < f'_c - 500 psi ^[1]

- Cast-in-Place Barrier: < f'c - 500 psi ^[1]
^[1] f'c is design strength found in plans or specials.

715.5 Payment

715.5.1 General

Replace paragraph (4) and add paragraphs (8) and (9) effective with the November 2025 letting.

- (4) The department will adjust pay for each lot using PWL of the 28-day subplot average strengths for that lot. The department will measure PWL relative to strength lower specification limits as follows:
 - Compressive strength of 3700 psi for pavements.
 - Flexural strength of 650 psi for pavements.
 - Compressive strength of 4000 psi for super structures and barrier, or as shown in the plan details.
 - Compressive strength of 3500 psi for substructures and culverts, or as shown in the plan details.
- (5) The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under 715.3.1.2.2.
- (6) Submit test results to the department electronically using MRS software. The department will verify contractor data before determining pay adjustments.
- (7) All coring and testing costs under 715.3.2.2 including filling core holes and providing traffic control during coring are incidental to the contract.
- (8) If the contractor combines concrete of varying specified strengths in a single lot/sublot, the highest specified strength of the related concrete shall be used to calculate pay incentive/disincentive.
- (9) The department will apply one price adjustment to a given quantity of material. If the quantity in question is subject to more than one nonconforming test, apply the adjustment with the greater price reduction. In the absence of exact quantities affected by the subplot test results, pay reductions will be applied to the entire subplot.

715.5.4 Pay Adjustments for Nonconforming Air Content, Temperature, and Delivery Time

Add subsection 715.5.4 (Pay Adjustments for Nonconforming Air Content, Temperature, and Delivery Time) effective with the November 2025 letting.

- (1) The department will adjust pay for each subplot with nonconforming QC air content and temperature test results as specified in table 715-2 and table 715-3. If the quantity in question is subject to more than one of the following conditions, apply the adjustment with the greater price reduction.
- (2) For high temperatures, the engineer may consider the effectiveness of the contractor's temperature control plan and the contractor's compliance with their temperature control plan before taking a price reduction.
- (3) A 25% price reduction to the concrete invoice price will be applied if concrete is placed after the delivery time exceeds the limit specified in 501.3.5.2.

TABLE 715-2 PRICE REDUCTIONS FOR NONCONFORMING AIR CONTENT

LIMITS (%)		PERCENT PRICE REDUCTION OF THE CONTRACT UNIT PRICE
Above Specification	≥ 0.5 ^[1]	10
	0.1 to 0.4 ^[1]	5
Below Specification	0.1 to 0.5	20
	0.6 to 1.0	30
	> 1.0	50 or remove and replace

^[1] Evaluate the strength data. If the strengths are acceptable, do not take a price reduction for high air content. Contractor is responsible to provide additional strength data, if necessary.

TABLE 715-3 PRICE REDUCTIONS FOR NONCONFORMING TEMPERATURE

Replace Table 715-3, included with the November 2025 ASP-6, with the following effective with the February 2026 letting.

CONCRETE TEMPERATURE (F) ^[1]		PRICE REDUCTION (%)
Upper Temperature Limit ^[2]	> 80 to <= 85	10
	> 85	25
Lower Temperature Limit	45 to <= 50	10
	< 45	25

^[1] Applies only for Concrete Structures and Cast-in-Place Barrier.

^[2] If a written temperature control plan outlining the actions by the contractor to control concrete temperature at the point of placement exceeding 80 F is submitted and followed to effectively control the temperature, the upper temperature limit is increased by 10 F for price reductions for nonconforming temperature.

716 QMP Ancillary Concrete

716.2 Materials

716.2.1 Class II Concrete

Replace paragraph (2) with the following effective with the November 2025 letting.

(2) Perform random QC testing at the following frequencies:

1. Test air content, temperature, and slump a minimum of once per 100 cubic yards for each mix design and placement method.
2. Cast one set of 3 cylinders per 200 cubic yards for each mix design and placement method. Cast a minimum of one set of 3 cylinders per contract for each mix design and placement method. Random 28-day compressive strength cylinders are not required for HES or SHES concrete.
3. For deck overlays, perform tests and cast cylinders once per 50 cubic yards of grade E concrete placed.
4. For concrete base, one set of tests and one set of cylinders per 250 cubic yards.

The department will allow concrete startup test results for small quantities as specified in 710.2(1). Cast one set of 3 cylinders if using startup testing for acceptance.

716.2.2 Class III Concrete

Replace paragraph (1) with the following effective with the November 2025 letting.

- (1) Acceptance of class III concrete is based on DT2220/ DT2221 certification page. Submit the certificate of compliance at least 3 business days before producing concrete along with the initial concrete mix documentation as required under 710.4(2).

Bid Items

500 Bid Items

Remove the following bid items effective with the February 2026 letting.

522.2363	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 63x98-Inch	LF
522.2663	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 63x98-Inch	EACH

600 Bid Items

Remove the following bid item effective with the February 2026 letting.

608.2363	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 63x98-Inch	LF

Add the following bid item effective with the November 2025 letting.

611.0613	Inlet Covers Type DW	EACH

Remove the following bid items effective with the November 2025 letting.

621.0100	Landmark Reference Monuments	EACH
621.1100	Landmark Reference Monuments and Cast-Iron Covers	EACH
621.1200	Landmark Reference Monuments and Aluminum Covers	EACH

Remove the following bid items effective with the November 2025 letting.

643.0405	Traffic Control Barricades Type I	DAY
643.0410	Traffic Control Barricades Type II	DAY
643.0800	Traffic Control Arrow Boards	DAY

Add the following bid items effective with the November 2025 letting.

643.0810	Traffic Control Connected Arrow Boards	DAY
643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY

Add the following bid item effective with the February 2026 letting.

657.0348	Poles Type 9 - Special Over Height	EACH
657.0353	Poles Type 10 - Special Over Height	EACH

Add the following bid items effective with the November 2025 letting.

680.0100	Public Land Survey Monument Verify and Reset	EACH
682.0100	Salvage Geodetic Survey Disk	EACH
682.0200	Geodetic Survey Monuments	EACH

ERRATA

204.3.1.3 Salvaging or Disposal of Materials

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Dispose of concrete, stone, brick, and other material not designated for salvage as specified for disposing of materials under 203.3.5.

204.3.2.3 Removing Buildings

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Buildings removed and materials resulting from building removal become the contractor's property unless the contract specifies otherwise. Dispose of unclaimed and removed material as specified for disposing of materials in 203.3.5.

335.3.2 Rubblizing

Replace paragraph (6) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (6) Remove reinforcing steel exposed at the surface by cutting below the surface and disposing of the steel as specified in 203.3.5. Do not remove unexposed reinforcing steel.

335.3.3 Compacting

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Remove loose asphaltic patching material, joint fillers, expansion material, or other similar materials from the compacted surface. Also remove pavement or patches that have a maximum dimension greater than or equal to 6 inches that are either not well seated or projecting more than one inch. Dispose of removed material as specified in 203.3.5.

460.3.3.2 Pavement Density Determination

Replace change description annotation with the following to revise implementation date. This change is effective with the November 2025 letting.

Add information to 460.3.3.2(1) and (3). Add reference to CMM, WTM, and WTP H-002. WTP H-002 contains the subplot layouts formerly in CMM 815. Definition of a lot is now defined here (460.3.3.2(3)) instead of CMM. This change was implemented via ASP-6 with the February 2024 letting.

602.3.6 Concrete Rumble Strips

Replace paragraph (5) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (5) At the end of each workday, move equipment and material out of the clear zone and sweep or vacuum the traveled way pavement and shoulder areas. Sweep away or vacuum up milling debris before opening adjacent lanes to traffic. Dispose of waste material as specified in 203.3.5; do not place on the finished shoulder surface.

604.2 Materials

Replace paragraph (1) with the following information to remove line and link for crushed aggregate effective with the November 2024 letting. The crushed aggregate gradation information for slope paving is now found in 604.2(3).

- (1) Furnish materials conforming to the following:

Water.....	501.2
Select crushed material.....	312.2
Concrete.....	501
Reinforcement.....	505
Expansion joint filler	415.2.3
Asphaltic materials	455.2

ADDITIONAL SPECIAL PROVISION 7

A. Reporting 1st Tier and DBE Payments During Construction

1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
5. DBE firms must enter all payments to DBE and non-DBE firms regardless of tier.
6. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
7. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4), (5), and (6), and shall be binding on all first tier subcontractor relationships, all contractors and subcontractors utilizing DBE firms on the project, and all payments from DBE firms.

B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to paul.ndon@dot.wi.gov within 5 days of payment receipt to be logged manually.

***Additionally, for information on Subcontractor Sublet assignments, Subcontractor Payments and Payment Tracking, please refer to the CRCS Payment and Sublets manual at:

<https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payments-sublets-manual.pdf>

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

- (1) Use the department's Civil Rights Compliance System (CRCS) for projects with a LET date on or before December 2024 and AASHTOWare Project Civil Rights and Labor (AWP CRL) for projects with a LET date on or after January 2025 to electronically submit Certified Payroll Reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's Highway Construction Contractor Information (HCCI) site on the Labor, Wages, and EEO Information page at:
<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>
- (2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS or AWP CRL. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.
- (3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS or AWP CRL training as they are about to begin their submittals. The department will provide training either in a classroom setting at one of our regional offices, via the online AWP Knowledge Base, or by telephone. to schedule CRCS specific training. The AWP Knowledge Base is at: <https://awpkb.dot.wi.gov/>
- (4) The department will reject all paper submittals for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.
- (5) For firms wishing to export payroll/labor data from their computer system, have their payroll coordinator contact:
 - For CRCS: Paul Ndon at paul.ndon@dot.wi.gov. Information about exporting payroll/labor data. Not every contractor's payroll system can produce export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at: <https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>
 - For AWP CRL: Contact AWP Support at awpsupport@dot.wi.gov. Additional information can be found in the AWP Knowledge Base at <https://awpkb.dot.wi.gov/Content/crl/Payrolls-PrimesAndSubs/PayrollXMLFileCreationProcess.htm>

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants /

Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:

The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act ([29 CFR part 3](#))), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act ([40 U.S.C. 3141\(2\)\(B\)](#)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in [29 CFR part 1](#), a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division

under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901–3907](#).

3. Records and certified payrolls (29 CFR 5.5)

a. Basic record requirements (1) Length of record retention. All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) Information required. Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) Additional records relating to fringe benefits. Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) Additional records relating to apprenticeship. Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. Certified payroll requirements (1) Frequency and method of submission. The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting

agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) Information required. The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (e.g., the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) Statement of Compliance. Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in [29 CFR part 3](#); and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) Use of Optional Form WH-347. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under [18 U.S.C. 1001](#) and [31 U.S.C. 3729](#).

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under [29 CFR part 6](#) any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address

of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices* (1) *Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and [29 CFR part 30](#).

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, [18 U.S.C. 1001](#).

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#); or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#).

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* \$31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the

event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

- a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;
- b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;
- c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or
- d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and

health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or

cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)**
This provision is applicable to all Federal-aid projects funded
under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

NON-DISCRIMINATION PROVISIONS

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

- a. Withholding payments to the contractor under the contract until the contractor complies; and/or
- b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director
Office of Federal Contract Compliance Programs
Ruess Federal Plaza
310 W. Wisconsin Ave., Suite 1115
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

DOMESTIC MATERIALS PREFERENCE PROVISION

Domestic Materials Preference (in accordance with the Buy America Act per [23 CFR 635.410](#), and the Build America-Buy America Act (BABA) per [2 CFR Part 184](#), and [2 CFR Part 200](#)) shall be articles, materials, or supplies permanently incorporated in this project as classified in the following four categories, and as described in the Construction and Materials Manual (CMM):

1. Iron and Steel

To be considered domestic, all steel and iron products used, and all products predominantly manufactured from steel or iron must be produced in the United States in accordance with the steel and iron product standards in 23 CFR 635.410.

This includes smelting, coating, bending, shaping, and all other manufacturing processes performed on the product. Coating includes all processes which protect or enhance the value of the material to which the coating is applied.

Products that are predominantly iron or steel or a combination of both as defined in 23 CFR 635.410 are considered Steel and Iron products and must comply with this section.

2. Construction Materials

To be considered domestic, all construction materials used must be produced in the United States in accordance with the construction material standards in [2 CFR 184.6](#):

- Non-ferrous metals: All manufacturing processes, from initial smelting or melting through final shaping, coating, and assembly, occurred in the United States.
- Plastic and polymer-based products: All manufacturing processes, from initial combination of constituent plastic or polymer-based inputs, or, where applicable, constituent composite materials, until the item is in its final form, occurred in the United States.
- Glass: All manufacturing processes, from initial batching and melting of raw materials through annealing, cooling, and cutting, occurred in the United States.
- Fiber optic cable (including drop cable): All manufacturing processes, from the initial ribboning (if applicable), through buffering, fiber stranding and jacketing, occurred in the United States. All manufacturing processes also include the standards for glass and optical fiber, but not for non-ferrous metals, plastic and polymer-based products, or any others.
- Optical fiber: All manufacturing processes, from the initial preform fabrication stage through the completion of the draw, occurred in the United States.
- Lumber: All manufacturing processes, from initial debarking through treatment and planning, occurred in the United States.
- Drywall: All manufacturing processes, from initial blending of mined or synthetic gypsum plaster and additives through cutting and drying of sandwiched panels, occurred in the United States.
- Engineered wood: All manufacturing processes from the initial combination of constituent materials until the wood product is in its final form, occurred in the United States.

3. Manufactured Products

To be considered domestic, all manufactured products used must be produced in the United States as defined in [23 CFR 635.410\(c\)\(1\)\(vii\)](#):

- For projects with let dates on or after October 1, 2025, the final step in the manufacturing process must occur in the United States.
- For projects with let dates on or after October 1, 2026, the final step in the manufacturing process must occur in the United States and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States must be greater than 55 percent of the total cost of all components of the manufactured product.

Manufactured products means articles, materials, or supplies that have been processed into a specific form and shape, or combined with other articles, materials, or supplies to create a product with different properties than the individual articles, materials, or supplies. If an item is classified as an iron or steel product, an excluded material, or construction material, then it is not a manufactured product. An article, material, or supply classified as a manufactured product may include components that are iron or steel

products, excluded materials, or construction materials. Mixtures of excluded materials delivered to a work site without final form for incorporation into a project are not a manufactured product.

Items that consist of two or more construction materials that have been combined together through a manufacturing process, and items that include at least one construction material combined with a material that is not a construction material (including steel/iron) through a manufacturing process are treated as manufactured products, rather than as construction materials.

Products that are classified as predominantly iron or steel do not meet the definition of a manufactured product and must comply with section 1.

With respect to precast concrete products **that are classified as manufactured products**, components of precast concrete products that consist wholly or predominantly of iron or steel or a combination of both shall meet the requirements of section 1. The cost of such components shall be included in the applicable calculation for purposes of determining whether the precast concrete product is produced in the United States.

With respect to intelligent transportation systems and other electronic hardware systems that are installed in the highway right of way or other real property **and classified as manufactured products**, the cabinets or other enclosures of such systems that consist wholly or predominantly of iron or steel or a combination of both shall meet the requirements of section 1. The cost of cabinets or other enclosures shall be included in the applicable calculation for purposes of determining whether systems referred to in the preceding sentence are produced in the United States.

4. Temporary and Excluded Materials

Temporary materials, and excluded materials meeting the definition of Section 70917(c) Materials as defined in [2 CFR 184](#), do not have any domestic materials requirements. Section 70917(c) Materials means cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives. Mixtures of excluded materials delivered to a work site without final form for incorporation into a project are not a manufactured product.

The classification of an article, material, or supply as falling into one of the categories listed in this section will be made based on its status at the time it is brought to the work site for incorporation into the project. Except as otherwise provided, an article, material, or supply incorporated into an infrastructure project must meet the Domestic Material Preference for only the single category in which it is classified.

Requirements do not preclude a minimal use of foreign steel and iron provided the cost of such materials do not exceed 0.1 percent (0.1%) of the total contract cost or \$2500 whichever is greater. The total contract cost is the contract amount at award.

For each iron or steel product subject to meeting domestic materials requirements, that doesn't fully meet Buy America Act requirements, the following documentation must be provided by the Contractor to verify the foreign steel value. Ensure the threshold is not exceeded and place the documentation in the project files.

- Pay Item,
- Description of associated foreign iron or steel product, or component,
- Invoiced cost of associated foreign iron or steel product, or component, and
- Current cumulative list of all foreign iron or steel products with the total dollar amount of foreign products in relation to the total contract amount.

The minimal use of foreign iron or steel under the minimal usage threshold must be approved by the Engineer prior to incorporation into the project and any associated payment under the contract. The use of foreign iron or steel under the minimal usage threshold does not need to be approved by FHWA. This amount is not considered a waiver to the domestic materials requirements. The Contractor must ensure that the minimal usage amount is not exceeded.

The contractor shall take actions and provide documentation conforming to CMM 228.5 to ensure compliance with this Domestic Material provision.

<https://wisconsindot.gov/rdw/cmm/cm-02-28.pdf>

Effective with October 2025 Letting

Upon completion of the project, certify to the engineer, in writing using department form DT4567 that all iron and steel, construction materials, and manufactured products conform to this domestic material provision.

Form DT4567 is available at: <https://wisconsindot.gov/Documents/formdocs/dt4567.docx>

Attach a list of foreign iron or steel and their associated costs to the certification form using the Domestic Material Exemption Tracking Tool, available at:

<https://wisconsindot.gov/hccidocs/contracting-info/buy-america-exemption-tracking-tool.xlsx>

CARGO PREFERENCE ACT REQUIREMENT

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) *Agreement Clauses.* “Use of United States-flag vessels:”

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.”

(b) *Contractor and Subcontractor Clauses.* “Use of United States-flag vessels: The contractor agrees—”

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT**

**SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS
FOR PROJECTS WITH FEDERAL AID**

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis.
https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work.”
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:

<https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf>

<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx>

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the department, the contractor shall post the following in at least one conspicuous and accessible place at the site of work:

- a. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. RESOURCES

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

State: Wisconsin

Construction Types: Highway

Counties: Wisconsin Counties of
Adams, Ashland, Barron, Bayfield, Brown,
Buffalo, Burnett, Calumet, Chippewa,
Clark, Columbia, Crawford, Dane, Dodge,
Door, Douglas, Dunn, Eau Claire,
Florence, Fond Du Lac, Forest, Grant,
Green, Green Lake, Iowa, Iron, Jackson,
Jefferson, Juneau, Kenosha, Kewaunee, La
Crosse, Lafayette, Langlade, Lincoln,
Manitowoc, Marathon, Marinette,
Marquette, Menominee, Milwaukee, Monroe,
Oconto, Oneida, Outagamie, Ozaukee,
Pepin, Pierce, Polk, Portage, Price,
Racine, Richland, Rock, Rusk, Sauk,
Sawyer, Shawano, Sheboygan, St Croix,
Taylor, Trempealeau, Vernon, Vilas,
Walworth, Washburn, Washington,
Waukesha, Waupaca, Waushara, Winnebago
and Wood

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

BRWI0001-002 06/01/2025

	Rates	Fringes
BRICKLAYER (CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEALEAU, AND VERNON COUNTIES).....	\$ 40.09	28.10

BRWI0002-002 06/01/2025

	Rates	Fringes
BRICKLAYER (ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES).....	\$ 48.60	29.31

BRWI0002-005 06/01/2025

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (ADAMS, BARRON, BROWN, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, SAUK, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES).....	\$ 46.01	29.31

BRWI0003-002 06/01/2024		
	Rates	Fringes
BRICKLAYER (BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES).....	\$ 38.45	27.41

BRWI0004-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (KENOSHA, RACINE, AND WALWORTH COUNTIES)....	\$ 44.71	28.90

BRWI0006-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES).....	\$ 39.36	28.83

BRWI0007-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (GREEN, LAFAYETTE, AND ROCK COUNTIES)....	\$ 40.34	29.49

BRWI0008-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 45.72	27.42

BRWI0011-002 06/01/2024		
	Rates	Fringes
BRICKLAYER (CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES).....	\$ 38.45	27.41

BRWI0019-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES).....	\$ 39.50	28.69

BRWI0034-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (COLUMBIA AND SAUK COUNTIES).....	\$ 41.17	28.66

CARP0068-011 05/05/2025		
	Rates	Fringes
PILEDRIVERMAN (BURNETT (W. OF HWY 48), PIERCE (W. OF HWY 29), POLK (W. OF HWYS 35, 48 & 65), AND ST. CROIX (W. OF HWY 65) COUNTIES).....	\$ 47.71	30.98
CARPENTER (BURNETT (W. OF HWY 48), PIERCE (W. OF HWY 29), POLK (W. OF HWYS 35, 48 & 65), AND ST. CROIX (W. OF HWY 65) COUNTIES).....	\$ 47.57	31.17

CARP0231-002 06/01/2025		
	Rates	Fringes
CARPENTER (KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 45.46	31.52

CARP0310-002 06/01/2025		

	Rates	Fringes
PILEDRIIVER (ADAMS, ASHLAND, BAYFIELD (EASTERN 2/3), FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, PRICE, SHAWANO (WESTERN PORTION OF THE COUNTY), TAYLOR, VILAS, AND WOOD COUNTIES).....	\$ 44.43	29.95
CARPENTER (ADAMS, ASHLAND, BAYFIELD (EASTERN 2/3), FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, PRICE, SHAWANO (WESTERN PORTION OF THE COUNTY), TAYLOR, VILAS, AND WOOD COUNTIES).....	\$ 44.43	29.95

CARP0314-001 06/02/2025

	Rates	Fringes
CARPENTER: PILEDRIIVERMEN (COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND, ROCK, SAUK, AND WALWORTH COUNTIES).....	\$ 44.45	28.78

CARP0361-004 05/05/2025

	Rates	Fringes
CARPENTER (BAYFIELD (WEST OF HWY 63) AND DOUGLAS COUNTIES).....	\$ 46.82	31.92

CARP0731-002 06/03/2024

	Rates	Fringes
CARPENTER: PILEDRIIVER (CALUMET (EASTERN PORTION OF THE COUNTY), FOND DU LAC (EASTERN PORTION OF THE COUNTY), MANITOWOC, AND SHEBOYGAN COUNTIES).....	\$ 42.44	28.44
CARPENTER (CALUMET (EASTERN PORTION OF THE COUNTY), FOND DU LAC (EASTERN PORTION OF THE COUNTY), MANITOWOC, AND SHEBOYGAN COUNTIES).....	\$ 42.44	28.44

CARP0955-002 06/01/2025

	Rates	Fringes
PILEDRIIVER (CALUMET (WESTERN PORTION OF THE COUNTY), FOND DU LAC (WESTERN PORTION OF THE COUNTY), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO).....	\$ 44.43	29.95
CARPENTER (CALUMET (WESTERN PORTION OF THE COUNTY), FOND DU LAC (WESTERN PORTION OF THE COUNTY), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO).....	\$ 44.43	29.95

CARP0955-002 06/02/2025

	Rates	Fringes
PILEDRIIVER (CALUMET (WESTERN PORTION OF THE COUNTY), FOND DU LAC (WESTERN PORTION OF THE COUNTY), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO).....	\$ 44.43	29.95
CARPENTER (CALUMET (WESTERN PORTION OF THE COUNTY), FOND DU LAC (WESTERN PORTION OF THE COUNTY), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO).....	\$ 44.43	29.95

CARP1056-002 06/01/2024

	Rates	Fringes
MILLWRIGHT (ADAMS, ASHLAND, BARRON, BAYFIELD , BROWN, BUFFALO, BURNETT ,CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,		

JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. OF HWY. 29 & 65), POLK (E. OF HWY. 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK,.....	\$ 42.00	28.85

CARP1074-002 06/02/2025

	Rates	Fringes

PILEDRIIVER (BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEpin, PIERCE (E. OF HWY. 29 & 65), POLK (E. OF HWY. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. OF HWY. 65), AND WASHBURN).....	\$ 44.43	29.95
CARPENTER (BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEpin, PIERCE (E. OF HWY. 29 & 65), POLK (E. OF HWY. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. OF HWY. 65), AND WASHBURN).....	\$ 44.43	29.95

CARP1143-002 06/02/2025

	Rates	Fringes

PILEDRIIVER (BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEALEU AND VERNON COUNTIES).....	\$ 44.43	29.95
CARPENTER (BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEALEU AND VERNON COUNTIES).....	\$ 44.43	29.95

CARP1146-002 06/02/2025

	Rates	Fringes

PILEDRIIVER (BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (WESTERN PORTION OF THE COUNTY) COUNTIES).....	\$ 44.43	29.95
CARPENTER (BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (WESTERN PORTION OF THE COUNTY) COUNTIES).....	\$ 44.43	29.95

CARP2337-009 06/02/2025

	Rates	Fringes

PILEDRIIVERMAN (KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA).....	\$ 44.39	34.79

ELEC0014-002 05/25/2025

	Rates	Fringes

ELECTRICIANS: (ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (EXCEPT MARYVILLE, COLBY, UNITY, SHERMAN, FREMONT, LYNN & SHERWOOD), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEpin, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPLEALEU, VERNON, AND WASHBURN COUNTIES).....	\$ 44.29	25.21

ELEC0014-007 05/25/2025

	Rates	Fringes

TELEDATA SYSTEM INSTALLER: INSTALLER/TECHNICIAN (ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KENOSHA, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MARATHON, MARINETTE, MARQUETTE,		

MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RACINE, RICHLAND, ROCK, RUS.....	\$ 31.17	20.08

ELEC0127-002 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (KENOSHA COUNTY).....	\$ 50.01	28.40

ELEC0158-002 05/25/2025		
	Rates	Fringes
ELECTRICIAN (BROWN, DOOR, KEWAUNEE, MANITOWOC (EXCEPT SCHLESWIG), MARINETTE(WAUSUAKEE AND AREA SOUTH THEREOF), OCONTO, MENOMINEE (EAST OF A INE 6 MILES WEST OF THE WEST BOUNDARY OF OCONTO COUNTY), SHAWANO (EXCEPT AREA NORTH OF TOWNSHIPS OF ANIWA AND HUTCHINS) COUNTIES).....	\$ 42.00	23.93

ELEC0159-003 05/26/2024		
	Rates	Fringes
ELECTRICIAN (COLUMBIA, DANE, DODGE (AREA WEST OF HWY 26, EXCEPT CHESTER AND EMMET TOWNSHIPS), GREEN, LAKE (EXCEPT TOWNSHIPS OF BERLIN, SENECA, AND ST. MARIE), IOWA, MARQUETTE (EXCEPT TOWNSHIPS OF NESHKOKA, CRYSTAL LAKE, NEWTON, AND SPRINGFIELD), AND SAUK COUNTIES).....	\$ 48.55	25.91

ELEC0219-004 06/01/2019		
	Rates	Fringes
ELECTRICIANS: ELECTRICAL CONTRACTS UNDER \$180,000 (FLORENCE COUNTY (TOWNSHIPS OF AURORA, COMMONWEALTH, FERN, FLORENCE AND HOMESTEAD) AND MARINETTE COUNTY (TOWNSHIP OF NIAGARA)).....	\$ 31.75	21.73
ELECTRICIANS: ELECTRICAL CONTRACTS OVER \$180,000 (FLORENCE COUNTY (TOWNSHIPS OF AURORA, COMMONWEALTH, FERN, FLORENCE AND HOMESTEAD) AND MARINETTE COUNTY (TOWNSHIP OF NIAGARA)).....	\$ 33.94	21.80

ELEC0242-005 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (DOUGLAS COUNTY).....	\$ 47.46	33.34

ELEC0388-002 06/01/2024		
	Rates	Fringes
ELECTRICIANS: (ADAMS, CLARK (COLBY, FREEMONT, LYNN, MAYVILLE, SHERMAN, SHERWOOD, UNITY), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (BEECHER, DUNBAR, GOODMAN & PEMBINE), MENOMINEE (AREA WEST OF A LINE 6 MILES WEST OF THE WEST BOUNDARY OF OCONTO COUNTY), ONEIDA, PORTAGE, SHAWANO (ANIWA AND HUTCHINS), VILAS AND WOOD COUNTIES).....	\$ 40.19	22.90

ELEC0430-002 06/01/2024		
	Rates	Fringes
ELECTRICIANS: (RACINE COUNTY (EXCEPT BURLINGTON TOWNSHIP)).....	\$ 48.50	26.25

ELEC0494-005 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 50.86	28.26

ELEC0494-006 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (CALUMET (TOWNSHIP OF NEW HOLSTEIN), DODGE (EAST OF HWY 26 INCLUDING CHESTER TOWNSHIP), FOND DU LAC, MANITOWOC (SCHLESWIG), AND SHEBOYGAN COUNTIES).....	\$ 45.20	25.27

ELEC0494-013 06/01/2025		
	Rates	Fringes
SOUND & COMMUNICATIONS: TECHNICIAN (DODGE (EAST OF HWY 26 INCLUDING CHESTER TWP, EXCLUDING EMMET TWP), FOND DU LAC (EXCEPT WAUPUIN), MILWAUKEE, OZAUKEE, MANITOWOC (SCHLESWIG), WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 37.13	21.58
SOUND & COMMUNICATIONS: INSTALLER (DODGE (EAST OF HWY 26 INCLUDING CHESTER TWP, EXCLUDING EMMET TWP), FOND DU LAC (EXCEPT WAUPUIN), MILWAUKEE, OZAUKEE, MANITOWOC (SCHLESWIG), WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 37.13	21.58

ELEC0577-003 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (CALUMET (EXCEPT TOWNSHIP OF NEW HOLSTEIN), GREEN LAKE (N. PART INCLUDING TOWNSHIPS OF BERLIN, ST MARIE, AND SENECA), MARQUETTE (N. PART INCLUDING TOWNSHIPS OF CRYSTAL LAKE, NESHKORO, NEWTON, AND SPRINGFIELD), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES).....	\$ 41.76	23.65

ELEC0890-003 06/01/2024		
	Rates	Fringes
ELECTRICIANS: (DODGE (EMMET TOWNSHIP ONLY), GREEN, JEFFERSON, LAFAYETTE, RACINE (BURLINGTON TOWNSHIP), ROCK AND WALWORTH COUNTIES).....	\$ 43.65	23.59

ELEC0953-001 06/02/2019		
	Rates	Fringes
LINE CONSTRUCTION: (6) GROUNDSMAN.....	\$ 26.14	14.60
LINE CONSTRUCTION: (5) LIGHT GROUNDMAN DRIVER.....	\$ 30.89	16.11
LINE CONSTRUCTION: (4) HEAVY GROUNDMAN DRIVER.....	\$ 33.27	16.88
LINE CONSTRUCTION: (3) EQUIPMENT OPERATOR).....	\$ 38.02	18.40
LINE CONSTRUCTION: (2) HEAVY EQUIPMENT OPERATOR.....	\$ 42.78	19.80
LINE CONSTRUCTION: (1) LINEMAN.....	\$ 47.53	21.43

ENGI0139-005 06/01/2025		
	Rates	Fringes
POWER EQUIPMENT OPERATOR: GROUP 6 OFF-ROAD MATERIAL HAULER WITH OR WITHOUT EJECTOR.		

HAZARDOUS WASTE PREMIUMS: EPA LEVEL "A" PROTECTION	
- \$3.00 PER HOUR EPA LEVEL "B" PROTECTION - \$2.00	
PER HOUR EPA LEVEL "C" PROTECTION - \$1.00 PER HOUR.	\$ 40.32
POWER EQUIPMENT OPERATOR: GROUP 5 AIR COMPRESSOR;	
POWER PACK; VIBRATOR HAMMER AND EXTRACTOR; HEAVY	
EQUIPMENT, LEADMAN; TANK CAR HEATERS; STUMP	
CHIPPER; CURB MACHINE OPERATOR; CONCRETE	
PROPORTIONING PLANTS; GENERATORS; MUDJACK OPERATOR;	
ROCK BREAKER; CRUSHER OR SCREENING PLANT; SCREED	
(MILLING MACHINE); AUTOMATIC BELT CONVEYOR AND	
SURGE BIN; PUG MILL OPERATOR; OILER, PUMP (OVER 3	
INCHES); DRILLING MACHINE TENDER, DAY LIGHT MACHINE	

30.30

HAZARDOUS WASTE PREMIUMS: EPA LEVEL "A" PROTECTION	
- \$3.00 PER HOUR EPA LEVEL "B" PROTECTION - \$2.00	
PER HOUR EPA LEVEL "C" PROTECTION - \$1.00 PER HOUR.	\$ 46.22
POWER EQUIPMENT OPERATOR: GROUP 4 GREASER, ROLLER	
STEEL (5 TONS OR LESS); ROLLER (PNEUMATIC TIRED) -	
SELF PROPELLED; TRACTOR (MOUNTED OR TOWED	
COMPACTORS & LIGHT EQUIPMENT); SHOULDERING MACHINE;	
SELF- PROPELLED CHIP SPREADER; CONCRETE SPREADER;	
FINISHING MACHINE; MECHANICAL FLOAT; CURING	
MACHINE; POWER SUBGRADER; JOINT SAWER (MULTIPLE	
BLADE) BELTING MACHINE; BURLAP MACHINE; TEXTURING	
MACHINE; TRACTOR ENDLOADER (RUBBER TIRED) - LIGHT;	
JEEP DIGGER; FORKLIFT; MULCHER; LAUNCH OPERATOR;	
FIREMAN, ENVIRONMENTAL BURNER	

30.30

HAZARDOUS WASTE PREMIUMS: EPA LEVEL	
"A" PROTECTION - \$3.00 PER HOUR EPA LEVEL "B"	
PROTECTION - \$2.00 PER HOUR EPA LEVEL "C"	
PROTECTION - \$1.00 PER HOUR.....	\$ 46.51
POWER EQUIPMENT OPERATOR: GROUP 3 MECHANIC OR	
WELDER - HEAVY DUTY EQUIPMENT; CRANES WITH A	
LIFTING CAPACITY OF 25 TONS OR UNDER; CONCRETE	
BREAKER (MANUAL OR REMOTE); VIBRATORY/SONIC	
CONCRETE BREAKER; CONCRETE LASER SCREED; CONCRETE	
SLIPFORM PAVER; CONCRETE BATCH PLANT OPERATOR;	
CONCRETE PVT. SPREADER - HEAVY DUTY (RUBBER TIRED);	
CONCRETE SPREADER & DISTRIBUTOR; AUTOMATIC	
SUBGRADER (CONCRETE); CONCRETE GRINDER & PLANING	
MACHINE; CONCRETE SLIPFORM CURB & GUTTER MACHINE;	
SLIPFORM CONCRETE PLACER; TUBE FINISHER; HYDRO	
BLASTER (10,000 PSI & OVER); BRIDGE PAVER; CONCRETE	
CONVEYOR SYSTEM; CONCRETE PUMP; ROTEC TYPE	
CONVEYOR; STABILIZING MIXER (SELF-PROPELLED);	
SHOULDER WIDENER; ASPHALT PLANT ENGINEER;	
BITUMINOUS PAVER; BUMP CUTTER & GROOVING MACHINE;	
MILLING MACHINE; SCREED (BITUMINOUS PAVER); ASPHALT	
HEATER, PLANER & SCARIFIER; BACKHOES (EXCAVATORS)	
WEIGHING UNDER 130,000 LBS; GRADER OR MOTOR PATROL;	
TRACTOR (SCRAPER, DOZER, PUSHER, LOADER); SCRAPER -	
RUBBER TIRED (SINGLE OR TWIN ENGINE); ENDLOADER;	
HYDRAULIC BACKHOE (TRACTOR TYPE); TRENCHING	
MACHINE; SKID RIGS; TRACTOR, SIDE BOOM (HEAVY);	
DRILLING OR BORING MACHINE (MECHANICAL HEAVY);	
ROLLER OVER 5 TONS; PERCUSSION OR ROTARY DRILLING	

30.30

MACHINE; AIR TRACK; BLASTER; LOADING MACHINE
(CONVEYOR); TUGGER; BOATMEN; WINCHES & A-FRAMES;
POST DRIVER; MATERIAL HOIST.

HAZARDOUS WASTE PREMIUMS: EPA LEVEL "A" PROTECTION
- \$3.00 PER HOUR EPA LEVEL "B" PROTECTION - \$2.00
PER HOUR EPA LEVEL "C" PROTECTION - \$1.00 PER HOUR.\$ 46.77 30.30
POWER EQUIPMENT OPERATOR GROUP 2 CRANES, TOWER
CRANES AND DERRICKS WITH OR WITHOUT ATTACHMENTS
WITH A LIFTING CAPACITY OF 100 TONS OR LESS; OR
CRANES, TOWER CRANES, AND DERRICKS WITH BOOM,
LEADS, AND/OR JIBS LENGTHS MEASURING 175 FEET OR
UNDER AND BACKHOES (EXCAVATORS) WEIGHING 130,000
LBS AND OVER; CAISSON RIGS; PILE DRIVER; DREDGE
OPERATOR; DREDGE ENGINEER; BOAT PILOT.

HAZARDOUS WASTE PREMIUMS: EPA LEVEL
"A" PROTECTION - \$3.00 PER HOUR EPA LEVEL "B"
PROTECTION - \$2.00 PER HOUR EPA LEVEL "C"
PROTECTION - \$1.00 PER HOUR.....\$ 47.87 30.30
POWER EQUIPMENT OPERATOR GROUP 1 CRANES, TOWER
CRANES, AND DERRICKS WITH OR WITHOUT ATTACHMENTS
WITH A LIFTING CAPACITY OF OVER 100 TONS; OR
CRANES, TOWER CRANES, AND DERRICKS WITH BOOM, LEADS
AND/OR JIB LENGTHS MEASURING 176 FEET OR LONGER.

HAZARDOUS WASTE PREMIUMS: EPA LEVEL "A"
PROTECTION - \$3.00 PER HOUR EPA LEVEL "B"
PROTECTION - \$2.00 PER HOUR EPA LEVEL "C"
PROTECTION - \$1.00 PER HOUR.....\$ 48.37 30.30

IRON0008-002 06/01/2025

Rates Fringes

IRONWORKER (BROWN, CALUMET, DOOR, FOND DU LAC,
KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI,
SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:)\$ 44.66 33.67

IRON0008-003 06/01/2025

Rates Fringes

IRONWORKER (KENOSHA, MILWAUKEE, OZAUKEE, RACINE,
WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA
COUNTIES)\$ 47.52 33.67

IRON0383-001 06/01/2025

Rates Fringes

IRONWORKER (ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (EXCLUDING S.E. TIP), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (NORTHERN AREA, VICINITY OF EDGERTON AND MILTON), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES).	\$ 44.00	32.66

IRON0498-005 06/01/2025		
	Rates	Fringes
IRONWORKER (GREEN (S.E. 1/3), ROCK (SOUTH OF EDGERTON AND MILTON), AND WALWORTH (S.W. 1/3) COUNTIES:)	\$ 48.74	49.65

IRON0512-008 05/01/2025		
	Rates	Fringes
IRONWORKER (BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU COUNTIES)	\$ 46.35	36.86

IRON0512-021 05/01/2025		
	Rates	Fringes
IRONWORKER (ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES)	\$ 42.89	36.86

LABO0113-002 06/02/2025		
	Rates	Fringes
LABORER: GROUP 6 FLAGPERSON; TRAFFIC CONTROL PERSON		

(MILWAUKEE AND WAUKESHA COUNTIES)	\$ 35.30	25.53
LABORER: GROUP 5 BLASTER AND POWDERMAN		

(MILWAUKEE AND WAUKESHA COUNTIES)	\$ 39.46	25.53
LABORER: GROUP 4 LINE AND GRADE SPECIALIST		

(MILWAUKEE AND WAUKESHA COUNTIES)	\$ 39.31	25.53
LABORER: GROUP 3 BITUMINOUS WORKER (RAKER AND LUTEMAN); FORMSETTER (CURB, SIDEWALK, AND PAVEMENT); STRIKE OFF MAN		

(MILWAUKEE AND WAUKESHA COUNTIES)	\$ 39.16	25.53
LABORER: GROUP 2 AIR TOOL OPERATOR; JOINT SAWER AND FILLER (PAVEMENT); VIBRATOR OR TAMPER OPERATOR (MECHANICAL HAND OPERATED); CHAIN SAW OPERATOR; DEMOLITION BURNING TORCH LABORER		

(MILWAUKEE AND WAUKESHA COUNTIES).	\$ 38.96	25.53
LABORER: GROUP 1 GENERAL LABORER; TREE TRIMMER; CONDUIT LAYER; DEMOLITION AND WRECKING LABORER; GUARD RAIL, FENCE, AND BRIDGE BUILDER; LANDSCAPER; MULTIPLATE CULVERT ASSEMBLER; STONE HANDLER; BITUMINOUS WORKER (SHOVELER, LOADER, AND UTILITY MAN); BATCH TRUCK DUMPER OR CEMENT HANDLER; BITUMINOUS WORKER (DUMPER, IRONER, SMOOTHER, AND TAMPER); CONCRETE HANDLER		

(MILWAUKEE AND WAUKESHA COUNTIES).....	\$ 38.81	25.53

LABO0113-003 06/02/2025		
	Rates	Fringes
LABORER: GROUP 6 FLAGPERSON AND TRAFFIC CONTROL PERSON		

(OZAUKEE AND WASHINGTON COUNTIES).....	\$ 35.15	25.53
LABORER: GROUP 5 BLASTER; POWDERMAN		

(OZAUKEE AND WASHINGTON COUNTIES).....	\$ 38.26	25.53
LABORER: GROUP 4 LINE AND GRADE SPECIALIST		

(OZAUKEE AND WASHINGTON COUNTIES).....	\$ 38.41	25.53
LABORER: GROUP 3 BITUMINOUS WORKER (RAKER AND LUTEMAN); FORMSETTER (CURB, SIDEWALK, AND PAVEMENT); STRIKE OFF MAN		

(OZAUKEE AND WASHINGTON COUNTIES).	\$ 38.21	25.53
LABORER: GROUP 2 AIR TOOL OPERATOR; JOINT SAWER AND FILLER (PAVEMENT); VIBRATOR OR TAMPER OPERATOR (MECHANICAL HAND OPERATED); CHAIN SAW OPERATOR; DEMOLITION BURNING TORCH LABORER		

(OZAUKEE AND WASHINGTON COUNTIES).....	\$ 38.16	25.53
LABORER: GROUP 1 GENERAL LABORER; TREE TRIMMER; CONDUIT LAYER; DEMOLITION AND WRECKING LABORER; GUARD RAIL, FENCE, AND BRIDGE BUILDER; LANDSCAPER; MULTIPLATE CULVERT ASSEMBLER; STONE HANDLER; BITUMINOUS WORKER (SHOVELER, LOADER, AND UTILITY MAN); BATCH TRUCK DUMPER OR CEMENT HANDLER; BITUMINOUS WORKER (DUMPER, IRONER, SMOOTHER, AND TAMPER); CONCRETE HANDLER		

(OZAUKEE AND WASHINGTON COUNTIES).....\$ 38.06 25.53

LABO0113-011 06/02/2025

Rates

Fringes

LABORER: GROUP 6 FLAGMAN; TRAFFIC CONTROL PERSON

(KENOSHA AND RACINE
COUNTIES).....\$ 35.02 25.53
LABORER: GROUP 5 BLASTER AND POWDERMAN

(KENOSHA AND RACINE COUNTIES).....\$ 38.52 25.53
LABORER: GROUP 4 LINE AND GRADE SPECIALIST

(KENOSHA AND
RACINE COUNTIES).....\$ 38.19 25.53
LABORER: GROUP 3 BITUMINOUS WORKER (RAKER AND
LUTEMAN); FORMSETTER (CURB, SIDEWALK, AND
PAVEMENT); STRIKE OFF MAN

(KENOSHA AND RACINE COUNTIES)...\$ 38.22 25.53
LABORER: GROUP 2 AIR TOOL OPERATOR; JOINT SAWER AND
FILLER (PAVEMENT); VIBRATOR OR TAMPER OPERATOR
(MECHANICAL HAND OPERATED); CHAIN SAW OPERATOR;
DEMOLITION BURNING TORCH LABORER

(KENOSHA AND RACINE COUNTIES).....\$ 38.02 25.53
LABORER: GROUP 1 GENERAL LABORER; TREE TRIMMER;
CONDUIT LAYER; DEMOLITION AND WRECKING LABORER;
GUARD RAIL, FENCE, AND BRIDGE BUILDER; LANDSCAPER;
MULTIPLATE CULVERT ASSEMBLER; STONE HANDLER;
BITUMINOUS WORKER (SHOVELER, LOADER, AND UTILITY
MAN); BATCH TRUCK DUMPER OR CEMENT HANDLER;
BITUMINOUS WORKER (DUMPER, IRONER, SMOOTHER, AND
TAMPER); CONCRETE HANDLER

(KENOSHA AND RACINE COUNTIES).....\$ 37.87 25.53

LABO0140-002 06/02/2025

Rates

Fringes

LABORER GROUP 6 (ADAMS, ASHLAND, BARRON, BAYFIELD,

BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CRO.....\$ 40.40	19.97
LABORER GROUP 5 (ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CRO.....\$ 43.97	19.97
LABORER GROUP 4 (ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CRO.....\$ 44.12	19.97
LABORER GROUP 3 (ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CRO.....\$ 43.92	19.97
LABORER GROUP 2 (ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CRO.....\$ 43.87	19.97
LABORER GROUP 1 (ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CRO.....\$ 43.77	19.97

LAB00464-003 06/02/2025

	Rates	Fringes
LABORER: GROUP 6 FLAGPERSON AND TRAFFIC CONTROL PERSON		
(DANE COUNTY).....\$ 40.40		19.97
LABORER: GROUP 5 BLASTER; POWDERMAN		
(DANE COUNTY).....\$ 44.25		19.97
LABORER: GROUP 4 LINE AND GRADE SPECIALIST		
(DANE COUNTY).....\$ 44.40		19.97
LABORER: GROUP 3 BITUMINOUS WORKER (RAKER AND LUTEMAN); FORMSETTER (CURB, SIDEWALK, AND PAVEMENT); STRIKE OFF MAN		
(DANE COUNTY).....\$ 44.20		19.97
LABORER: GROUP 2 AIR TOOL OPERATOR; JOINT SAWER AND FILLER (PAVEMENT); VIBRATOR OR TAMPER OPERATOR (MECHANICAL HAND OPERATED); CHAIN SAW OPERATOR; DEMOLITION BURNING TORCH LABORER		
(DANE COUNTY).....\$ 44.15		19.97
LABORER: GROUP 1 GENERAL LABORER; TREE TRIMMER; CONDUIT LAYER; DEMOLITION AND WRECKING LABORER; GUARD RAIL, FENCE, AND BRIDGE BUILDER; LANDSCAPER; MULTIPLATE CULVERT ASSEMBLER; STONE HANDLER; BITUMINOUS WORKER (SHOVELER, LOADER, AND UTILITY MAN); BATCH TRUCK DUMPER OR CEMENT HANDLER; BITUMINOUS WORKER (DUMPER, IRONER, SMOOTHER, AND TAMPER); CONCRETE HANDLER		
(DANE COUNTY).....\$ 44.05		19.97

PAIN0106-008 05/05/2025

	Rates	Fringes
PAINTERS: REPAINT: SPRAY, SANDBLAST, STEEL: ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES....\$ 37.27		27.26
PAINTERS: REPAINT: BRUSH, ROLLER: ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES.....\$ 36.67		27.26
PAINTERS: NEW: SPRAY, SANDBLAST, STEEL: ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES.....\$ 38.77		27.26
PAINTERS: NEW: BRUSH, ROLLER: ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES.....\$ 38.17		27.26

PAIN0108-002 06/01/2025		
	Rates	Fringes
PAINTERS: SPRAY & SANDBLAST (RACINE COUNTY).....	\$ 44.64	23.35
PAINTERS: BRUSH, ROLLER (RACINE COUNTY).....	\$ 43.64	23.35

PAIN0259-002 05/01/2008		
	Rates	Fringes
PAINTER (BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES).....	\$ 24.11	12.15

PAIN0259-004 05/01/2015		
	Rates	Fringes
PAINTER (BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES).....	\$ 22.03	12.45

PAIN0781-002 06/01/2025		
	Rates	Fringes
PAINTERS: SPRAY & SANDBLAST (JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 43.19	24.87
PAINTERS: BRUSH (JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 42.44	24.87
PAINTERS: BRIDGE (JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 43.19	24.87

PAIN0802-002 06/01/2025		
	Rates	Fringes
PAINTER: BRUSH (COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES).....	\$ 37.65	21.17

PAIN0802-003 06/01/2025		
	Rates	Fringes
PAINTER (ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES)...	\$ 37.65	21.17

PAIN0934-001 06/01/2025		
	Rates	Fringes
PAINTERS: STRUCTURAL STEEL (KENOSHA AND WALWORTH COUNTIES).....	\$ 40.77	26.37
PAINTERS: SPRAY (KENOSHA AND WALWORTH COUNTIES).....	\$ 41.62	26.37
PAINTERS: BRUSH (KENOSHA AND WALWORTH COUNTIES).....	\$ 40.62	26.37

PAIN1011-002 06/01/2025		
	Rates	Fringes
PAINTERS: (FLORENCE COUNTY).....	\$ 31.17	15.92

PLAS0599-002 06/01/2025		
	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER: AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES.....	\$ 42.28	26.43
CEMENT MASON/CONCRETE FINISHER, AREA F: KENOSHA AND		

RACINE COUNTIES.....	\$ 37.33	31.38
CEMENT MASON/CONCRETE FINISHER, AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES....	\$ 41.16	27.54
CEMENT MASON/CONCRETE FINISHER AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPPEALEAU, AND VERNON COUNTIES	\$ 40.06	28.65
CEMENT MASON/CONCRETE FINISHER AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES.....	\$ 47.22	31.90

TEAM0039-001 06/01/2025

	Rates	Fringes
TRUCK DRIVER 3 OR MORE AXLES; EUCLIDS, DUMPTOR & ARTICULATED, TRUCK MECHANIC.....	\$ 39.72	28.70
TRUCK DRIVER 1 & 2 AXLES.....	\$ 39.57	28.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage

determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than **◆SU◆**, **◆UAVG◆**, **◆SA◆**, or **◆SC◆** denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The **◆SU◆** identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

◆SU◆ wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The **SA** identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the **SA** identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

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State: Wisconsin

Construction Types: Heavy

Counties: Wisconsin Counties of
Adams, Ashland, Barron, Bayfield, Brown,
Buffalo, Burnett, Calumet, Chippewa,
Clark, Columbia, Crawford, Dane, Dodge,
Door, Douglas, Dunn, Eau Claire,
Florence, Fond Du Lac, Forest, Grant,
Green, Green Lake, Iowa, Iron, Jackson,
Jefferson, Juneau, Kenosha, Kewaunee, La
Crosse, Lafayette, Langlade, Lincoln,
Manitowoc, Marathon, Marinette,
Marquette, Menominee, Milwaukee, Monroe,
Oconto, Oneida, Outagamie, Ozaukee,
Pepin, Pierce, Polk, Portage, Price,
Racine, Richland, Rock, Rusk, Sauk,
Sawyer, Shawano, Sheboygan, St Croix,
Taylor, Trempealeau, Vernon, Vilas,
Walworth, Washburn, Washington,
Waukesha, Waupaca, Waushara, Winnebago
and Wood

Tunnel, Sewer & Water Line Construction Projects

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

BRWI0001-002 06/01/2025

	Rates	Fringes
BRICKLAYER (CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEALEAU, AND VERNON COUNTIES).....	\$ 40.09	28.10

BRWI0002-002 06/01/2025

	Rates	Fringes
BRICKLAYER (ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES).....	\$ 48.60	29.31

BRWI0002-005 06/01/2025

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (ADAMS, BARRON, BROWN, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, SAUK, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES).....	\$ 46.01	29.31

BRWI0003-002 06/01/2024		
	Rates	Fringes
BRICKLAYER (BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES).....	\$ 38.45	27.41

BRWI0004-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (KENOSHA, RACINE, AND WALWORTH COUNTIES)....	\$ 44.71	28.90

BRWI0006-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES).....	\$ 39.36	28.83

BRWI0007-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (GREEN, LAFAYETTE, AND ROCK COUNTIES)....	\$ 40.34	29.49

BRWI0008-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 45.72	27.42

BRWI0009-001 06/01/2024		
	Rates	Fringes
BRICKLAYER (GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES)..	\$ 38.45	27.41

BRWI0011-002 06/01/2024		
	Rates	Fringes
BRICKLAYER (CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES).....	\$ 38.45	27.41

BRWI0013-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (DANE, GRANT, IOWA, AND RICHLAND COUNTIES).....	\$ 41.17	28.66

BRWI0019-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES).....	\$ 39.50	28.69

BRWI0021-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (DODGE AND JEFFERSON COUNTIES).....	\$ 40.14	29.67

BRWI0034-002 06/01/2025		
	Rates	Fringes
BRICKLAYER (COLUMBIA AND SAUK COUNTIES).....	\$ 41.17	28.66

CARP0068-011 05/05/2025

Rates

Fringes

PILEDRIVERMAN (BURNETT (W. OF HWY 48), PIERCE (W.
OF HWY 29), POLK (W. OF HWYS 35, 48 & 65), AND ST.
CROIX (W. OF HWY 65) COUNTIES).....\$ 47.71
CARPENTER (BURNETT (W. OF HWY 48), PIERCE (W. OF
HWY 29), POLK (W. OF HWYS 35, 48 & 65), AND ST.
CROIX (W. OF HWY 65) COUNTIES).....\$ 47.57

30.98

31.17

CARP0231-002 06/01/2025

Rates

Fringes

CARPENTER (KENOSHA, MILWAUKEE, OZAUKEE, RACINE,
WASHINGTON, AND WAUKESHA COUNTIES).....\$ 45.46

31.52

CARP0310-002 06/01/2025

Rates

Fringes

PILEDRIVER (ADAMS, ASHLAND, BAYFIELD (EASTERN 2/3),
FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON,
ONEIDA, PORTAGE, PRICE, SHAWANO (WESTERN PORTION OF
THE COUNTY), TAYLOR, VILAS, AND WOOD COUNTIES).....\$ 44.43
CARPENTER (ADAMS, ASHLAND, BAYFIELD (EASTERN 2/3),
FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON,
ONEIDA, PORTAGE, PRICE, SHAWANO (WESTERN PORTION OF
THE COUNTY), TAYLOR, VILAS, AND WOOD COUNTIES).....\$ 44.43

29.95

29.95

CARP0314-001 06/02/2025

Rates

Fringes

CARPENTER: PILEDRIVERMEN (COLUMBIA, DANE, DODGE,
GRANT, GREEN, IOWA, JEFFERSON, LAFAYETTE, RICHLAND,
ROCK, SAUK, AND WALWORTH COUNTIES).....\$ 44.45

28.78

CARP0361-004 05/05/2025

Rates

Fringes

CARPENTER (BAYFIELD (WEST OF HWY 63) AND DOUGLAS
COUNTIES).....\$ 46.82

31.92

CARP0731-002 06/03/2024

Rates

Fringes

CARPENTER: PILEDRIVER (CALUMET (EASTERN PORTION OF
THE COUNTY), FOND DU LAC (EASTERN PORTION OF THE
COUNTY), MANITOWOC, AND SHEBOYGAN COUNTIES).....\$ 42.44
CARPENTER (CALUMET (EASTERN PORTION OF THE COUNTY),
FOND DU LAC (EASTERN PORTION OF THE COUNTY),
MANITOWOC, AND SHEBOYGAN COUNTIES).....\$ 42.44

28.44

28.44

CARP0955-002 06/01/2025

Rates

Fringes

PILEDRIVER (CALUMET (WESTERN PORTION OF THE
COUNTY), FOND DU LAC (WESTERN PORTION OF THE
COUNTY), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA,
WAUSHARA, AND WINNEBAGO).....\$ 44.43
CARPENTER (CALUMET (WESTERN PORTION OF THE COUNTY),
FOND DU LAC (WESTERN PORTION OF THE COUNTY), GREEN
LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND
WINNEBAGO).....\$ 44.43

29.95

29.95

CARP0955-002 06/02/2025

	Rates	Fringes
PILEDRIIVER (CALUMET (WESTERN PORTION OF THE COUNTY), FOND DU LAC (WESTERN PORTION OF THE COUNTY), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO).....	\$ 44.43	29.95
CARPENTER (CALUMET (WESTERN PORTION OF THE COUNTY), FOND DU LAC (WESTERN PORTION OF THE COUNTY), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO).....	\$ 44.43	29.95

CARP1056-002 06/01/2024

	Rates	Fringes
MILLWRIGHT (ADAMS, ASHLAND, BARRON, BAYFIELD , BROWN, BUFFALO, BURNETT ,CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. OF HWY. 29 & 65), POLK (E. OF HWY. 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK,.....	\$ 42.00	28.85

CARP1074-002 06/02/2025

	Rates	Fringes
PILEDRIIVER (BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEPIN, PIERCE (E. OF HWY. 29 & 65), POLK (E. OF HWY. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. OF HWY. 65), AND WASHBURN).....	\$ 44.43	29.95
CARPENTER (BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEPIN, PIERCE (E. OF HWY. 29 & 65), POLK (E. OF HWY. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. OF HWY. 65), AND WASHBURN).....	\$ 44.43	29.95

CARP1143-002 06/02/2025

	Rates	Fringes
PILEDRIIVER (BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEALEU AND VERNON COUNTIES).....	\$ 44.43	29.95
CARPENTER (BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEALEU AND VERNON COUNTIES).....	\$ 44.43	29.95

CARP1146-002 06/02/2025

	Rates	Fringes
PILEDRIIVER (BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (WESTERN PORTION OF THE COUNTY) COUNTIES).....	\$ 44.43	29.95
CARPENTER (BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (WESTERN PORTION OF THE COUNTY) COUNTIES).....	\$ 44.43	29.95

CARP2337-009 06/02/2025

	Rates	Fringes
PILEDRIIVERMAN (KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA).....	\$ 44.39	34.79

CARP2337-010 06/02/2025

	Rates	Fringes
MILLWRIGHT (KENOSHA, MILWAUKEE, OZAUKEE, RACINE,		

WASHINGTON, AND WAUKESHA).....\$ 44.03		32.94

ELEC0014-002 05/25/2025		
	Rates	Fringes
ELECTRICIANS: (ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (EXCEPT MARYVILLE, COLBY, UNITY, SHERMAN, FREMONT, LYNN & SHERWOOD), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN COUNTIES).....\$ 44.29		25.21

ELEC0127-002 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (KENOSHA COUNTY).....\$ 50.01		28.40

ELEC0158-002 05/25/2025		
	Rates	Fringes
ELECTRICIAN (BROWN, DOOR, KEWAUNEE, MANITOWOC (EXCEPT SCHLESWIG), MARINETTE(WAUSAUKEE AND AREA SOUTH THEREOF), OCONTO, MENOMINEE (EAST OF A INE 6 MILES WEST OF THE WEST BOUNDARY OF OCONTO COUNTY), SHAWANO (EXCEPT AREA NORTH OF TOWNSHIPS OF ANIWA AND HUTCHINS) COUNTIES).....\$ 42.00		23.93

ELEC0159-003 05/26/2024		
	Rates	Fringes
ELECTRICIAN (COLUMBIA, DANE, DODGE (AREA WEST OF HWY 26, EXCEPT CHESTER AND EMMET TOWNSHIPS), GREEN, LAKE (EXCEPT TOWNSHIPS OF BERLIN, SENECA, AND ST. MARIE), IOWA, MARQUETTE (EXCEPT TOWNSHIPS OF NESHKOKA, CRYSTAL LAKE, NEWTON, AND SPRINGFIELD), AND SAUK COUNTIES).....\$ 48.55		25.91

ELEC0219-004 06/01/2019		
	Rates	Fringes
ELECTRICIANS: ELECTRICAL CONTRACTS UNDER \$180,000 (FLORENCE COUNTY (TOWNSHIPS OF AURORA, COMMONWEALTH, FERN, FLORENCE AND HOMESTEAD) AND MARINETTE COUNTY (TOWNSHIP OF NIAGARA)).....\$ 31.75		21.73
ELECTRICIANS: ELECTRICAL CONTRACTS OVER \$180,000 (FLORENCE COUNTY (TOWNSHIPS OF AURORA, COMMONWEALTH, FERN, FLORENCE AND HOMESTEAD) AND MARINETTE COUNTY (TOWNSHIP OF NIAGARA)).....\$ 33.94		21.80

ELEC0242-005 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (DOUGLAS COUNTY).....\$ 47.46		33.34

ELEC0388-002 06/01/2024		
	Rates	Fringes
ELECTRICIANS: (ADAMS, CLARK (COLBY, FREMONT, LYNN, MAYVILLE, SHERMAN, SHERWOOD, UNITY), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (BEECHER, DUNBAR, GOODMAN & PEMBINE), MENOMINEE (AREA WEST OF A LINE 6 MILES WEST OF THE WEST BOUNDARY OF OCONTO COUNTY), ONEIDA, PORTAGE, SHAWANO (ANIWA AND HUTCHINS), VILAS AND WOOD		

COUNTIES).....	\$ 40.19	22.90

ELEC0430-002 06/01/2024		
	Rates	Fringes
ELECTRICIANS: (RACINE COUNTY (EXCEPT BURLINGTON TOWNSHIP)).....	\$ 48.50	26.25

ELEC0494-005 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....	\$ 50.86	28.26

ELEC0494-006 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (CALUMET (TOWNSHIP OF NEW HOLSTEIN), DODGE (EAST OF HWY 26 INCLUDING CHESTER TOWNSHIP), FOND DU LAC, MANITOWOC (SCHLESWIG), AND SHEBOYGAN COUNTIES).....	\$ 45.20	25.27

ELEC0577-003 06/01/2025		
	Rates	Fringes
ELECTRICIANS: (CALUMET (EXCEPT TOWNSHIP OF NEW HOLSTEIN), GREEN LAKE (N. PART INCLUDING TOWNSHIPS OF BERLIN, ST MARIE, AND SENECA), MARQUETTE (N. PART INCLUDING TOWNSHIPS OF CRYSTAL LAKE, NESHKORO, NEWTON, AND SPRINGFIELD), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES).....	\$ 41.76	23.65

ELEC0890-003 06/01/2024		
	Rates	Fringes
ELECTRICIANS: (DODGE (EMMET TOWNSHIP ONLY), GREEN, JEFFERSON, LAFAYETTE, RACINE (BURLINGTON TOWNSHIP), ROCK AND WALWORTH COUNTIES).....	\$ 43.65	23.59

ENGI0139-003 06/02/2025		
	Rates	Fringes
POWER EQUIPMENT OPERATOR: GROUP 6 SHOULDERING MACHINE OPERATOR; FARM OR INDUSTRIAL TRACTOR MOUNTED EQUIPMENT; POST HOLE DIGGER; AUGER (VERTICAL AND HORIZONTAL); SKID STEER LOADER WITH OR WITHOUT ATTACHMENTS; ROBOTIC TOOL CARRIER WITH OR WITHOUT ATTACHMENTS; POWER PACK VIBRATORY/ULTRA SOUND DRIVER AND EXTRACTOR; FIREMAN (ASPHALT PLANTS); SCREED OPERATOR; STONE CRUSHERS AND SCREENING PLANTS; AIR, ELECTRIC, HYDRAULIC JACKS (SLIP FORM); PRESTRESS MACHINES; AIR COMPRESSOR, 400 CFM OR OVER; REFRIGERATION PLANT/FREEZE MACHINE; BOILER OPERATORS (TEMPORARY HEAT); FORKLIFTS; WELDING MACHINES; GENERATORS; PUMPS OVER 3"; HEATERS, MECHANICAL; COMBINATION SMALL EQUIPMENT OPERATOR; WINCHES, SMALL ELECTRIC; OILER; GREASER; ROTARY DRILL TENDER; CONVEYOR; ELEVATOR OPERATOR. (REMAINING COUNTIES)		

HAZARDOUS WASTE PREMIUMS: EPA	
LEVEL ""A"" PROTECTION: \$3.00 PER HOUR EPA LEVEL ""B""	
PROTECTION: \$2.00 PER HOUR EPA LEVEL ""C""	
PROTECTION: \$1.00 PER HOUR.....\$ 41.60	27.89
POWER EQUIPMENT OPERATOR: GROUP 5 TRACTOR, BULLDOZER, OR ENDLOADER (UNDER 40 HP); TAMPERS -COMPACTORS, RIDING TYPE; STUMP CHIPPER, LARGE; ROLLER, RUBBER TIRE; BACKFILLER; TRENCHER, CHAIN TYPE (BUCKET UNDER 8 INCH); CONCRETE AUTO BREAKER, LARGE; CONCRETE FINISHING MACHINE (ROAD TYPE); CONCRETE BATCH HOPPER; CONCRETE CONVEYOR SYSTEMS; CONCRETE MIXERS, 14S OR OVER; PUMPS, SCREW TYPE AND GYPSUM); HYDROHAMMERS, SMALL; BROOMS AND SWEEPRs; LIFT SLAB MACHINE; ROLLER UNDER 5 TONS; INDUSTRIAL LOCOMOTIVES; FIREMAN (PILE DRIVERS AND DERRICKS); PUMPS (WELL POINTS); HOISTS, AUTOMATIC; A-FRAMES AND WINCH TRUCKS; HOISTS (TUGGERS); BOATS (TUG, SAFETY, WORK BARGES AND LAUNCHES); ASSISTANT ENGINEER.	

(REMAINING COUNTIES)

HAZARDOUS	
WASTE PREMIUMS: EPA LEVEL ""A"" PROTECTION: \$3.00	
PER HOUR EPA LEVEL ""B"" PROTECTION: \$2.00 PER HOUR	
EPA LEVEL ""C"" PROTECTION: \$1.00 PER HOUR.....\$ 43.13	27.89
POWER EQUIPMENT OPERATOR: GROUP 4 HYDRAULIC BACKHOE (TRACTOR OR TRUCK MOUNTED); HYDRAULIC CRANE, 10 TONS OR LESS; TRACTOR, BULLDOZER, OR END LOADER (OVER 40 HP); MOTOR PATROL; SCRAPER OPERATOR; BITUMINOUS PLANT AND PAVER OPERATOR; SCREED-MILLING MACHINE; ROLLER OVER 5 TONS; CONCRETE PUMPS 46 METER AND UNDER; GROUT PUMPS; ROTEC TYPE MACHINE; HYDRO BLASTER, 10,000 PSI AND OVER; ROTARY DRILL OPERATOR; PERCUSSION DRILLING MACHINE; AIR TRACK DRILL WITH OR WITHOUT INTEGRAL HAMMER; BLASTER; BORING MACHINE (VERTICAL OR HORIZONTAL); SIDE BOOM; TRENCHER, WHEEL TYPE OR CHAIN TYPE HAVING 8 INCH OR LARGER BUCKET; RAIL LEVELING MACHINE (RAILROAD); TIE PLACER; TIE EXTRACTOR; TIE TAMPER; STONE LEVELER; STRADDLE CARRIER; MATERIAL HOISTS; STACK HOIST; MAN HOISTS; MECHANIC AND WELDER; OFF ROAD MATERIAL HAULERS.	

(REMAINING
COUNTIES)

HAZARDOUS	
WASTE PREMIUMS: EPA LEVEL ""A"" PROTECTION: \$3.00	
PER HOUR EPA LEVEL ""B"" PROTECTION: \$2.00 PER HOUR	
EPA LEVEL ""C"" PROTECTION: \$1.00 PER HOUR.....\$ 45.20	27.89
POWER EQUIPMENT OPERATOR: GROUP 3 BACKHOES	

(EXCAVATORS) WEIGHING UNDER 130,000 LBS; TRAVELLING CRANE (BRIDGE TYPE); MILLING MACHINE; CONCRETE PAVER OVER 27 E; CONCRETE SPREADER AND DISTRIBUTOR; CONCRETE LASER SCREED; CONCRETE GRINDER AND PLANING MACHINE; SLIPFORM CURB AND GUTTER MACHINE; BORING MACHINE (DIRECTIONAL); DREDGE OPERATOR; SKID RIGS; OVER 46 METER CONCRETE PUMP.

(REMAINING COUNTIES)

HAZARDOUS WASTE PREMIUMS: EPA LEVEL ""A""	
PROTECTION: \$3.00 PER HOUR EPA LEVEL ""B""	
PROTECTION: \$2.00 PER HOUR EPA LEVEL ""C""	
PROTECTION: \$1.00 PER HOUR.....\$ 45.73	27.89
POWER EQUIPMENT OPERATOR: GROUP 2 BACKHOES WEIGHING 130,00 LBS AND OVER; CRANES, TOWER CRANES AND DERRICKS WITH OR WITHOUT ATTACHMENTS WITH A LIFTING CAPACITY OF 100 TONS OR LESS; CRANES, TOWER CRANES, AND DERRICKS WITH BOOM, LEADS, AND/OR JIB LENGTHS 175 FT OR LESS; CAISSON RIGS; PILE DRIVER.	

(REMAINING COUNTIES)

HAZARDOUS WASTE PREMIUMS: EPA LEVEL ""A"" PROTECTION: \$3.00 PER HOUR	
EPA LEVEL ""B"" PROTECTION: \$2.00 PER HOUR EPA LEVEL ""C"" PROTECTION: \$1.00 PER HOUR.....\$ 49.28	27.89
POWER EQUIPMENT OPERATOR: GROUP 1 CRANES, TOWER CRANES AND DERRICKS WITH OR WITHOUT ATTACHMENTS WITH A LIFTING CAPACITY OF OVER 100 TONS; CRANES, TOWER CRANES, AND DERRICKS WITH BOOM, LEADS AND/OR JIB LENGTHS 176 FT OR LONGER.	

(REMAINING COUNTIES)

HAZARDOUS WASTE PREMIUMS: EPA LEVEL ""A"" PROTECTION: \$3.00 PER HOUR EPA LEVEL ""B"" PROTECTION: \$2.00 PER HOUR EPA LEVEL ""C"" PROTECTION: \$1.00 PER HOUR.....\$ 50.53	27.89

Rates

Fringes

POWER EQUIPMENT OPERATOR: GROUP 5 HOISTS
 (AUTOMATIC); FORKLIFT, 12 FT TO 25 FT;
 TAMPER-COMPACTORS, RIDING TYPE; A-FRAME AND WINCH
 TRUCKS; CONCRETE AUTO BREAKER; HYDROHAMMER, SMALL;
 BROOMS AND SWEEPERS; HOIST (TUGGERS); STUMP
 CHIPPER, LARGE; BOATS (TUG, SAFETY, WORK BARGES AND
 LAUNCH); SHOULDERING MACHINE OPERATOR; SCREED
 OPERATOR; FARM OR INDUSTRIAL TRACTOR; POST HOLE
 DIGGER; STONE CRUSHERS AND SCREENING PLANTS;
 FIREMEN (ASPHALT PLANTS); AIR COMPRESSOR (400 CFM
 OR OVER); AUGERS (VERTICAL AND HORIZONTAL);
 GENERATORS, 150 KW AND OVER; AIR, ELECTRIC
 HYDRAULIC JACKS (SLIPFORM); PRESTRESS MACHINES;
 SKID STEER LOADER WITH OR WITHOUT ATTACHMENTS;
 BOILER OPERATORS (TEMPORARY HEAT); FORKLIFT, 12 FT
 AND UNDER; SCREED OPERATOR MILLING MACHINE;
 REFRIGERATION PLANT/FREEZE MACHINE; POWER PACK
 VIBRATORY/ULTRA SOUND DRIVER AND EXTRACTOR;
 GENERATORS UNDER 150 KW; COMBINATION SMALL
 EQUIPMENT OPERATOR; COMPRESSORS UNDER 400 CFM;
 WELDING MACHINES; HEATERS, MECHANICAL; PUMPS;
 WINCHES, SMALL ELECTRIC; OILER AND GREASER;
 CONVEYOR; HIGH PRESSURE UTILITY LOCATING MACHINE
 (DAYLIGHTING MACHINE).

(DODGE, FOND DU LAC, JEFFERSON, KENOSHA,
 MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH,
 WASHINGTON, AND WAUKESHA COUNTIES)

HAZARDOUS WASTE

PREMIUMS: EPA LEVEL "A" PROTECTION: \$3.00 PER HOUR
 EPA LEVEL "B" PROTECTION: \$2.00 PER HOUR EPA
 LEVEL "C" PROTECTION: \$1.00 PER HOUR.....\$ 43.01

28.15

POWER EQUIPMENT OPERATOR: GROUP 4 BACKFILLER;
 CONCRETE AUTO BREAKER (LARGE); CONCRETE FINISHING
 MACHINE (ROAD TYPE); ROLLER, RUBBER TIRE; CONCRETE
 BATCH HOPPER; CONCRETE CONVEYOR SYSTEM; CONCRETE
 MIXERS (14S OR OVER); SCREW TYPE PUMPS AND GYPSUM
 PUMPS; GROUT PUMPS; TRACTOR, BULLDOZER, END LOADER,
 UNDER 40 HP; PUMPS (WELL POINTS); TRENCHER (CHAIN
 TYPE 8 INCH OR SMALLER BUCKET; INDUSTRIAL
 LOCOMOTIVES; ROLLER UNDER 5 TONS; FIREMAN
 (PILEDRIERS AND DERRICKS); ROBOTIC TOOL CARRIER
 WITH OR WITHOUT ATTACHMENTS.

(DODGE, FOND DU LAC, JEFFERSON, KENOSHA,
 MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH,
 WASHINGTON, AND WAUKESHA COUNTIES)

HAZARDOUS WASTE PREMIUMS: EPA LEVEL
 "A" PROTECTION: \$3.00 PER HOUR EPA LEVEL "B"

PROTECTION: \$2.00 PER HOUR EPA LEVEL ""C""	
PROTECTION: \$1.00 PER HOUR.....\$ 44.41	28.15
POWER EQUIPMENT OPERATOR: GROUP 3 MATERIAL HOISTS; STACK HOISTS; TRACTOR OR TRUCK MOUNTED HYDRAULIC BACKHOE; TRACTOR OR TRUCK MOUNTED HYDRAULIC CRANE, 5 TONS OR UNDER; MANHOIST; TRACTOR OVER 40 HP; BULLDOZER OVER 40 HP; ENDLOADER OVER 40 HP; FORKLIFT, 25 FT AND OVER; MOTOR PATROL; SCRAPER OPERATOR; SIDEBOOM; STRADDLE CARRIER; MECHANIC AND WELDER; BITUMINOUS PLANT AND PAVER OPERATOR; ROLLER OVER 5 TONS; PERCUSSION DRILL OPERATOR; ROTARY DRILL OPERATOR; BLASTER; AIR TRACK DRILL; TRENCHER (WHEEL TYPE OR CHAIN TYPE HAVING OVER 8 INCH BUCKET); ELEVATOR; MILLING MACHINE AND BORING MACHINE (HORIZONTAL OR VERTICAL); BACKHOE MOUNTED COMPACTOR.	

(DODGE, FOND DU LAC, JEFFERSON, KENOSHA,
MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH,
WASHINGTON, AND WAUKESHA COUNTIES)

HAZARDOUS WASTE PREMIUMS: EPA LEVEL ""A""	
PROTECTION: \$3.00 PER HOUR EPA LEVEL ""B""	
PROTECTION: \$2.00 PER HOUR EPA LEVEL ""C""	
PROTECTION: \$1.00 PER HOUR.....\$ 45.46	28.15
POWER EQUIPMENT OPERATOR: GROUP 2 CRANES, TOWER CRANES AND DERRICKS WITH OR WITHOUT ATTACHMENTS WITH A LIFTING CAPACITY OF 100 TONS OR UNDER; OR CRANES, TOWER CRANES, AND DERRICKS WITH BOOM, LEAD, AND\OR JIB LENGTHS MEASURING 175 FEET OR UNDER; BACKHOES (EXCAVATORS) UNDER 130,000 LBS; SKID RIGS; DREDGE OPERATOR: TRAVELING CRANE (BRIDGE TYPE); CONCRETE PAVER OVER 27 E; CONCRETE SPREADER AND DISTRIBUTOR; CONCRETE PUMPS AND BORING MACHINES (DIRECTIONAL).	

(DODGE, FOND DU LAC, JEFFERSON, KENOSHA,
MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH,
WASHINGTON, AND WAUKESHA COUNTIES)

HAZARDOUS WASTE PREMIUMS: EPA	
LEVEL ""A"" PROTECTION: \$3.00 PER HOUR EPA LEVEL ""B""	
PROTECTION: \$2.00 PER HOUR EPA LEVEL ""C""	
PROTECTION: \$1.00 PER HOUR.....\$ 46.41	28.15
POWER EQUIPMENT OPERATOR: GROUP 1 CRANES, TOWER CRANES, AND DERRICKS WITH OR WITHOUT ATTACHMENTS, WITH A LIFTING CAPACITY OF OVER 100 TONS; OR CRANES, TOWER CRANES, AND DERRICKS WITH BOOM, LEADS, AND/OR JIB LENGTHS MEASURING 176 FEET OR LONGER; BACKHOES (EXCAVATORS) 130,000 LBS AND OVER; CAISSON RIGS AND PILE DRIVERS. (DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE,	

SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA
COUNTIES)

HAZARDOUS WASTE

PREMIUMS: EPA LEVEL "A" PROTECTION: \$3.00 PER HOUR

EPA LEVEL "B" PROTECTION: \$2.00 PER HOUR EPA

LEVEL "C" PROTECTION: \$1.00 PER HOUR.....\$ 47.19 28.15

IRON0008-002 06/01/2025

Rates

Fringes

IRONWORKER (BROWN, CALUMET, DOOR, FOND DU LAC,
KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI,
SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:)\$ 44.66

33.67

IRON0008-003 06/01/2025

Rates

Fringes

IRONWORKER (KENOSHA, MILWAUKEE, OZAUKEE, RACINE,
WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA
COUNTIES)\$ 47.52

33.67

IRON0383-001 06/01/2025

Rates

Fringes

IRONWORKER (ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE,
FLORENCE, FOREST, GRANT, GREENE, (EXCLUDING S.E.
TIP), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA
CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE,
MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK
(NORTHERN AREA, VICINITY OF EDGERTON AND MILTON),
SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES).\$ 44.00

32.66

IRON0498-005 06/01/2025

Rates

Fringes

IRONWORKER (GREEN (S.E. 1/3), ROCK (SOUTH OF
EDGERTON AND MILTON), AND WALWORTH (S.W. 1/3)
COUNTIES:)\$ 48.74

49.65

IRON0512-008 05/01/2025

Rates

Fringes

IRONWORKER (BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN,
EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST
CROIX, TAYLOR, AND TREMPLEAU COUNTIES)\$ 46.35

36.86

IRON0512-021 05/01/2025

Rates

Fringes

IRONWORKER (ASHLAND, BAYFIELD, BURNETT, DOUGLAS,
IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND
WASHBURN COUNTIES)\$ 42.89

36.86

LAB00113-004 06/01/2025

Rates

Fringes

LABORER: OPEN CUT: GROUP 9 BLASTER

(MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA
COUNTIES)\$ 45.51

24.42

LABORER: OPEN CUT: GROUP 8 CONCRETE MANHOLE

BUILDER; CAISSON WORKER; MINER; PIPE LAYER; ROCK
DRILLER AND JOINT MAN; TIMBER MAN AND CONCRETE
BRUSHER; BRACER IN TRENCH BEHIND MACHINE & TIGHT
SHEETING; CONCRETE FORMSETTER AND SHOVELER;
JACKHAMMER OPERATOR

(MILWAUKEE, OZAUKEE,
WASHINGTON, AND WAUKESHA COUNTIES).....\$ 44.78 24.42
LABORER: OPEN CUT: GROUP 7 MUCKER; FORM STRIPPER;
BOTTOM DIGGER AND MISC; BOTTOM MAN AND WELDER ON
SURFACE

(MILWAUKEE, OZAUKEE, WASHINGTON, AND
WAUKESHA COUNTIES).....\$ 41.62 24.42
LABORER: OPEN CUT: GROUP 6 MUD MIXER

(MILWAUKEE,
OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....\$ 37.29 24.42
LABORER: OPEN CUT: GROUP 5 GENERAL LABORER ON
SURFACE; TOP MAN

(MILWAUKEE, OZAUKEE, WASHINGTON, AND
WAUKESHA COUNTIES).....\$ 37.23 24.42
LABORER: OPEN CUT: GROUP 4 PAVING LABORER

(MILWAUKEE,
OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....\$ 37.05 24.42
LABORER: OPEN CUT: GROUP 3 FLAG PERSON

(MILWAUKEE,
OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....\$ 26.53 24.42
LABORER: OPEN CUT: GROUP 2 LANDSCAPER

(MILWAUKEE,
OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES).....\$ 22.54 24.42
LABORER: OPEN CUT: GROUP 1 YARD LABORER

(MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA
COUNTIES).....\$ 19.99 24.42

LAB00113-005 06/01/2025

Rates

Fringes

LABORER: SEWER, TUNNEL & UNDERGROUND: GROUP 4

PIPELAYER, MINER AND LASER OPERATOR

(KENOSHA
AND RACINE COUNTIES)

TUNNEL WORK

UNDER COMPRESSED AIR: 0-15 LBS ADD \$1.00, 15-30 LBS
ADD \$2.00, OVER 30 LBS ADD \$3.00.....\$ 40.88 24.42
LABORER: SEWER, TUNNEL & UNDERGROUND: GROUP 3:
MACHINE AND EQUIPMENT OPERATOR, SHEETING, FORM
SETTING, PATCH FINISHER, BOTTOM MAN, JOINT SAWER,
GUNNITE MAN, MANHOLE BUILDER, WELDER-TORCHMAN,
BLASTER, CAULKER, BRACER, BULL FLOAT, CONDUIT
WORKER, MUCKER AND CAR PUSHER, RAKER AND LUTEMAN,
HYDRAULIC JACKING OF SHIELDS, SHIELD DRIVERS,
MINING MACHINE, LOCK TENDERS, MUCKING MACHINE
OPERATOR, MOTOR MEN & GAUGE TENDERS AND OPERATION
OF INCIDENTAL MECHANICAL EQUIPMENT AND ALL POWER
DRIVEN TOOLS

(KENOSHA AND RACINE COUNTIES)

TUNNEL WORK UNDER

COMPRESSED AIR: 0-15 LBS ADD \$1.00, 15-30 LBS ADD
\$2.00, OVER 30 LBS ADD \$3.00.....\$ 38.89 24.42
LABORER: SEWER, TUNNEL & UNDERGROUND: GROUP 2 TOP
MAN, GENERAL LABORER, WELLPOINT INSTALLATION, WIRE
MESH AND REINFORCEMENT, CONCRETE WORKER, FORM
STRIPPER, STRIKE-OFF WORK

(KENOSHA AND RACINE
COUNTIES)

TUNNEL WORK UNDER

COMPRESSED AIR: 0-15 LBS ADD \$1.00, 15-30 LBS ADD
\$2.00, OVER 30 LBS ADD \$3.00.....\$ 34.17 24.42
LABORER: SEWER, TUNNEL & UNDERGROUND: GROUP 1
FLAGPERSON

(KENOSHA AND RACINE COUNTIES)

TUNNEL WORK UNDER
COMPRESSED AIR: 0-15 LBS ADD \$1.00, 15-30 LBS ADD
\$2.00, OVER 30 LBS ADD \$3.00.....\$ 27.49 24.42

LAB00113-008 06/01/2025

Rates

Fringes

LABORER: TUNNEL-FREE AIR: GROUP 7 BLASTER

(MILWAUKEE,
OZAUKEE, WASHINGTON & WAUKESHA COUNTIES).....\$ 45.51 24.42
LABORER: TUNNEL-FREE AIR: GROUP 6 CONCRETE MANHOLE
BUILDER; MUCKING MACHINE; MINER; MINING MACHINE;
WELDER; ROCK DRILLER; CONCRETE BUSTER; JACK HAMMER
OPERATOR; CAISSON WORKER; PIPELAYER AND JOINT MAN;
BRACERMAN

(MILWAUKEE, OZAUKEE, WASHINGTON &
WAUKESHA COUNTIES).....\$ 44.78 24.42
LABORER: TUNNEL-FREE AIR: GROUP 5 MUCKER; DINKEY;
WELDER (RATE ON SURFACE)

(MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA
COUNTIES).....\$ 41.77 24.42
LABORER: TUNNEL-FREE AIR: GROUP 4 FORM STRIPPER;
CAR PUSHER

(MILWAUKEE, OZAUKEE, WASHINGTON &
WAUKESHA COUNTIES).....\$ 41.62 24.42
LABORER: TUNNEL-FREE AIR: GROUP 3 SAW MAN; TOP MAN

(MILWAUKEE, OZAUKEE,
WASHINGTON & WAUKESHA COUNTIES).....\$ 37.29 24.42
LABORER: TUNNEL-FREE AIR: GROUP 2 GENERAL LABORER
ON SURFACE; TOWER MAN

(MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA
COUNTIES).....\$ 37.23 24.42
LABORER: TUNNEL-FREE AIR: GROUP 1 FLAGPERSON

(MILWAUKEE,
OZAUKEE, WASHINGTON & WAUKESHA COUNTIES).....\$ 26.53 24.42

LAB00113-009 06/01/2025

Rates

Fringes

LABORER: TUNNEL - *COMPRESSED AIR 0 - 15 LBS.:
GROUP 7 BLASTER

(MILWAUKEE, OZAUKEE, WASHINGTON &
WAUKESHA COUNTIES) NOTE: HAZARDOUS & TOXIC WASTE
REMOVAL: ADD \$0.15 PER HOUR.

*COMPRESSED AIR 15 - 30 LBS ADD \$2.00 TO ALL
CLASSIFICATIONS *COMPRESSED AIR OVER 30 LBS ADD
\$3.00 TO ALL CLASSIFICATIONS.....\$ 46.99 24.42

LABORER: TUNNEL - *COMPRESSED AIR 0 - 15 LBS.:
GROUP 6 MUCKING MACHINE; MINER; MINING MACHINE;
WELDER & ROCK DRILLER; LOCK TENDER IN TUNNEL;
CONCRETE BUSTER; JACK HAMMER OPERATOR; CAISSON
WORKER; PIELAYER AND JOINT MAN; BRACERMAN; NOZZLE
MAN ON GUNITE; TIMBER MAN; CONCRETE BRUSHER

(MILWAUKEE, OZAUKEE, WASHINGTON &
WAUKESHA COUNTIES)

*COMPRESSED
AIR 15 - 30 LBS ADD \$2.00 TO ALL CLASSIFICATIONS
*COMPRESSED AIR OVER 30 LBS ADD \$3.00 TO ALL
CLASSIFICATIONS.....\$ 46.30 24.42

LABORER: TUNNEL - *COMPRESSED AIR 0 - 15 LBS.:
GROUP 5 MUCKER; DINKEY

(MILWAUKEE, OZAUKEE, WASHINGTON &
WAUKESHA COUNTIES)

*COMPRESSED AIR 15 - 30 LBS ADD \$2.00 TO ALL
CLASSIFICATIONS *COMPRESSED AIR OVER 30 LBS ADD
\$3.00 TO ALL CLASSIFICATIONS.....\$ 43.27 24.42

LABORER: TUNNEL - *COMPRESSED AIR 0 - 15 LBS.:
GROUP 4 FORM STRIPPER; CAR PUSHER

(MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA

COUNTIES)

*COMPRESSED AIR
15 - 30 LBS ADD \$2.00 TO ALL CLASSIFICATIONS
*COMPRESSED AIR OVER 30 LBS ADD \$3.00 TO ALL
CLASSIFICATIONS.....\$ 43.12 24.42
LABORER: TUNNEL - *COMPRESSED AIR 0 - 15 LBS.:
GROUP 3 LOCK TENDER ON SURFACE

(MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA
COUNTIES)

*COMPRESSED AIR 15 - 30 LBS ADD
\$2.00 TO ALL CLASSIFICATIONS *COMPRESSED AIR OVER
30 LBS ADD \$3.00 TO ALL CLASSIFICATIONS.....\$ 42.22 24.42
LABORER: TUNNEL - *COMPRESSED AIR 0 - 15 LBS.:
GROUP 2 GENERAL LABORER ON SURFACE

(MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA
COUNTIES)

*COMPRESSED AIR 15 - 30 LBS ADD \$2.00
TO ALL CLASSIFICATIONS *COMPRESSED AIR OVER 30 LBS
ADD \$3.00 TO ALL CLASSIFICATIONS.....\$ 37.23 24.42
LABORER: TUNNEL - *COMPRESSED AIR 0 - 15 LBS.:
GROUP 1 FLAGPERSON

(MILWAUKEE, OZAUKEE,
WASHINGTON & WAUKESHA COUNTIES)

*COMPRESSED AIR 15 - 30 LBS ADD \$2.00 TO
ALL CLASSIFICATIONS *COMPRESSED AIR OVER 30 LBS
ADD \$3.00 TO ALL CLASSIFICATIONS.....\$ 26.53 24.42

LAB00140-005 06/01/2025

Rates

Fringes

LABORER, SEWER & WATER: GROUP 4 (ADAMS,
ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU
CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN,
GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU,
KEWAUNEE, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE, MARQUETTE,
MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE,

PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMM.....	\$ 39.78	19.97
LABORER, SEWER & WATER: GROUP 3 (ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMM.....		
	\$ 39.13	19.97
LABORER, SEWER & WATER: GROUP 2 (ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMM.....		
	\$ 38.83	19.97
LABORER, SEWER & WATER: GROUP 1 (ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMM.....		
	\$ 36.98	19.97

LAB00464-002 06/01/2025

Rates

Fringes

LABORER: GROUP 4 PIPELAYER, MINER, AND LASER
OPERATOR

(DANE AND
DOUGLAS COUNTIES)

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 LBS ADD \$1.00, 15- 30 LBS ADD \$2.00, OVER 30 LBS ADD \$3.00.....	\$ 40.03	19.97
LABORER: GROUP 3 SHEETING FORMSETTING; PATCH FINISHER; BOTTOM MAN; JOINT SAWER; GUNNITE MAN; MANHOLE BUILDER; WELDER; TORCHMAN; BLASTER; CAULKER BRACER; BULL FLOAT; MUCKER AND CAR PUSHER; RAKER AND LUTEMAN; HYDRAULIC JACKING OF SHIELDS, SHIELD		

DIRVERS; MINING MACHINE; LOCK TENDERS; MUCKING
MACHINE OPERATORS; MOTOR MEN AND GAUGE TENDERS;
POWER TOOL OPERATORS

(DANE AND DOUGLAS COUNTIES)

FOR ALL TUNNEL WORK
UNDER COMPRESSED AIR: 0 - 15 LBS ADD \$1.00, 15- 30
LBS ADD \$2.00, OVER 30 LBS ADD \$3.00.....\$ 39.38 19.97
LABORER: GROUP 2 GENERAL LABORER; WELLPOINT
INSTALLATION; CONCRETE WORKER; FORM STRIPPER;
STRIKE OFF WORKER

(DANE AND DOUGLAS COUNTIES)

FOR ALL TUNNEL WORK UNDER COMPRESSED
AIR: 0 - 15 LBS ADD \$1.00, 15- 30 LBS ADD \$2.00,
OVER 30 LBS ADD \$3.00.....\$ 39.08 19.97
LABORER: GROUP 1 FLAGPERSON

(DANE AND DOUGLAS COUNTIES)

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15
LBS ADD \$1.00, 15- 30 LBS ADD \$2.00, OVER 30 LBS
ADD \$3.00.....\$ 36.88 19.97

LAB01091-010 06/01/2025

Rates

Fringes

LABORER: SEWER & WATER: GROUP 4 PIPELAYER, MINER,
AND LASER OPERATOR

(BAYFIELD, BURNETT, IRON, SAWYER,
AND WASHBURN COUNTIES)

	FOR	
ALL TUNNEL WORK UNDER COMPRESSED AIR:	0 - 15 LBS	
ADD \$1.00, 15-30 LBS ADD \$2.00, OVER 30 LBS ADD		
\$3.00.....	\$ 39.68	19.97
LABORER: SEWER & WATER: GROUP 3 SHEETING		
FORMSETTING; PATCH FINISHER; BOTTOM MAN; JOINT		
SAWER; GUNNITE MAN; MANHOLE BUILDER; WELDER;		
TORCHMAN; BLASTER; CAULKER BRACER; BULL FLOAT;		
MUCKER AND CAR PUSHER; RAKER AND LUTEMAN; HYDRAULIC		
JACKING OF SHIELDS, SHIELD DIRVERS; MINING MACHINE;		
LOCK TENDERS; MUCKING MACHINE OPERATORS; MOTOR MEN		
AND GAUGE TENDERS; POWER TOOL OPERATORS		

(BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN
COUNTIES)

	FOR ALL	
TUNNEL WORK UNDER COMPRESSED AIR:	0 - 15 LBS ADD	
\$1.00, 15-30 LBS ADD \$2.00, OVER 30 LBS ADD \$3.00...	\$ 39.03	19.97
LABORER: SEWER & WATER: GROUP 2 LABORERS, WELLPOINT		
INSTALLATION; FORM STRIPPER; STRIKE OFF WORKER		

(BAYFIELD, BURNETT,
IRON, SAWYER, AND WASHBURN COUNTIES)

	FOR ALL TUNNEL WORK UNDER COMPRESSED	
AIR:	0 - 15 LBS ADD \$1.00, 15-30 LBS ADD \$2.00,	
OVER 30 LBS ADD \$3.00.....	\$ 38.73	19.97
LABORER: SEWER & WATER: GROUP 1 FLAGPERSON		

(BAYFIELD, BURNETT, IRON,
SAWYER, AND WASHBURN COUNTIES)

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:	0 -	
15 LBS ADD \$1.00, 15-30 LBS ADD \$2.00, OVER 30 LBS		
ADD \$3.00.....	\$ 36.67	19.97

PLAS0599-002 06/01/2025

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER: AREA D: MILWAUKEE,		
OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES.....	\$ 42.28	26.43
CEMENT MASON/CONCRETE FINISHER, AREA F: KENOSHA AND		
RACINE COUNTIES.....	\$ 37.33	31.38
CEMENT MASON/CONCRETE FINISHER, AREA E: DANE,		
GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES....	\$ 41.16	27.54
CEMENT MASON/CONCRETE FINISHER AREA C: BUFFALO,		
CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE,		

MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES	\$ 40.06	28.65
CEMENT MASON/CONCRETE FINISHER AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES.....	\$ 47.22	31.90

TEAM0039-001 06/01/2025

	Rates	Fringes
TRUCK DRIVER 3 OR MORE AXLES; EUCLIDS, DUMPTOR & ARTICULATED, TRUCK MECHANIC.....	\$ 39.72	28.70
TRUCK DRIVER 1 & 2 AXLES.....	\$ 39.57	28.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than **❖SU❖**, **❖UAVG❖**, **❖SA❖**, or **❖SC❖** denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The **❖SU❖** identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

❖SU❖ wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The **❖SA❖** identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the

state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ♦SA♦ identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

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NOTICE TO BIDDERS WAGE RATE DECISION

The wage rate decision of the Department of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Department of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate.

If a project includes multiple types of construction (highway, bridge over navigable water, sanitary sewer and water main, building) and there is not a separate wage determination for this type of work included in the proposal, use the wage determination that is in the proposal.

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least \$1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0105 Clearing	31.000 STA	_____.	_____.
0004	201.0205 Grubbing	55.000 STA	_____.	_____.
0006	203.0100 Removing Small Pipe Culverts	4.000 EACH	_____.	_____.
0008	203.0220 Removing Structure (structure) 01. Retaining Wall	2.000 EACH	_____.	_____.
0010	203.0260 Removing Structure Over Waterway Minimal Debris (structure) 01. B-13-385	1.000 EACH	_____.	_____.
0012	204.0100 Removing Concrete Pavement	39,900.000 SY	_____.	_____.
0014	204.0150 Removing Curb & Gutter	6,763.000 LF	_____.	_____.
0016	204.0155 Removing Concrete Sidewalk	1,445.000 SY	_____.	_____.
0018	204.0165 Removing Guardrail	545.000 LF	_____.	_____.
0020	204.0170 Removing Fence	1,105.000 LF	_____.	_____.
0022	204.0180 Removing Delineators and Markers	75.000 EACH	_____.	_____.
0024	204.0185 Removing Masonry	2.000 CY	_____.	_____.
0026	204.0195 Removing Concrete Bases	54.000 EACH	_____.	_____.
0028	204.0210 Removing Manholes	17.000 EACH	_____.	_____.
0030	204.0220 Removing Inlets	53.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.0231 Removing Building (station) 01. 856+29 'SB'	1.000 EACH	_____.	_____.
0034	204.0245 Removing Storm Sewer (size) 01. 12-Inch	414.000 LF	_____.	_____.
0036	204.0245 Removing Storm Sewer (size) 02. 15-Inch	575.000 LF	_____.	_____.
0038	204.0245 Removing Storm Sewer (size) 03. 18-Inch	564.000 LF	_____.	_____.
0040	204.0245 Removing Storm Sewer (size) 04. 24-Inch	2,368.000 LF	_____.	_____.
0042	204.0245 Removing Storm Sewer (size) 05. 24x38-Inch	175.000 LF	_____.	_____.
0044	204.0245 Removing Storm Sewer (size) 06. 30-Inch	292.000 LF	_____.	_____.
0046	204.0245 Removing Storm Sewer (size) 07. 36-Inch	639.000 LF	_____.	_____.
0048	204.0245 Removing Storm Sewer (size) 08. 72-Inch	177.000 LF	_____.	_____.
0050	204.0280 Sealing Pipes	3.000 EACH	_____.	_____.
0052	204.0291.S Abandoning Sewer 01. Discontinued Sewer	28.000 CY	_____.	_____.
0054	204.9060.S Removing (item description) 01. Flashing Beacon Assembly	2.000 EACH	_____.	_____.
0056	204.9060.S Removing (item description) 02. Boulder	1.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0058	204.9060.S Removing (item description) 03. Street Light Pole Assembly	21.000 EACH	_____.	_____.
0060	204.9090.S Removing (item description) 01. Modular Block Retaining Wall	95.000 LF	_____.	_____.
0062	204.9090.S Removing (item description) 02. Stone Retaining Wall	65.000 LF	_____.	_____.
0064	205.0100 Excavation Common	67,810.000 CY	_____.	_____.
0066	206.1001 Excavation for Structures Bridges (structure) 01. B-13-907	1.000 EACH	_____.	_____.
0068	206.3001 Excavation for Structures Retaining Walls (structure) 01. R-13-379	1.000 EACH	_____.	_____.
0070	206.3001 Excavation for Structures Retaining Walls (structure) 02. R-13-380	1.000 EACH	_____.	_____.
0072	206.3001 Excavation for Structures Retaining Walls (structure) 03. R-13-381	1.000 EACH	_____.	_____.
0074	206.3001 Excavation for Structures Retaining Walls (structure) 04. R-13-382	1.000 EACH	_____.	_____.
0076	206.3001 Excavation for Structures Retaining Walls (structure) 05. R-13-383	1.000 EACH	_____.	_____.
0078	206.3001 Excavation for Structures Retaining Walls (structure) 06. R-13-384	1.000 EACH	_____.	_____.
0080	206.3001 Excavation for Structures Retaining Walls (structure) 07. R-13-385	1.000 EACH	_____.	_____.
0082	206.5001 Cofferdams (structure) 01. B-13-907	1.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0084	206.5001 Cofferdams (structure) 02. Dunn Sanitary Sewer	1.000 EACH	_____.	_____.
0086	209.0200.S Backfill Controlled Low Strength	20.000 CY	_____.	_____.
0088	210.1500 Backfill Structure Type A	4,783.000 TON	_____.	_____.
0090	213.0100 Finishing Roadway (project) 01. 5845-16-76	1.000 EACH	_____.	_____.
0092	305.0110 Base Aggregate Dense 3/4-Inch	515.000 TON	_____.	_____.
0094	305.0120 Base Aggregate Dense 1 1/4-Inch	37,350.000 TON	_____.	_____.
0096	305.0130 Base Aggregate Dense 3-Inch	750.000 TON	_____.	_____.
0098	310.0115 Base Aggregate Open-Graded	192.000 CY	_____.	_____.
0100	312.0110 Select Crushed Material	55,800.000 TON	_____.	_____.
0102	405.0100 Coloring Concrete WisDOT Red	140.000 CY	_____.	_____.
0104	405.1000 Stamping Colored Concrete	540.000 CY	_____.	_____.
0106	415.0080 Concrete Pavement 8-Inch	39,725.000 SY	_____.	_____.
0108	415.0210 Concrete Pavement Gaps	14.000 EACH	_____.	_____.
0110	415.0410 Concrete Pavement Approach Slab	163.000 SY	_____.	_____.
0112	415.1080 Concrete Pavement HES 8-Inch	670.000 SY	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0114	415.2010 Concrete Truck Apron 12-Inch	420.000 SY	_____.	_____.
0116	415.4100 Concrete Pavement Joint Filling	40,395.000 SY	_____.	_____.
0118	415.6000.S Rout and Seal	1,225.000 LF	_____.	_____.
0120	416.0610 Drilled Tie Bars	288.000 EACH	_____.	_____.
0122	416.0620 Drilled Dowel Bars	86.000 EACH	_____.	_____.
0124	416.1725 Concrete Pavement Replacement SHES	775.000 SY	_____.	_____.
0126	450.4000 HMA Cold Weather Paving	425.000 TON	_____.	_____.
0128	455.0605 Tack Coat	200.000 GAL	_____.	_____.
0130	460.2000 Incentive Density HMA Pavement	740.000 DOL	1.00000	740.00
0132	460.6224 HMA Pavement 4 MT 58-28 S	1,150.000 TON	_____.	_____.
0134	465.0105 Asphaltic Surface	310.000 TON	_____.	_____.
0136	465.0120 Asphaltic Surface Driveways and Field Entrances	430.000 TON	_____.	_____.
0138	465.0125 Asphaltic Surface Temporary	2,160.000 TON	_____.	_____.
0140	465.0310 Asphaltic Curb	3,680.000 LF	_____.	_____.
0142	465.0315 Asphaltic Flumes	34.000 SY	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0144	495.1000.S Cold Patch	20.000 TON	_____.	_____.
0146	502.0100 Concrete Masonry Bridges	1,167.000 CY	_____.	_____.
0148	502.0110.S Concrete Masonry Soldier Pile Footings	644.000 CY	_____.	_____.
0150	502.3200 Protective Surface Treatment	1,604.000 SY	_____.	_____.
0152	502.3210 Pigmented Surface Sealer	703.000 SY	_____.	_____.
0154	503.0137 Prestressed Girder Type I 36W-Inch	1,330.000 LF	_____.	_____.
0156	504.0500 Concrete Masonry Retaining Walls	575.000 CY	_____.	_____.
0158	504.0900 Concrete Masonry Endwalls	3.150 CY	_____.	_____.
0160	504.2000.S Precast Concrete Box Culvert (ft X ft) 01. 4 FT X 6 FT	169.000 LF	_____.	_____.
0162	505.0400 Bar Steel Reinforcement HS Structures	48,970.000 LB	_____.	_____.
0164	505.0600 Bar Steel Reinforcement HS Coated Structures	165,050.000 LB	_____.	_____.
0166	505.0800.S Bar Steel Reinforcement HS Stainless Structures	2,750.000 LB	_____.	_____.
0168	506.0605 Structural Steel HS	383,000.000 LB	_____.	_____.
0170	506.2605 Bearing Pads Elastomeric Non-Laminated	28.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0172	506.4000 Steel Diaphragms (structure) 01. B-13-907	26.000 EACH	_____.	_____.
0174	509.5100.S Polymer Overlay	2,101.000 SY	_____.	_____.
0176	512.0500 Piling Steel Sheet Permanent Delivered	8,299.000 SF	_____.	_____.
0178	513.7016 Railing Steel Type C3	1,372.000 LF	_____.	_____.
0180	513.8016 Railing Steel Pedestrian Type C3	734.000 LF	_____.	_____.
0182	516.0500 Rubberized Membrane Waterproofing	104.000 SY	_____.	_____.
0184	517.0601 Painting Epoxy System (structure) 01. R-13-379	1.000 EACH	_____.	_____.
0186	517.0601 Painting Epoxy System (structure) 02. R-13-380	1.000 EACH	_____.	_____.
0188	517.0601 Painting Epoxy System (structure) 03. R-13-381	1.000 EACH	_____.	_____.
0190	517.0601 Painting Epoxy System (structure) 04. R-13-382	1.000 EACH	_____.	_____.
0192	517.1010.S Concrete Staining (structure) 01. R-13-379	4,305.000 SF	_____.	_____.
0194	517.1010.S Concrete Staining (structure) 02. R-13-380	2,202.000 SF	_____.	_____.
0196	517.1010.S Concrete Staining (structure) 03. R-13-381	1,611.000 SF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0198	517.1010.S Concrete Staining (structure) 04. R-13-382	4,508.000 SF	_____.	_____.
0200	517.1010.S Concrete Staining (structure) 05. R-13-383	185.000 SF	_____.	_____.
0202	517.1010.S Concrete Staining (structure) 06. R-13-384	62.000 SF	_____.	_____.
0204	517.1010.S Concrete Staining (structure) 07. R-13-15	7,890.000 SF	_____.	_____.
0206	517.1050.S Architectural Surface Treatment (structure) 01. R-13-379	2,312.000 SF	_____.	_____.
0208	517.1050.S Architectural Surface Treatment (structure) 02. R-13-380	1,289.000 SF	_____.	_____.
0210	517.1050.S Architectural Surface Treatment (structure) 03. R-13-381	1,325.000 SF	_____.	_____.
0212	517.1050.S Architectural Surface Treatment (structure) 04. R-13-382	2,172.000 SF	_____.	_____.
0214	517.1050.S Architectural Surface Treatment (structure) 05. R-13-383	182.000 SF	_____.	_____.
0216	517.1050.S Architectural Surface Treatment (structure) 06. R-13-384	127.000 SF	_____.	_____.
0218	520.2024 Culvert Pipe Temporary 24-Inch	190.000 LF	_____.	_____.
0220	520.2036 Culvert Pipe Temporary 36-Inch	175.000 LF	_____.	_____.
0222	520.8000 Concrete Collars for Pipe	5.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0224	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	5.000 EACH	_____.	_____.
0226	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	2.000 EACH	_____.	_____.
0228	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	1.000 EACH	_____.	_____.
0230	522.2429 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	355.000 LF	_____.	_____.
0232	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	6.000 EACH	_____.	_____.
0234	522.2634 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	2.000 EACH	_____.	_____.
0236	522.2638 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	1.000 EACH	_____.	_____.
0238	524.0624 Apron Endwalls for Culvert Pipe Salvaged 24-Inch	1.000 EACH	_____.	_____.
0240	531.2036 Drilling Shaft 36-Inch	40.000 LF	_____.	_____.
0242	531.2042 Drilling Shaft 42-Inch	36.000 LF	_____.	_____.
0244	531.5130 Foundation Single-Shaft Type MC-III (structure) 01. S-13-0610	1.000 EACH	_____.	_____.
0246	531.5320 Foundation Single-Shaft Type TC-II (structure) 01. S-13-0609	1.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0248	531.5420 Foundation Single-Shaft Type TF-II (structure) 01. S-13-0611	2.000 EACH	_____.	_____.
0250	532.5130 Monotube Cantilever Type III (structure) 01. S-13-0610	1.000 EACH	_____.	_____.
0252	532.5320 Truss Cantilever 2-Chord Type II (structure) 01. S-13-0609	1.000 EACH	_____.	_____.
0254	532.5420 Truss Full Span 2-Chord Type II (structure) 01. S-13-0611	1.000 EACH	_____.	_____.
0256	542.1000.S Precast Panels for Soldier Pile Walls	5,708.000 SF	_____.	_____.
0258	550.0500 Pile Points	72.000 EACH	_____.	_____.
0260	550.1100 Piling Steel HP 10-Inch X 42 Lb	2,260.000 LF	_____.	_____.
0262	601.0405 Concrete Curb & Gutter 18-Inch Type A	680.000 LF	_____.	_____.
0264	601.0409 Concrete Curb & Gutter 30-Inch Type A	18,935.000 LF	_____.	_____.
0266	601.0411 Concrete Curb & Gutter 30-Inch Type D	2,290.000 LF	_____.	_____.
0268	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	1,125.000 LF	_____.	_____.
0270	601.0581 Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type R	350.000 LF	_____.	_____.
0272	601.0590 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	50.000 LF	_____.	_____.
0274	601.0600 Concrete Curb Pedestrian	1,075.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0276	602.0405 Concrete Sidewalk 4-Inch	36,115.000 SF	_____.	_____.
0278	602.0410 Concrete Sidewalk 5-Inch	76,615.000 SF	_____.	_____.
0280	602.0515 Curb Ramp Detectable Warning Field Natural Patina	674.000 SF	_____.	_____.
0282	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	197.700 SF	_____.	_____.
0284	602.0810 Concrete Driveway 6-Inch	80.000 SY	_____.	_____.
0286	602.0860 Concrete Driveway HES 6-Inch	740.000 SY	_____.	_____.
0288	603.1156 Concrete Barrier Type S56	450.000 LF	_____.	_____.
0290	603.8000 Concrete Barrier Temporary Precast Delivered	905.000 LF	_____.	_____.
0292	603.8125 Concrete Barrier Temporary Precast Installed	905.000 LF	_____.	_____.
0294	606.0200 Riprap Medium	405.000 CY	_____.	_____.
0296	606.0300 Riprap Heavy	95.000 CY	_____.	_____.
0298	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	1,033.000 LF	_____.	_____.
0300	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	204.000 LF	_____.	_____.
0302	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	165.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0304	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	1,057.000 LF	_____.	_____.
0306	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	303.000 LF	_____.	_____.
0308	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	196.000 LF	_____.	_____.
0310	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	1,009.000 LF	_____.	_____.
0312	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	106.000 LF	_____.	_____.
0314	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	125.000 LF	_____.	_____.
0316	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	811.000 LF	_____.	_____.
0318	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	143.000 LF	_____.	_____.
0320	608.0442 Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	321.000 LF	_____.	_____.
0322	608.2338 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	465.000 LF	_____.	_____.
0324	608.2424 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	368.000 LF	_____.	_____.
0326	608.2434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	151.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0328	608.6012 Storm Sewer Pipe Composite 12-Inch	36.000 LF	_____.	_____.
0330	611.0420 Reconstructing Manholes	2.000 EACH	_____.	_____.
0332	611.0530 Manhole Covers Type J	32.000 EACH	_____.	_____.
0334	611.0545 Manhole Covers Type L	5.000 EACH	_____.	_____.
0336	611.0610 Inlet Covers Type BW	3.000 EACH	_____.	_____.
0338	611.0613 Inlet Covers Type DW	1.000 EACH	_____.	_____.
0340	611.0624 Inlet Covers Type H	57.000 EACH	_____.	_____.
0342	611.0627 Inlet Covers Type HM	4.000 EACH	_____.	_____.
0344	611.0639 Inlet Covers Type H-S	45.000 EACH	_____.	_____.
0346	611.0642 Inlet Covers Type MS	1.000 EACH	_____.	_____.
0348	611.0645 Inlet Covers Type MS-A	6.000 EACH	_____.	_____.
0350	611.0652 Inlet Covers Type T	2.000 EACH	_____.	_____.
0352	611.1230 Catch Basins 2x3-FT	37.000 EACH	_____.	_____.
0354	611.2004 Manholes 4-FT Diameter	10.000 EACH	_____.	_____.
0356	611.2005 Manholes 5-FT Diameter	14.000 EACH	_____.	_____.
0358	611.2006 Manholes 6-FT Diameter	7.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0360	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.	_____.
0362	611.2008 Manholes 8-FT Diameter	6.000 EACH	_____.	_____.
0364	611.2009 Manholes 9-FT Diameter	2.000 EACH	_____.	_____.
0366	611.3004 Inlets 4-FT Diameter	32.000 EACH	_____.	_____.
0368	611.3225 Inlets 2x2.5-FT	2.000 EACH	_____.	_____.
0370	611.3230 Inlets 2x3-FT	36.000 EACH	_____.	_____.
0372	611.3901 Inlets Median 1 Grate	1.000 EACH	_____.	_____.
0374	611.3902 Inlets Median 2 Grate	3.000 EACH	_____.	_____.
0376	611.8120.S Cover Plates Temporary	45.000 EACH	_____.	_____.
0378	611.9850.S Pipe Grates (size) 01. 24-Inch	2.000 EACH	_____.	_____.
0380	611.9850.S Pipe Grates (size) 02. 36-Inch	1.000 EACH	_____.	_____.
0382	611.9850.S Pipe Grates (size) 03. 29x45-Inch	6.000 EACH	_____.	_____.
0384	611.9850.S Pipe Grates (size) 04. 34x53-Inch	2.000 EACH	_____.	_____.
0386	611.9850.S Pipe Grates (size) 05. 38x60-Inch	1.000 EACH	_____.	_____.
0388	612.0106 Pipe Underdrain 6-Inch	4,775.000 LF	_____.	_____.
0390	612.0406 Pipe Underdrain Wrapped 6-Inch	1,694.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0392	614.0150 Anchor Assemblies for Steel Plate Beam Guard	1.000 EACH	_____.	_____.
0394	614.0905 Crash Cushions Temporary	1.000 EACH	_____.	_____.
0396	614.2300 MGS Guardrail 3	87.500 LF	_____.	_____.
0398	614.2500 MGS Thrie Beam Transition	39.400 LF	_____.	_____.
0400	614.2610 MGS Guardrail Terminal EAT	1.000 EACH	_____.	_____.
0402	614.2620 MGS Guardrail Terminal Type 2	1.000 EACH	_____.	_____.
0404	616.0406 Fence Chain Link Salvaged 6-FT	18.000 LF	_____.	_____.
0406	616.0700.S Fence Safety	1,500.000 LF	_____.	_____.
0408	618.0100 Maintenance and Repair of Haul Roads (project) 01. 5845-16-76	1.000 EACH	_____.	_____.
0410	619.1000 Mobilization	1.000 EACH	_____.	_____.
0412	620.0300 Concrete Median Sloped Nose	1,865.000 SF	_____.	_____.
0414	624.0100 Water	825.000 MGAL	_____.	_____.
0416	625.0500 Salvaged Topsoil	41,550.000 SY	_____.	_____.
0418	628.1504 Silt Fence	6,000.000 LF	_____.	_____.
0420	628.1520 Silt Fence Maintenance	6,000.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0422	628.1550 Silt Screen	50.000 LF	_____.	_____.
0424	628.1905 Mobilizations Erosion Control	24.000 EACH	_____.	_____.
0426	628.1910 Mobilizations Emergency Erosion Control	16.000 EACH	_____.	_____.
0428	628.2004 Erosion Mat Class I Type B	23,500.000 SY	_____.	_____.
0430	628.2006 Erosion Mat Urban Class I Type A	16,150.000 SY	_____.	_____.
0432	628.2008 Erosion Mat Urban Class I Type B	1,900.000 SY	_____.	_____.
0434	628.6005 Turbidity Barriers	470.000 SY	_____.	_____.
0436	628.7005 Inlet Protection Type A	125.000 EACH	_____.	_____.
0438	628.7015 Inlet Protection Type C	154.000 EACH	_____.	_____.
0440	628.7020 Inlet Protection Type D	33.000 EACH	_____.	_____.
0442	628.7504 Temporary Ditch Checks	60.000 LF	_____.	_____.
0444	628.7555 Culvert Pipe Checks	50.000 EACH	_____.	_____.
0446	628.7560 Tracking Pads	4.000 EACH	_____.	_____.
0448	628.7570 Rock Bags	205.000 EACH	_____.	_____.
0450	629.0210 Fertilizer Type B	29.000 CWT	_____.	_____.
0452	630.0140 Seeding Mixture No. 40	1,565.000 LB	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0454	630.0200 Seeding Temporary	1,175.000 LB	_____.	_____.
0456	630.0500 Seed Water	2,400.000 MGAL	_____.	_____.
0458	632.0201 Shrubs (species, root, size) 01. Vancouver Jade Kinnikinnick, 24" Sprd., #3 Cont.	28.000 EACH	_____.	_____.
0460	632.0201 Shrubs (species, root, size) 02. Creeping Juniper, 24" Sprd., #3 Cont.	21.000 EACH	_____.	_____.
0462	632.0201 Shrubs (species, root, size) 03. Gro-Low Fragrant Sumac, 24" Sprd., #5 Cont.	11.000 EACH	_____.	_____.
0464	632.9101 Landscape Planting Surveillance and Care Cycles	10.000 EACH	_____.	_____.
0466	633.5200 Markers Culvert End	17.000 EACH	_____.	_____.
0468	634.0612 Posts Wood 4x6-Inch X 12-FT	12.000 EACH	_____.	_____.
0470	634.0614 Posts Wood 4x6-Inch X 14-FT	83.000 EACH	_____.	_____.
0472	634.0616 Posts Wood 4x6-Inch X 16-FT	13.000 EACH	_____.	_____.
0474	634.0805 Posts Tubular Steel 2x2-Inch X 5-FT	1.000 EACH	_____.	_____.
0476	634.0809 Posts Tubular Steel 2x2-Inch X 9.5-FT	3.000 EACH	_____.	_____.
0478	634.0812 Posts Tubular Steel 2x2-Inch X 12-FT	7.000 EACH	_____.	_____.
0480	634.0814 Posts Tubular Steel 2x2-Inch X 14-FT	21.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0482	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	2.000 EACH	_____.	_____.
0484	636.0050.S Foundation Drilling (diameter) 01. 30-Inch Diameter	2,803.000 LF	_____.	_____.
0486	636.0050.S Foundation Drilling (diameter) 02. 42-Inch Diameter	370.000 LF	_____.	_____.
0488	637.1220 Signs Type I Reflective SH	209.000 SF	_____.	_____.
0490	637.2210 Signs Type II Reflective H	966.070 SF	_____.	_____.
0492	637.2215 Signs Type II Reflective H Folding	52.220 SF	_____.	_____.
0494	637.2230 Signs Type II Reflective F	163.250 SF	_____.	_____.
0496	638.2102 Moving Signs Type II	35.000 EACH	_____.	_____.
0498	638.2602 Removing Signs Type II	95.000 EACH	_____.	_____.
0500	638.3000 Removing Small Sign Supports	80.000 EACH	_____.	_____.
0502	638.4000 Moving Small Sign Supports	5.000 EACH	_____.	_____.
0504	643.0300 Traffic Control Drums	251,000.000 DAY	_____.	_____.
0506	643.0420 Traffic Control Barricades Type III	65,500.000 DAY	_____.	_____.
0508	643.0500 Traffic Control Flexible Tubular Marker Posts	50.000 EACH	_____.	_____.
0510	643.0600 Traffic Control Flexible Tubular Marker Bases	50.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0512	643.0705 Traffic Control Warning Lights Type A	131,000.000 DAY	_____.	_____.
0514	643.0715 Traffic Control Warning Lights Type C	46,500.000 DAY	_____.	_____.
0516	643.0810 Traffic Control Connected Arrow Boards	950.000 DAY	_____.	_____.
0518	643.0900 Traffic Control Signs	100,000.000 DAY	_____.	_____.
0520	643.0920 Traffic Control Covering Signs Type II	4.000 EACH	_____.	_____.
0522	643.1000 Traffic Control Signs Fixed Message	52.000 SF	_____.	_____.
0524	643.1050 Traffic Control Signs PCMS	1,600.000 DAY	_____.	_____.
0526	643.3170 Temporary Marking Line Epoxy 6-Inch	11,000.000 LF	_____.	_____.
0528	643.3180 Temporary Marking Line Removable Tape 6-Inch	107,000.000 LF	_____.	_____.
0530	643.3270 Temporary Marking Line Epoxy 10-Inch	800.000 LF	_____.	_____.
0532	643.3280 Temporary Marking Line Removable Tape 10-Inch	6,300.000 LF	_____.	_____.
0534	643.3320 Temporary Marking Crosswalk Epoxy 6-inch	50.000 LF	_____.	_____.
0536	643.3350 Temporary Marking Crosswalk Removable Tape 6-Inch	2,300.000 LF	_____.	_____.
0538	643.3520 Temporary Marking Arrow Epoxy	5.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0540	643.3550 Temporary Marking Arrow Removable Tape	35.000 EACH	_____.	_____.
0542	643.3620 Temporary Marking Word Epoxy	2.000 EACH	_____.	_____.
0544	643.3650 Temporary Marking Word Removable Tape	5.000 EACH	_____.	_____.
0546	643.3850 Temporary Marking Stop Line Removable Tape 18-Inch	1,300.000 LF	_____.	_____.
0548	643.3960 Temporary Marking Removable Mask Out Tape 6-Inch	1,500.000 LF	_____.	_____.
0550	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0552	644.1410 Temporary Pedestrian Surface Asphalt	6,000.000 SF	_____.	_____.
0554	644.1430 Temporary Pedestrian Surface Plate	300.000 SF	_____.	_____.
0556	644.1440 Temporary Pedestrian Surface Matting	1,500.000 SF	_____.	_____.
0558	644.1601 Temporary Pedestrian Curb Ramp	2,000.000 DAY	_____.	_____.
0560	644.1605 Temporary Pedestrian Detectable Warning Field	1,500.000 SF	_____.	_____.
0562	644.1810 Temporary Pedestrian Barricade	8,500.000 LF	_____.	_____.
0564	644.1900.S Temporary Audible Message Devices	6,000.000 DAY	_____.	_____.
0566	645.0105 Geotextile Type C	789.000 SY	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0568	645.0111 Geotextile Type DF Schedule A	4,563.000 SY	_____.	_____.
0570	645.0120 Geotextile Type HR	555.000 SY	_____.	_____.
0572	645.0140 Geotextile Type SAS	11.000 SY	_____.	_____.
0574	645.0220 Geogrid Type SR	9,255.000 SY	_____.	_____.
0576	646.2020 Marking Line Epoxy 6-Inch	6,500.000 LF	_____.	_____.
0578	646.2025 Marking Line Grooved Black Epoxy 6-Inch	2,890.000 LF	_____.	_____.
0580	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	25,110.000 LF	_____.	_____.
0582	646.4020 Marking Line Epoxy 10-Inch	220.000 LF	_____.	_____.
0584	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	3,915.000 LF	_____.	_____.
0586	646.5020 Marking Arrow Epoxy	55.000 EACH	_____.	_____.
0588	646.5120 Marking Word Epoxy	3.000 EACH	_____.	_____.
0590	646.5220 Marking Symbol Epoxy	7.000 EACH	_____.	_____.
0592	646.6120 Marking Stop Line Epoxy 18-Inch	275.000 LF	_____.	_____.
0594	646.6320 Marking Dotted Extension Epoxy 18-Inch	90.000 LF	_____.	_____.
0596	646.7120 Marking Diagonal Epoxy 12-Inch	200.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0598	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,700.000 LF	_____.	_____.
0600	646.7520 Marking Crosswalk Epoxy Block Style 24-Inch	230.000 LF	_____.	_____.
0602	646.8120 Marking Curb Epoxy	150.000 LF	_____.	_____.
0604	646.8220 Marking Island Nose Epoxy	15.000 EACH	_____.	_____.
0606	646.8320 Marking Parking Stall Epoxy	1,165.000 LF	_____.	_____.
0608	646.9000 Marking Removal Line 4-Inch	16,000.000 LF	_____.	_____.
0610	646.9002 Marking Removal Line 6-Inch	950.000 LF	_____.	_____.
0612	646.9100 Marking Removal Line 8-Inch	1,150.000 LF	_____.	_____.
0614	646.9200 Marking Removal Line Wide	350.000 LF	_____.	_____.
0616	646.9300 Marking Removal Special Marking	20.000 EACH	_____.	_____.
0618	650.4000 Construction Staking Storm Sewer	169.000 EACH	_____.	_____.
0620	650.4500 Construction Staking Subgrade	22,246.000 LF	_____.	_____.
0622	650.5000 Construction Staking Base	10,860.000 LF	_____.	_____.
0624	650.5500 Construction Staking Curb Gutter and Curb & Gutter	2,887.000 LF	_____.	_____.
0626	650.6000 Construction Staking Pipe Culverts	5.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0628	650.6501 Construction Staking Structure Layout (structure) 01. B-13-907	1.000 EACH	_____.	_____.
0630	650.6501 Construction Staking Structure Layout (structure) 02. R-13-379	1.000 EACH	_____.	_____.
0632	650.6501 Construction Staking Structure Layout (structure) 03. R-13-380	1.000 EACH	_____.	_____.
0634	650.6501 Construction Staking Structure Layout (structure) 04. R-13-381	1.000 EACH	_____.	_____.
0636	650.6501 Construction Staking Structure Layout (structure) 05. R-13-382	1.000 EACH	_____.	_____.
0638	650.6501 Construction Staking Structure Layout (structure) 06. R-13-383	1.000 EACH	_____.	_____.
0640	650.6501 Construction Staking Structure Layout (structure) 07. R-13-384	1.000 EACH	_____.	_____.
0642	650.6501 Construction Staking Structure Layout (structure) 08. R-13-385	1.000 EACH	_____.	_____.
0644	650.6501 Construction Staking Structure Layout (structure) 09. S-13-0609	1.000 EACH	_____.	_____.
0646	650.6501 Construction Staking Structure Layout (structure) 10. S-13-0610	1.000 EACH	_____.	_____.
0648	650.6501 Construction Staking Structure Layout (structure) 11. S-13-0611	1.000 EACH	_____.	_____.
0650	650.7000 Construction Staking Concrete Pavement	11,386.000 LF	_____.	_____.
0652	650.7500 Construction Staking Concrete Barrier	450.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0654	650.8501 Construction Staking Electrical Installations (project) 01. 5845-16-76	1.000 EACH	_____.	_____.
0656	650.9000 Construction Staking Curb Ramps	36.000 EACH	_____.	_____.
0658	650.9500 Construction Staking Sidewalk (project) 01. 5845-16-76	1.000 EACH	_____.	_____.
0660	650.9911 Construction Staking Supplemental Control (project) 01. 5845-16-76	1.000 EACH	_____.	_____.
0662	650.9920 Construction Staking Slope Stakes	17,333.000 LF	_____.	_____.
0664	652.0220 Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	288.000 LF	_____.	_____.
0666	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	7,339.000 LF	_____.	_____.
0668	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	346.000 LF	_____.	_____.
0670	652.0325 Conduit Rigid Nonmetallic Schedule 80 2-Inch	1,022.000 LF	_____.	_____.
0672	652.0605 Conduit Special 2-Inch	490.000 LF	_____.	_____.
0674	652.0615 Conduit Special 3-Inch	746.000 LF	_____.	_____.
0676	652.0800 Conduit Loop Detector	1,068.000 LF	_____.	_____.
0678	653.0154 Pull Boxes Non-Conductive 24x36-Inch	2.000 EACH	_____.	_____.
0680	653.0164 Pull Boxes Non-Conductive 24x42-Inch	36.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0682	653.0208 Junction Boxes 8x8x8-Inch	2.000 EACH	_____.	_____.
0684	653.0905 Removing Pull Boxes	30.000 EACH	_____.	_____.
0686	654.0101 Concrete Bases Type 1	8.000 EACH	_____.	_____.
0688	654.0102 Concrete Bases Type 2	24.000 EACH	_____.	_____.
0690	654.0105 Concrete Bases Type 5	13.000 EACH	_____.	_____.
0692	654.0110 Concrete Bases Type 10	3.000 EACH	_____.	_____.
0694	654.0120 Concrete Bases Type 10-Special	1.000 EACH	_____.	_____.
0696	654.0217 Concrete Control Cabinet Bases Type 9 Special	1.000 EACH	_____.	_____.
0698	654.0224 Concrete Control Cabinet Bases Type L24	2.000 EACH	_____.	_____.
0700	654.0230 Concrete Control Cabinet Bases Type L30	2.000 EACH	_____.	_____.
0702	655.0210 Cable Traffic Signal 3-14 AWG	120.000 LF	_____.	_____.
0704	655.0230 Cable Traffic Signal 5-14 AWG	613.000 LF	_____.	_____.
0706	655.0240 Cable Traffic Signal 7-14 AWG	965.000 LF	_____.	_____.
0708	655.0260 Cable Traffic Signal 12-14 AWG	1,834.000 LF	_____.	_____.
0710	655.0270 Cable Traffic Signal 15-14 AWG	149.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0712	655.0305 Cable Type UF 2-12 AWG Grounded	1,330.000 LF	_____.	_____.
0714	655.0515 Electrical Wire Traffic Signals 10 AWG	2,350.000 LF	_____.	_____.
0716	655.0610 Electrical Wire Lighting 12 AWG	10,333.000 LF	_____.	_____.
0718	655.0620 Electrical Wire Lighting 8 AWG	5,909.000 LF	_____.	_____.
0720	655.0625 Electrical Wire Lighting 6 AWG	30,604.000 LF	_____.	_____.
0722	655.0700 Loop Detector Lead In Cable	5,187.000 LF	_____.	_____.
0724	655.0800 Loop Detector Wire	5,454.000 LF	_____.	_____.
0726	655.0900 Traffic Signal EVP Detector Cable	504.000 LF	_____.	_____.
0728	656.0201 Electrical Service Meter Breaker Pedestal (location) 01. STA. 13+22.41 'RAB', 62.9' RT	1.000 EACH	_____.	_____.
0730	656.0201 Electrical Service Meter Breaker Pedestal (location) 02. STA. 50+52.70 'UPO', 24.8' LT	1.000 EACH	_____.	_____.
0732	656.0201 Electrical Service Meter Breaker Pedestal (location) 03. STA. 874+57.61 'SB', 45.50' LT	1.000 EACH	_____.	_____.
0734	656.0201 Electrical Service Meter Breaker Pedestal (location) 04. STA. 873+57.00 'SB', 48.60' LT	1.000 EACH	_____.	_____.
0736	657.0100 Pedestal Bases	8.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0738	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	15.000 EACH	_____.	_____.
0740	657.0310 Poles Type 3	2.000 EACH	_____.	_____.
0742	657.0322 Poles Type 5-Aluminum	13.000 EACH	_____.	_____.
0744	657.0345 Poles Type 9	1.000 EACH	_____.	_____.
0746	657.0350 Poles Type 10	2.000 EACH	_____.	_____.
0748	657.0352 Poles Type 10-Special	1.000 EACH	_____.	_____.
0750	657.0420 Traffic Signal Standards Aluminum 13-FT	2.000 EACH	_____.	_____.
0752	657.0425 Traffic Signal Standards Aluminum 15-FT	3.000 EACH	_____.	_____.
0754	657.0430 Traffic Signal Standards Aluminum 10-FT	3.000 EACH	_____.	_____.
0756	657.0520 Monotube Arms 20-FT	1.000 EACH	_____.	_____.
0758	657.0530 Monotube Arms 30-FT	2.000 EACH	_____.	_____.
0760	657.0536 Monotube Arms 35-FT-Special	1.000 EACH	_____.	_____.
0762	657.0585 Trombone Arms 15-FT	2.000 EACH	_____.	_____.
0764	657.0614 Luminaire Arms Single Member 4-Inch Clamp 8-FT	4.000 EACH	_____.	_____.
0766	657.0615 Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	2.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0768	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	11.000 EACH	_____.	_____.
0770	657.0812 Luminaire Arms Steel 12-FT	4.000 EACH	_____.	_____.
0772	658.0173 Traffic Signal Face 3S 12-Inch	12.000 EACH	_____.	_____.
0774	658.0174 Traffic Signal Face 4S 12-Inch	4.000 EACH	_____.	_____.
0776	658.0175 Traffic Signal Face 5S 12-Inch	2.000 EACH	_____.	_____.
0778	658.0416 Pedestrian Signal Face 16-Inch	8.000 EACH	_____.	_____.
0780	658.0500 Pedestrian Push Buttons	8.000 EACH	_____.	_____.
0782	658.5070 Signal Mounting Hardware (location) 01. USH 51 & Farwell Street	1.000 EACH	_____.	_____.
0784	659.1125 Luminaires Utility LED C	21.000 EACH	_____.	_____.
0786	659.1205 Luminaires Underdeck LED A	4.000 EACH	_____.	_____.
0788	659.2124 Lighting Control Cabinets 120/240 24-Inch	1.000 EACH	_____.	_____.
0790	659.2130 Lighting Control Cabinets 120/240 30-Inch	2.000 EACH	_____.	_____.
0792	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	69.000 EACH	_____.	_____.
0794	661.0201 Temporary Traffic Signals for Intersections (location) 01. USH 51 & Farwell Street	1.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0796	661.0201 Temporary Traffic Signals for Intersections (location) 02. USH 51 & Larson Beach Road	1.000 EACH	_____.	_____.
0798	690.0150 Sawing Asphalt	3,080.000 LF	_____.	_____.
0800	690.0250 Sawing Concrete	9,200.000 LF	_____.	_____.
0802	715.0502 Incentive Strength Concrete Structures	11,800.000 DOL	1.00000	11,800.00
0804	715.0603 Incentive Strength Concrete Barrier	225.000 DOL	1.00000	225.00
0806	715.0720 Incentive Compressive Strength Concrete Pavement	12,295.000 DOL	1.00000	12,295.00
0808	740.0440 Incentive IRI Ride	8,600.000 DOL	1.00000	8,600.00
0810	999.1001.S Seismograph (project) 01. 5845-16-76	1.000 EACH	_____.	_____.
0812	999.1501.S Crack and Damage Survey	1.000 EACH	_____.	_____.
0814	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	2,100.000 HRS	5.00000	10,500.00
0816	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	6,480.000 HRS	5.00000	32,400.00
0818	SPV.0035 Special 001. Decomposed Granite Paving	16.000 CY	_____.	_____.
0820	SPV.0035 Special 002. Planting Mixture	138.000 CY	_____.	_____.
0822	SPV.0060 Special 001. Mailbox Removal and Temporary Mailboxes	3.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0824	SPV.0060 Special 002. Remove Traffic Signal Equipment (USH 51 & Farwell Street)	1.000 EACH	_____.	_____.
0826	SPV.0060 Special 003. Remove Traffic Signal Equipment (USH 51 & Larson Beach Road)	1.000 EACH	_____.	_____.
0828	SPV.0060 Special 004. Storm Sewer Tap	5.000 EACH	_____.	_____.
0830	SPV.0060 Special 005. Manholes 10-FT x 10-FT Special	2.000 EACH	_____.	_____.
0832	SPV.0060 Special 006. Construction Staking Roundabout	1.000 EACH	_____.	_____.
0834	SPV.0060 Special 007. Concrete Pipe Support	3.000 EACH	_____.	_____.
0836	SPV.0060 Special 008. Temporary Inlets 2x3-FT	4.000 EACH	_____.	_____.
0838	SPV.0060 Special 009. Inlet Covers Flat Temporary	30.000 EACH	_____.	_____.
0840	SPV.0060 Special 010. Salvage Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	12.000 EACH	_____.	_____.
0842	SPV.0060 Special 011. Verify Landmark Reference Monuments	1.000 EACH	_____.	_____.
0844	SPV.0060 Special 012. Utility Line Opening (ULO)	30.000 EACH	_____.	_____.
0846	SPV.0060 Special 013. Rectangular Rapid Flashing Beacon (RRFB) Single Light Bar System	10.000 EACH	_____.	_____.
0848	SPV.0060 Special 014. Rectangular Rapid Flashing Beacon (RRFB) Double Light Bar System	1.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0850	SPV.0060 Special 015. Traffic Signal Equipment (USH 51 & Farwell Street), Black Finish	1.000 EACH	_____.	_____.
0852	SPV.0060 Special 016. Lighting Unit, Black Finish	13.000 EACH	_____.	_____.
0854	SPV.0060 Special 017. Rectangular Rapid Flashing Beacon (RRFB) Unit, Black Finish	11.000 EACH	_____.	_____.
0856	SPV.0060 Special 018. Perennials, Millenium Onion, Container, #1	25.000 EACH	_____.	_____.
0858	SPV.0060 Special 019. Perennials, Butterfly Milkweed, Container, #1	31.000 EACH	_____.	_____.
0860	SPV.0060 Special 020. Perennials, Blanketflower, Container, #1	20.000 EACH	_____.	_____.
0862	SPV.0060 Special 021. Perennials, May Night Meadow Sage, Container, #1	35.000 EACH	_____.	_____.
0864	SPV.0060 Special 022. Perennials, Autumn Joy Sedum, Container, #1	27.000 EACH	_____.	_____.
0866	SPV.0060 Special 023. Perennials, Side Oats Grama, Container, #1	35.000 EACH	_____.	_____.
0868	SPV.0060 Special 024. Perennials, Switchgrass, Container, #1	17.000 EACH	_____.	_____.
0870	SPV.0060 Special 025. Perennials, Little Bluestem, Container, #1	19.000 EACH	_____.	_____.
0872	SPV.0060 Special 026. Bulbs, Violet Beauty Ornamental Onion, Bare Root, Bulb	34.000 EACH	_____.	_____.
0874	SPV.0060 Special 027. Bulbs, Dutch Master Daffodil, Bare Root, Bulb	19.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0876	SPV.0060 Special 028. Bulbs, Las Vegas Daffodil, Bare Root, Bulb	30.000 EACH	_____.	_____.
0878	SPV.0060 Special 029. Bulbs, Mount Hood Daffodil, Bare Root, Bulb	22.000 EACH	_____.	_____.
0880	SPV.0060 Special 030. Remove, Salvage and Reinstall Tree Grates	6.000 EACH	_____.	_____.
0882	SPV.0060 Special 031. Remove and Salvage Tree Grates	6.000 EACH	_____.	_____.
0884	SPV.0060 Special 032. Lighting Unit Type Special 1	19.000 EACH	_____.	_____.
0886	SPV.0060 Special 033. Install Lighting Unit	3.000 EACH	_____.	_____.
0888	SPV.0060 Special 034. Install Lighting Control Cabinet	1.000 EACH	_____.	_____.
0890	SPV.0060 Special 035. Salvage Lighting Unit	3.000 EACH	_____.	_____.
0892	SPV.0060 Special 036. Salvage Lighting Control Cabinet	1.000 EACH	_____.	_____.
0894	SPV.0060 Special 037. Temporary Pipe Connection 12-Inch	1.000 EACH	_____.	_____.
0896	SPV.0060 Special 038. Temporary Pipe Connection 15-Inch	2.000 EACH	_____.	_____.
0898	SPV.0060 Special 039. Temporary Pipe Connection 18-Inch	1.000 EACH	_____.	_____.
0900	SPV.0060 Special 040. Temporary Pipe Connection 24-Inch	1.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0902	SPV.0060 Special 041. Temporary Pipe Connection 36-Inch	3.000 EACH	_____.	_____.
0904	SPV.0060 Special 042. Temporary Pipe Connection 48-Inch	1.000 EACH	_____.	_____.
0906	SPV.0060 Special 043. Storm Sewer Plug 12-Inch	5.000 EACH	_____.	_____.
0908	SPV.0060 Special 044. Storm Sewer Plug 24-Inch	1.000 EACH	_____.	_____.
0910	SPV.0060 Special 045. Storm Sewer Plug 29X45-Inch	4.000 EACH	_____.	_____.
0912	SPV.0060 Special 046. Storm Sewer Plug 34X53-Inch	2.000 EACH	_____.	_____.
0914	SPV.0060 Special 047. Storm Sewer Plug 38X60-Inch	2.000 EACH	_____.	_____.
0916	SPV.0060 Special 048. Retroreflective Backplate 3S	6.000 EACH	_____.	_____.
0918	SPV.0060 Special 049. Retroreflective Backplate 4S	4.000 EACH	_____.	_____.
0920	SPV.0060 Special 050. Underwater Substructure Inspection	7.000 EACH	_____.	_____.
0922	SPV.0060 Special 051. Settlement Monitoring	1.000 EACH	_____.	_____.
0924	SPV.0060 Special 052. Field Office Special	1.000 EACH	_____.	_____.
0926	SPV.0060 Special 053. Construction Staking Staging	1.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0928	SPV.0060 Special 201. Existing Sanitary Sewer Reconnection	3.000 EACH	_____.	_____.
0930	SPV.0060 Special 202. Discontinue Existing Sanitary Manhole	2.000 EACH	_____.	_____.
0932	SPV.0060 Special 203. Sanitary Manhole Casting	4.000 EACH	_____.	_____.
0934	SPV.0060 Special 204. Existing Water Main Reconnections	8.000 EACH	_____.	_____.
0936	SPV.0060 Special 205. Existing Water Valve Box Adjustment	21.000 EACH	_____.	_____.
0938	SPV.0060 Special 206. Utility Crossing Water Main Insulation	11.000 EACH	_____.	_____.
0940	SPV.0060 Special 207. New Hydrants	5.000 EACH	_____.	_____.
0942	SPV.0060 Special 208. Existing Hydrant Removals	8.000 EACH	_____.	_____.
0944	SPV.0060 Special 209. 6" Valves and Boxes	5.000 EACH	_____.	_____.
0946	SPV.0060 Special 210. Water Main Offset	4.000 EACH	_____.	_____.
0948	SPV.0060 Special 211. Temporary Sewer Bypassing and Connections	1.000 EACH	_____.	_____.
0950	SPV.0060 Special 301. Reconstruction/Adjust Manhole	3.000 EACH	_____.	_____.
0952	SPV.0060 Special 302. Manhole Covers Type J-Special	12.000 EACH	_____.	_____.
0954	SPV.0060 Special 303. Manhole Rehabilitation	6.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0956	SPV.0060 Special 304. Manhole Liner	11.000 EACH	_____.	_____.
0958	SPV.0060 Special 305. Manhole Coating Repair	1.000 EACH	_____.	_____.
0960	SPV.0060 Special 306. Junction Chamber Liner	1.000 EACH	_____.	_____.
0962	SPV.0060 Special 307. Sanitary Interceptor Manhole 72-Inch	3.000 EACH	_____.	_____.
0964	SPV.0060 Special 308. Doghouse Manhole 09-106A	1.000 EACH	_____.	_____.
0966	SPV.0060 Special 309. Junction Chamber 09-108A	1.000 EACH	_____.	_____.
0968	SPV.0060 Special 310. Dewatering - MMSD Structure 09-108A	1.000 EACH	_____.	_____.
0970	SPV.0060 Special 311. Dewatering - MMSD Interceptor	1.000 EACH	_____.	_____.
0972	SPV.0060 Special 312. Bypass Pumping - MMSD Structure 09-108A	1.000 EACH	_____.	_____.
0974	SPV.0060 Special 313. Bypass Pumping - MMSD Structure 09-106A	1.000 EACH	_____.	_____.
0976	SPV.0060 Special 314. Remove and Abandon Manhole 09-107	1.000 EACH	_____.	_____.
0978	SPV.0060 Special 315. Remove Structure 09-108	1.000 EACH	_____.	_____.
0980	SPV.0060 Special 316. Connect to Existing Interceptor Sewer - McFarland	1.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0982	SPV.0060 Special 317. Connect to Existing Interceptor and Benching MH09-106A	1.000 EACH	_____.	_____.
0984	SPV.0060 Special 318. Replace Adjustment Rings	8.000 EACH	_____.	_____.
0986	SPV.0060 Special 319. Adjust Manhole Rim	12.000 EACH	_____.	_____.
0988	SPV.0060 Special 320. MMSD Structure Staking	1.000 EACH	_____.	_____.
0990	SPV.0060 Special 321. MMSD Interceptor Staking	1.000 EACH	_____.	_____.
0992	SPV.0060 Special 401. Pipe Pile Supports	43.000 EACH	_____.	_____.
0994	SPV.0060 Special 402. Sanitary Manholes 4-Ft Diameter	1.000 EACH	_____.	_____.
0996	SPV.0060 Special 403. Sanitary Manholes 4-Ft Diameter Pile Supported	1.000 EACH	_____.	_____.
0998	SPV.0060 Special 404. Manhole Frame	2.000 EACH	_____.	_____.
1000	SPV.0060 Special 405. Manhole Cover	2.000 EACH	_____.	_____.
1002	SPV.0060 Special 406. Connection to Manhole MH 09-108A MMSD	1.000 EACH	_____.	_____.
1004	SPV.0060 Special 407. Connect to Existing Sanitary Main	1.000 EACH	_____.	_____.
1006	SPV.0060 Special 408. Construction Staking Sanitary Sewer	1.000 EACH	_____.	_____.
1008	SPV.0060 Special 409. Sanitary Sewer Main Bypass Pumping for Town of Dunn Sanitary District No. 3	1.000 EACH	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1010	SPV.0060 Special 410. Reconstruct Sanitary Manhole 4-FT Diameter	1.000 EACH	_____.	_____.
1012	SPV.0060 Special 501. Kegonsa Sanitary District Force Main Bypass Pumping and Hauling	1.000 EACH	_____.	_____.
1014	SPV.0060 Special 502. Connect to Existing Force Main	1.000 EACH	_____.	_____.
1016	SPV.0060 Special 503. Connect to MMSD Structure	1.000 EACH	_____.	_____.
1018	SPV.0060 Special 504. Remove Existing Manhole	1.000 EACH	_____.	_____.
1020	SPV.0060 Special 505. Abandon Existing Forcemain	1.000 EACH	_____.	_____.
1022	SPV.0060 Special 506. Remove Existing Forcemain	1.000 EACH	_____.	_____.
1024	SPV.0060 Special 507. Construction Staking Force Main	1.000 EACH	_____.	_____.
1026	SPV.0090 Special 001. Concrete Curb & Gutter 24-Inch Type A Special	80.000 LF	_____.	_____.
1028	SPV.0090 Special 002. Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV38x60	605.000 LF	_____.	_____.
1030	SPV.0090 Special 003. Remove Existing Steel Piling	55.000 LF	_____.	_____.
1032	SPV.0090 Special 004. Metal Edging	224.000 LF	_____.	_____.
1034	SPV.0090 Special 005. Security Fence	30.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1036	SPV.0090 Special 201. Discontinue Existing 8" Sanitary Sewer	186.000 LF	_____.	_____.
1038	SPV.0090 Special 202. 12" Sanitary Sewer, PVC	82.000 LF	_____.	_____.
1040	SPV.0090 Special 203. 8" Sanitary Sewer, PVC	78.000 LF	_____.	_____.
1042	SPV.0090 Special 204. 6" Water Main, Ductile Iron	50.000 LF	_____.	_____.
1044	SPV.0090 Special 205. 10" Water Main, Ductile Iron	35.000 LF	_____.	_____.
1046	SPV.0090 Special 301. Sanitary Sewer 18-Inch	12.000 LF	_____.	_____.
1048	SPV.0090 Special 302. Sanitary Interceptor Sewer 30-Inch	433.000 LF	_____.	_____.
1050	SPV.0090 Special 303. Trench Backfill	445.000 LF	_____.	_____.
1052	SPV.0090 Special 304. Abandon Existing Sanitary Sewer	456.000 LF	_____.	_____.
1054	SPV.0090 Special 305. Remove Existing Sanitary Sewer	36.000 LF	_____.	_____.
1056	SPV.0090 Special 306. Televiser Sanitary Interceptor	445.000 LF	_____.	_____.
1058	SPV.0090 Special 401. Remove Existing Sanitary Main	110.000 LF	_____.	_____.
1060	SPV.0090 Special 402. Ductile Iron Sanitary Sewer 18-Inch	148.000 LF	_____.	_____.
1062	SPV.0090 Special 403. Ductile Iron Sanitary Sewer 18-Inch With Ball and Socket Joints	397.000 LF	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90**Federal ID(s):** WISC 2026377, N/A, N/A, N/A, N/A**SECTION:** 0001

Contract Items

Alt Set ID:**Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1064	SPV.0090 Special 501. Sanitary Sewer Force Main, 10-Inch (C900 PVC)	824.000 LF	_____.	_____.
1066	SPV.0090 Special 502. Sanitary Sewer Force Main, 10-Inch (DR11 HDPE)	421.000 LF	_____.	_____.
1068	SPV.0165 Special 001. Hardscape - Stone "M"	280.000 SF	_____.	_____.
1070	SPV.0165 Special 002. Soil Separation Fabric	2,660.000 SF	_____.	_____.
1072	SPV.0165 Special 003. Concrete Sidewalk 5-Inch, Special	3,235.000 SF	_____.	_____.
1074	SPV.0165 Special 004. Cut-Stone Boulders	448.000 SF	_____.	_____.
1076	SPV.0165 Special 005. Wall Concrete Panel Mechanically Stabilized Earth R-13-379	887.000 SF	_____.	_____.
1078	SPV.0165 Special 006. Wall Concrete Panel Mechanically Stabilized Earth R-13-382	1,070.000 SF	_____.	_____.
1080	SPV.0165 Special 007. Piling Steel Sheet Permanent Installed R-13-383	1,842.000 SF	_____.	_____.
1082	SPV.0165 Special 008. Piling Steel Sheet Permanent Installed R-13-384	1,817.000 SF	_____.	_____.
1084	SPV.0165 Special 009. Piling Steel Sheet Permanent Installed R-13-385	4,640.000 SF	_____.	_____.
1086	SPV.0165 Special 301. Geoweb Access Cells	1,600.000 SF	_____.	_____.
1088	SPV.0170 Special 001. Pavement Cleanup Project 5845-16-76	120.000 STA	_____.	_____.



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Proposal ID: 20260714002 **Project(s):** 5845-16-76, 5845-16-78, 5845-16-87, 5845-16-89, 5845-16-90

Federal ID(s): WISC 2026377, N/A, N/A, N/A, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1090	SPV.0195 Special 001. Excavation, Hauling, and Disposal of Contaminated Soil and Groundwater	600.000 TON	_____.	_____.
1092	SPV.0200 Special 201. Standard Sanitary Manhole Masonry 48-Inch Diameter	9.000 VF	_____.	_____.
1094	SPV.0200 Special 202. Drop Sanitary Manhole Masonry 48-Inch Diameter	6.640 VF	_____.	_____.
1096	SPV.0200 Special 203. Construct New Drop Connection to Existing Manhole	1.300 VF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

PLEASE ATTACH ADDENDA HERE